

Undergraduate Catalog 2025-2026

Villanova University



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General Information

The University campus is situated in Villanova, Pennsylvania, on Lancaster Pike (U.S. Route 30) six miles west of City Line Avenue in Philadelphia, Pennsylvania. The post office address is 800 Lancaster Avenue, Villanova, Pennsylvania 19085-1699. University offices are open Monday through Friday from 9 a.m. to 5 p.m. The telephone number is 610-519-4500. The Web address is www.villanova.edu.

Prospective students may obtain additional information by contacting the Director of Admissions, Villanova University, 800 Lancaster Avenue, Villanova, Pennsylvania 19085-1699, tel. 610-519-4000, email: gotovu@villanova.edu.

Villanova University is an affirmative action institution, and it is the continuing policy of Villanova not to discriminate against any person on the basis of race, color, sex, sexual orientation and gender identity, religion, national origin, age, veteran status, non-job-related disability or any other basis prohibited by law.

NOTE: In order that programs offered by Villanova University reflect current advances and additions to knowledge and upgraded professional requirements, Villanova University reserves the right to change programs and requirements without prior notice. Students generally are bound to the requirements in effect and published on the world wide web for the year in which their class begins its first year of study. Special requirements may be in effect for students who have left the University and are being readmitted.

Students are advised to check with the web catalog or with their college offices regarding changes that may affect them. Additional academic information may be obtained from the various college offices and the web sites listed for the particular policies, programs and services found in this catalog.

Academic Calendar: Summer 2025

Summer Semester 2025

Session I: May 28 (W) – June 25 (W)

March 12 (W)	Summer registration begins
May 27 (T)	Final registration for Summer Session I
May 28 (W)	Classes begin
June 2 (M)	Last day for late registration and for dropping or adding courses
June 17 (T)	Last day for withdrawing from courses or changing from credit to audit
June 19 (Th)	Juneteenth Holiday (no classes)
June 25 (W)	Final examinations will be held on June 25 or the last scheduled class day
June 30 (M)	Final grades due
July 9 (W)	Census Date - Official Enrollment Reporting
September 5 (F)	Last day for student submission of work to remove incomplete (N) grades for Summer Session I
September 8 (M)	Last day for "N" grade conversion to be submitted by faculty to Registrar for Summer Session I
<u>Summer III May 28 (W) – July 28 (M)</u>	

March 12 (W)	Summer registration begins
May 27 (T)	Final registration for Summer Session III
May 28 (W)	Classes begin
June 3 (T)	Final day for late registration and for dropping or adding courses
June 19 (Th)	Juneteenth Holiday (no classes)
July 4 (F)	4 th of July Holiday (no classes)
July 8 (T)	Last day for withdrawing from courses or changing from credit to audit
July 9 (W)	Census Date - Official Enrollment Reporting
July 28 (M)	Final examinations will be held on July 28 or the last scheduled class day
July 31 (Th)	Final grades due
September 5 (F)	Last day for student submission of work to remove incomplete (N) grades for Summer Session III
September 8 (M)	Last day for "N" grade conversion to be submitted by faculty to Registrar for Summer Session III
<u>Session II: June 30 (M) – July 28 (M)</u>	

March 12 (W)	Summer registration begins
June 26 (Th)	Final registration for Summer Session II
June 30 (M)	Classes begin
July 2 (W)	Last day for late registration and for dropping or adding courses
July 4 (F)	4 th of July Holiday (no classes)
July 9 (W)	Census Date - Official Enrollment Reporting
July 17 (Th)	Last day for withdrawing from courses or changing from credit to audit
July 28 (M)	Final examinations will be held on July 28 or the last scheduled class day
July 31 (Th)	Final grades due
September 5 (F)	Last day for student submission of work to remove incomplete (N) grades for Summer Session II
September 8 (M)	Last day for "N" grade conversion to be submitted by faculty to Registrar for Summer Session II

Please note: This calendar is tentative and subject to change.

Academic Calendar: 2025-2026

Fall 2025

Aug. 21-24 (Th-Sa)	New Student Orientation and Registration
Aug. 25 (M)	Classes Begin for Full Semester Classes and FastForward 1 Classes*
Aug. 29 (F)	Last day for requesting Satisfactory/Unsatisfactory or Audit
Aug. 31 (Su)	Last Day for dropping and/or adding classes
Sept. 1 (M)	Labor Day - No Classes
Sept. 15 (M)	Last Day for Authorized Withdrawal without Academic Penalty; (WX) for FastForward 1
Oct. 10 (F)	Mid-term
Oct. 12 (Su)	Final Day for FastForward1 Classes
Oct. 13 (M)	Semester Recess
Oct. 15 (W)	Final Grades Due for FastForward 1 Classes (Noon)
Oct. 20 (M)	Classes Resume and FastForward 2 Classes begin*
Oct. 22 (W)	Midterm Grades Due for Full Semester Classes (Noon)
Oct. 24 (F)	Undergraduate Advising Begins
Oct. 26 (Su)	Drop/add for FastForward 2
Nov. 3 (M)	Undergraduate Registration Begins for Spring 2026 semester
Nov. 10 (M)	Last Day for Authorized Withdrawal without Academic Penalty (WX) for FastForward 2 Classes only
Nov. 12 (W)	Last Day for Authorized Withdrawal without Academic Penalty (WX) for Full Semester Classes only
Nov. 25 (T)	Thanksgiving Recess begins after last class
Dec. 1 (M)	All Classes Resume
Dec. 9 (T)	Deemed a Friday class day and will follow a Friday schedule (UG day classes only)
Dec. 11 (Th)	Final Day for Full Semester Classes
Dec. 12 (F)	Reading Day
Dec. 13-19 (Sa-F)	Final Examinations for Full Semester Day Classes (No Exams on Sunday, Dec. 14)
Dec. 14 (Su)	Final Day for FastForward 2 Classes

Dec. 15 (M)	Final Grades Due FastForward 2 Classes (Noon)
Jan. 5 (M)	Final Grades due for Full Semester Classes (9:00am)
Jan. 30 (F)	Last day for student submission of work to remove incomplete (N/NG) grade
Feb. 13 (F)	Last day for faculty to submit "N" grade conversion of final grade (Fall 2025 semester)
Feb. 13 (F)	Grade change requests must be submitted by faculty to the Registrar via the Workflow BEFORE 5 p.m. *FastForward Classes run in two 7 weeklong sessions

Spring 2026

Jan. 12 (M)	Classes Begin for Full Semester Classes and FastForward 3 Classes*
Jan. 16 (F)	Last Day for requesting Satisfactory/Unsatisfactory or Audit
Jan. 18 (Su)	Last Day for dropping and/or adding classes; FastForward 3 drop/add ends
Jan. 19 (M)	Martin Luther King Day (No Classes)
Feb. 8 (Su)	Last Day for Authorized Withdrawal without Academic Penalty; (WX) for FastForward 3
Feb. 27 (F)	Mid-Term
Mar. 1 (Su)	Final Day of Classes for FastForward 3
Mar. 2 (M)	Semester Recess
Mar. 4 (W)	Final Grades Due for FastForward 3 Classes (Noon)
Mar. 9 (M)	Full Semester Classes Resume and *FastForward 4 Classes begin
Mar. 11 (W)	Midterm Grades Due for Full Semester Classes (Noon)
Mar. 12 (Th)	Undergraduate Registration Begins for Summer 2026 semester
Mar. 13 (F)	Undergraduate Advising Begins
Mar. 15 (Su)	Drop/add for FastForward 4
Mar. 23 (M)	Undergraduate Registration Begins for Fall 2026 semester
Apr. 1 (W)	Last Day for Authorized Withdrawal without Academic Penalty (WX) for Full Semester Classes only
Apr. 1 (W)	Easter Recess begins after last class
Apr. 5 (Su)	Last Day for Authorized Withdrawal without Academic Penalty; (WX) for FastForward 4 Classes only
Apr. 7 (T)	Classes Resume
Apr. 28 (T)	Deemed a Friday class day and will follow a Friday schedule (UG Full Semester Day classes only)
Apr. 29 (W)	Deemed a Monday class day and will follow a Monday schedule (UG Full Semester Day Classes only)
Apr. 30 (Th)	Final Day for FastForward 4 Classes
May 4 (M)	Final Day for Full Semester Classes
May 5 (T)	Reading Day
May 6-12 (W-T)	Final Examinations (No exams on Sun., May 10)
May 4 (M)	Final grades due for FastForward 4 (Noon)

May 18 (M)	Final Grades due for Full Semester Classes (9:00am)
May 19-20 (T-W)	Baccalaureate and Commencement
Jun. 26 (F)	Last day for student submission of work to remove incomplete (N/NG) grade.
Jul. 10 (F)	Last day for faculty to submit "N" grade conversion of final grade (Spring 2026 semester)
Jul. 10 (F)	Grade change requests must be submitted by faculty to the Registrar via the Workflow BEFORE 5 p.m. *FastForward classes run in two 7 weeklong sessions

Academic Calendar: Summer 2026

Summer Semester 2026

Session I: June 1 (M) - June 29 (M)

March 11 (W)	Summer registration begins
May 28 (Th)	Final registration for Summer Session I
June 1 (M)	Classes begin
June 3 (W)	Last day for late registration and for dropping or adding courses
June 18 (Th)	Last day for withdrawing from courses or changing from credit to audit
June 19 (F)	Juneteenth Holiday (no classes)
June 29 (M)	Final examinations will be held on June 29 or the last scheduled class day
July 2 (Th)	Final grades due
July 13 (M)	Census Date - Official Enrollment Reporting
August 19 (W)	Last day for student submission of work to remove incomplete (N) grades for Summer Session I
Sept 2 (W)	Last day for "N" grade conversion to be submitted by faculty to Registrar for Summer Session I

Summer III June 1 (M) – July 29 (W)

March 11 (W)	Summer registration begins
May 28 (Th)	Final registration for Summer Session III
June 1 (M)	Classes begin
June 8 (M)	Final day for late registration and for dropping or adding courses
June 19 (F)	Juneteenth Holiday (no classes)
July 3 (F)	4 th of July Holiday Observance (no classes)
July 4 (S)	4 th of July Holiday
July 13 (M)	Census date - Official Enrollment Reporting
July 15 (W)	Last day for withdrawing from courses or changing from credit to audit
July 29 (W)	Final examinations will be held on July 29 or the last scheduled class day

August 3 (M)	Final grades due
August 19 (W)	Last day for student submission of work to remove incomplete (N) grades for Summer Session III
Sept 2 (W)	Last day for "N" grade conversion to be submitted by faculty to Registrar for Summer Session III
Session II: July 1 (W) – July 29 (W)	
March 11 (W)	Summer registration begins
June 30 (T)	Final registration for Summer Session II
July 1 (W)	Classes begin
July 3 (F)	4 th of July Holiday Observance - No classes
July 4 (S)	4 th of July Holiday
July 6 (M)	Last day for late registration and for dropping or adding courses
July 13 (M)	Census date - Official Enrollment Reporting
July 22 (W)	Last day for withdrawing from courses or changing from credit to audit
July 29 (W)	Final examinations will be held on July 29 or the last scheduled class day
August 3 (M)	Final grades due
August 19 (W)	Last day for student submission of work to remove incomplete (N) grades for Summer Session II
Sept 2 (W)	Last day for "N" grade conversion to be submitted by faculty to Registrar for Summer Session II

Please note: This calendar is tentative and subject to change

Academic Calendar: 2026-2027

Fall 2026

Aug. 20-23 (Th-Su)	New Student Orientation and Registration
Aug. 24 (M)	Classes Begin
Aug. 28 (F)	Last day for requesting Satisfactory/Unsatisfactory or Audit
Aug. 30 (Su)	Last Day for dropping and/or adding classes
Sept. 7 (M)	Labor Day - No Classes
Oct. 9 (F)	Mid-term
Oct. 12 (M)	Semester Recess
Oct. 19 (M)	Classes Resume
Oct. 21 (W)	Midterm Grades Due (Noon)

Oct. 23 (F)	Undergraduate Advising Begins
TBD	Undergraduate Registration Begins for Spring 2026 semester
Nov. 11 (W)	Last Day for Authorized Withdrawal without Academic Penalty (WX)
Nov. 24 (T)	Thanksgiving Recess begins after last class
Nov. 30 (M)	Classes Resume
Dec. 8 (T)	Deemed a Friday Class and follow a Friday Schedule for UG Day Classes only
Dec. 10 (Th)	Final Day of Classes
Dec. 11 (F)	Reading Day
Dec. 12-18 (Sa-F)	Final Examinations (No Exams on Sunday, Dec. 13)
Dec. 21 (M)	Final Grades due (9:00am)
Jan. 29 (F)	Last day for student submission of work to remove incomplete (N/NG) grade.
Feb. 12(F)	Last day for faculty to submit "N" grade conversion of final grade (Fall 2025 semester).
Feb. 12 (F)	Grade change requests must be submitted by faculty to the Registrar via the Workflow BEFORE 5 p.m.

Spring 2027

Jan. 11 (M)	Classes Begin
Jan. 15 (F)	Last Day for requesting Satisfactory/Unsatisfactory or Audit
Jan. 17 (Su)	Last Day for dropping and/or adding classes
Jan. 18 (M)	Martin Luther King Day (No Classes)
Feb. 26 (F)	Mid-Term
Mar. 1 (M)	Semester Recess
Mar. 8 (M)	Classes Resume
Mar. 10 (W)	Midterm Grades Due (Noon)
Mar. 12 (F)	Undergraduate Advising Begins
TBD	Undergraduate Registration Begins for Fall 2027 semester
Mar. 24 (W)	Easter Recess begins after last class
Mar. 30 (T)	Classes Resume
Mar. 31 (W)	Last Day for Authorized Withdrawal without Academic Penalty (WX)
Apr. 27 (T)	Deemed a Friday and will follow a Friday Class Schedule (Undergraduate Day Only)
Apr. 28 (W)	Deemed a Monday and will follow a Monday Class Schedule (Undergraduate Day Only)
Apr. 29 (Th)	Final Day of Classes
Apr. 30 (F)	Reading Day
May 1-7 (Sa-F)	Final Examinations (No exams on Sun., May 2)
May 10 (M)	Final Grades due (12:00 Noon)

May 14-15 (F-Sa)	Baccalaureate and Commencement
Jun. 25 (F)	Last day for student submission of work to remove incomplete (N/NG) grade.
Jul. 9 (F)	Last day for faculty to submit "N" grade conversion of final grade (Spring 2026 semester).
Jul. 9 (F)	Grade change requests must be submitted by faculty to the Registrar via the Workflow BEFORE 5 p.m.

History: Background, Mission, Enduring Commitments

Background

For a century and a half, Villanova has been directed by the Order of St. Augustine, known as the Augustinians (<https://www1.villanova.edu/villanova/mission/heritage.html>), one of the oldest religious teaching orders of the Catholic Church. The first American foundation of the order within the present limits of the United States was established in 1796 at old St. Augustine's Church in Philadelphia. Villanova University traces its lineage from this foundation and from St. Augustine's Academy, which was opened there in 1811.

In January 1842, the Augustinians at old St. Augustine's took possession of Belle Air, the country estate of the Revolutionary officer and merchant John Rudolph. In accordance with the old Catholic custom, the new foundation was placed under the patronage of a saintly hero of the past. For their patron the Augustinians chose St. Thomas of Villanova, a 16th century Spanish Bishop who was a distinguished Augustinian writer and educator. The school soon became known as Villanova and gave its name to the surrounding countryside.

Classes were opened in the old mansion house at Belle Air during the fall of 1843. On March 10, 1848, the Governor of Pennsylvania, Francis R. Shunk, signed the Act of the Legislature incorporating The Augustinian College of Villanova in the State of Pennsylvania and conferring on Villanova College the right to grant degrees in the Arts and Sciences.

The Liberal Arts College took its first step toward university status in 1905 with the establishment of what is now called the College of Engineering. The Science unit, inaugurated in 1915, is now an integral part of the present College of Liberal

Arts and Sciences. In 1918, what was known as the Part-Time Studies Division of the College of Professional Studies came into being. The College of Commerce and Finance was founded in 1922 and became the Villanova School of Business in 2006. The College of Nursing and the School of Law were founded in 1953. The College of Professional Studies was founded in 2014.

Villanova's development over the years into a complex institution of higher education received official sanction when, on November 10, 1953, pursuant to an act of the Legislature of the Commonwealth of Pennsylvania, its charter was amended to permit its being designated Villanova University.

VILLANOVA UNIVERSITY MISSION STATEMENT

Villanova University is an Augustinian Catholic community of higher education committed to excellence and distinction in the discovery, dissemination, and application of knowledge. Founded and sponsored by the Order of St. Augustine, and inspired by the life and teaching of Jesus Christ, the University seeks to advance a deeper understanding of the relationship between faith and reason—preparing students to think critically, act compassionately, and succeed while serving others. The academic mission is grounded in the wisdom of the Catholic intellectual tradition with particular attention paid to the contribution and influence of St. Augustine.

The University provides a comprehensive education rooted in the liberal arts, a commitment to the Augustinian ideals of Veritas, Unitas and Caritas—Truth, Unity and Love, and a community dedicated to serving the common good. Villanova cultivates an academic environment that is marked by genuine curiosity about different perspectives, ardent receptivity to knowledge generated through intercultural connections, and a genuine sensitivity to the variety of human experiences. The University welcomes and respects members of all faiths, cultures, experiences and abilities who share an enthusiasm for the challenge of

responsible and productive citizenship in order to build a just and peaceful world.

ENDURING COMMITMENTS

In pursuit of this mission, we commit ourselves to academic excellence, to our values and traditions, and to our students, alumni and the global community.

To foster academic excellence, we:

- Create a community of scholars with varied backgrounds, talents, experiences and beliefs, united and dedicated to the highest academic standards;
- Emphasize the liberal arts and sciences as our foundation and foster in our students active engagement, critical thinking, life-long learning and moral reflection;
- Concern ourselves with developing and nurturing the whole person, allowing students, faculty and staff to grow intellectually, emotionally, spiritually, culturally, socially and physically in an environment that supports individual differences and insists that mutual love and respect should animate every aspect of university life;
- Encourage interdisciplinary research, teaching and scholarship;
- Affirm the intrinsic good of learning, contemplation and the search for truth in undergraduate and graduate education;
- Support a curriculum that encourages both a global perspective and an informed respect for the differences among peoples and cultures.

To honor our values and tradition, we:

- Believe that the dialogue between faith and reason drives the pursuit of knowledge and wisdom, and fosters St. Augustine's vision of learning as a community ethos governed by love;
- Seek to understand, enrich and teach the Catholic intellectual tradition through our curricula, scholarship and activities in ways that engage various religious, intellectual and cultural traditions in a vigorous and respectful pursuit of truth and wisdom in every area of humanity;

- Provide opportunities for students, faculty and staff to seek guidance from the Augustinian intellectual tradition and Catholic Social teaching, while always welcoming people from all faiths, cultures and traditions to contribute their gifts and talents to our mission;
- Mirror the Gospel by fostering a community of different backgrounds and varying perspectives where all are welcomed and valued;
- Treat each other with mutual care and respect, which is fundamental to living and learning in the Augustinian tradition that recognizes that we learn best from and with each other;
- Respect and encourage the freedom proposed by St. Augustine, which makes civil discussion and inquiry possible and productive;
- Look to the Order of St. Augustine to preserve our Augustinian character, by showing appropriate preference to Augustinians in faculty and staff appointments, and by welcoming their presence and influence in our university community.

To serve our students, alumni and global community, we:

- Are a community grounded in the Augustinian values of Veritas, Unitas and Caritas that fosters welcome and belonging to ensure all people are treated with respect, rooted in the belief that each person is created in the image and likeness of God, with particular attention paid to the care of the most vulnerable;
- Encourage students, faculty and staff to engage in service experiences and research, both locally and globally, so they learn from others, provide public service to the community and help create a more sustainable world;
- Commit to the common good, and apply the knowledge and skills of our students and faculty to better the human condition;
- Encourage our students and faculty to pursue virtue by integrating love and knowledge, and by committing themselves to research and education for justice, with a special concern for the poor and compassion for the suffering;
- Respect a worldview that recognizes that all creation is sacred and that fosters responsible stewardship of the environment;

- Include our alumni as an integral part of the Villanova community;
- Value highly our relationship with neighboring communities.

May 2025

Augustinians at Villanova

Villanova University has been sponsored by the Order of St. Augustine since its founding in 1842. Members of the Order serve in many areas of the University including teaching in academic departments, ministering and counseling in Mission and Ministry, as well as serving in a number of administrative positions. Augustinians are also represented in the governance of the University, as President and through membership on the Board. Since its beginning, Villanova has been privileged to mediate St. Augustine's vision of education as a community activity of scholars searching for truth in open discussion, commitment to ethical values, and dedication to social justice and human rights.

Villanova seeks to play an important role in allowing the voice of Augustine of Hippo (354-430 AD) to continue to speak effectively to today's world. With this in mind, Villanova established The Augustinian Institute to solidify efforts already undertaken and initiate new projects that flow from this rich Augustinian legacy.

This Institute serves the university as an agent and resource to support its efforts to give Augustine's thought a vibrant and integral place within Villanova's academic and community life. Beyond the university it reaches out to the wider culture through conferences, publications, fellowships, and other initiatives. The Institute is located in 451 St. Augustine Center.

List of Degree Programs

Programs of undergraduate study in the various colleges lead to the following degrees:

College of Liberal Arts and Sciences

(www.artsci.villanova.edu): Bachelor of Arts; Bachelor of Science; Bachelor of Arts, Honors; Bachelor of Science, Honors; Associate of Arts (only offered to students enrolled in Villanova's Program at SCI Phoenix).

College of Engineering

(<https://www1.villanova.edu/university/engineering.html>): Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Computer Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering; Bachelor of Science in Chemical Engineering, Honors; Bachelor of Science in Civil Engineering, Honors; Bachelor of Science in Computer Engineering, Honors; Bachelor of Science in Electrical Engineering, Honors; Bachelor of Science in Mechanical Engineering, Honors.

School of Business

(<https://www1.villanova.edu/university/business.html>): Bachelor of Business Administration, Bachelor of Business Administration, Honors.

College of Nursing

(<https://www1.villanova.edu/university/nursing.html>): Bachelor of Science in Nursing; Bachelor of Science in Nursing, Honors.

College of Professional Studies

(<https://www1.villanova.edu/university/professional-studies.html>): Bachelor of Interdisciplinary Studies, Bachelor of Arts, Associate of Arts, Associate of Science. Students may also pursue selected Bachelor of Arts or Bachelor of Science degrees in the College of Liberal Arts and Sciences.

Majors will be listed on the transcript, not on the diploma. To qualify for the Bachelor's Degree, the student must have completed successfully one of the four-year courses of study as specified by the University together with other work assigned. The awarding of the degree is conditioned not upon the attainment of any fixed number of credit hours, but upon the satisfactory completion of all the studies prescribed for the degree sought. Details are available in each college's sections of this Catalog.

Normally, a student may receive only ONE degree, regardless of how many majors they

earn. Students who have completed all the requirements for two or more degrees – e.g., B.B.A. and B.A, or B.A. and B.S.. – must choose which degree to take – unless they have completed 43 or more additional credits beyond the greater of the two program credit requirements, in which case they may receive two degrees and two diplomas. Multiple majors, regardless of college, will appear on a student's transcript. The College Dean will be responsible for the proper counting of credits and for determining whether a given student will receive more than one degree/diploma.

Honors Program

Honors Degree Requirements

Honors degrees are available to students accepted into the University Honors Program. In addition to completing the degree requirements in their home college/school additional requirements (see below) are required to change the degree to an honors degree.

The College of Engineering requires 29-31 credits of Honors coursework, depending on major, to earn an Engineering Honors degree. Refer to the College of Engineering section of the catalog for detailed curricular requirements.

The Honors College of Liberal Arts and Sciences Degree requires 30 or 31 credits of Honors coursework depending on which concentration the student selects for the Honors Degree. If the Thesis concentration is selected, at least 9 credits must be upper-level Honors courses, including Thesis I & II, for a total of 30 credits. If the Integrative Capstone concentration is selected, 9 credits of upper-level Honors coursework is required, along with a 1 credit Integrative Capstone course during senior year, for a total of 31 credits. Refer to the College of Liberal Arts and Sciences section of the catalog for detailed curricular requirements.

The Fitzpatrick College of Nursing requires 30 credits of Honors coursework to earn a Nursing Honors degree. Refer to the Nursing section of the catalog for detailed curricular requirements.

The Villanova School of Business requires 31 credits of Honors coursework, including VSB 2121 (1 credit), to earn a Business Honors Degree, and

at least five of the 11 must be in Business. Refer to the Villanova School of Business section of the catalog for detailed curricular requirements.

Honors Degree and Minors: <https://live-villanova-catalog.cleancatalog.io/honors/honors>

Accreditation and Recognition

Villanova is approved by the Pennsylvania Department of Education and is accredited by the Middle States Association of Colleges and Secondary Schools.

In the College of Liberal Arts and Sciences, the Chemistry Program is certified by the American Chemical Society. Villanova University is recognized by the United States Navy as a training center for Reserve Officer Training (NROTC).

The undergraduate programs in Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, and Mechanical Engineering are accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Degree programs within the School of Business are fully accredited by the American Assembly of Collegiate Schools of Business (AACSB).

The College of Nursing is approved by the State Board of Nursing of the Commonwealth of Pennsylvania. Upon completion of the undergraduate program, graduates are eligible to take the licensing examination (NCLEX) for professional registered nurses. The undergraduate and graduate programs are both fully accredited by the Commission on Collegiate Nursing Education.

Honor Societies

In addition to the many honor societies appropriate to individual colleges and academic disciplines and departments, Villanova has chapters of these national honor societies:

Phi Beta Kappa

[Website](#)

The Sigma Chapter of Phi Beta Kappa was established at Villanova in 1986. Membership is an honor conferred primarily in recognition of outstanding scholarly achievement in the liberal arts and sciences.

Phi Kappa Phi

<https://www1.villanova.edu/content/university/student-life/ofsl/chapters.html>

Phi Kappa Phi is an honor society whose objective is the recognition and encouragement of superior scholarship in all academic disciplines.

Alpha Sigma Lambda

https://www1.villanova.edu/university/professional-studies/villanova-cps-experience/alpha_sigma_lambda.html

The Mu Chapter of Alpha Sigma Lambda was established at Villanova University in 1958. The society honors dedicated part-time and evening students.

Dean's Lists

Each year the Dean of each college at Villanova honors those students who are deemed to have established an outstanding academic record as determined by the College and its Dean. To qualify for the Dean's List, a student must be a full-time student, with no non-passing or missing grades on the semester report, at least 12 credits of earned letter grades and with a semester average of 3.5. To qualify for the Dean's List in the Fitzpatrick College of Nursing, a student must be a full-time student, registered for a minimum of 12 credits, and achieve a semester quality point average of 3.5 in that semester, with no non-passing or missing grades on the semester report. Dean's list is awarded in fall, spring, and summer semesters.

Academic Services

Advising

Villanova takes seriously the responsibility of academic advising. Students are urged to consult with their academic advisers on a regular basis.

Each College has its own advising system. For details, see the college sections that follow in this Catalog and consult the various college offices.

Career Center

The Career Center provides guidance to all students and alumni of Villanova on every step of their career journeys: exploring career and graduate school options, strategically connecting to internships and jobs, changing careers, and more. The team at the Career Center partners with units across the university to deliver comprehensive professional development opportunities customized to a variety of interests each year. The Center manages Handshake, the university's career management system, which connects students and alumni to thousands of job postings and on-campus interviews, as well as hundreds of recruiting events which take place on campus. Individual career counseling is available year-round, allowing Villanovans to get specific feedback and best practices on interviewing, resume and cover letter writing, and industry-specific job search strategies. The Career Center's website provides extensive information on career development and resources for graduate school applicants.

The office is located in Garey Hall on the 1st floor and our team, including trained student Career Assistants, looks forward to meeting you.

Center for Access, Success and Achievement (CASA)

The Center for Access, Success and Achievement (CASA) aims to recruit, retain, and graduate underrepresented, first generation, and Pell Eligible students through holistic support in a culturally diverse and academically excellent environment. Our goal is to maintain successful retention by providing students with a sense of belonging in a nurturing environment, opportunities for self-realization and personal development, and holding them accountable for working to the best of their abilities. As a multifaceted center, CASA houses a number of resources that provide access to success. In addition, our office coordinates programming throughout the year to promote self-care, self-actualization, and self-advocacy. To accomplish

these goals, we partner with local units, resources, and Villanova departments to provide coordinated care and support.

The Center for Access, Success and Achievement is located in the Learning Commons, Falvey Library, 2nd Fl. Call 610-519-4075 for information.

The main programs are:

Academic Advancement Program (AAP). AAP is an admission and resource program designed especially for highly motivated students who have strong academic credentials and could benefit from additional financial and academic support. The goal of the AAP program is provide an educational opportunity to such students and to facilitate their academic and personal adjustment to college. The pre-college component offers a three-credit freshman English course, math, college writing skills, general sciences classes, and critical thinking workshops. Selection for participation is made through the Admissions Office and is based on students' high school transcript, SAT/ACT scores, their college essay and family income levels. Students residing in Pennsylvania, New Jersey, Delaware and Maryland are eligible for the AAP program. Anyone interested in this program should call Linda Coleman at 610-519-4074.

A.C.T.I.V.E (Advising, Counseling, Tutoring, and Information to enhance the Villanova Experience). CASA offers comprehensive integrated services to all incoming students. Our goal is to ease first and second year students' transition into the Villanova University community. In addition to academic tutoring, counseling and course advising, we can also help students select and get involved with a wide array of engaging extracurricular activities. First and second year students, at times, may feel overwhelmed and under prepared when inundated with opportunities and issues on and off campus. When faced alone, these issues may affect their personal and academic life. Adding to those concerns may sometimes include cultural differences, social, political, spiritual, and economic hardships. The Center for Access, Success and Achievement combats these concerns through the services they offer. Anyone seeking information about this program should call 610-519-4075.

St. Thomas of Villanova Scholars Program (STOVS). The STOVS program is a three-week

summer program where invited incoming freshmen begin their college career. During STOVs, students have the opportunity to familiarize themselves with college level courses, connect with University faculty and administrators, and meet some of their new best friends. STOVs is a residential program and during this summer program, students take a 3-credit, Augustine and Culture Seminar (ACS) class, or a 3-credit Economics class (based on major selection and committee recommendation). Through one-on-one meetings, students will begin to identify and work towards their academic, social, and career goals. Students are invited to apply to the STOVs program in early May, after submitting their deposit to attend Villanova University. For more information about the program contact The Center for Access, Success and Achievement at 610-519-4075.

Center for Research and Fellowships

The Center for Research and Fellowships (CRF) ignites curiosity, exploration, and discovery through student research programs, the Presidential Scholars Program, and the administration of processes, advising, and endorsement for nationally competitive scholarships and fellowships. Through tailored professional development and advising, CRF equips students and alumni to become changemakers and transformative leaders.

CRF's portfolio of student research programs includes the Villanova Match Research Program for First-Year Students, Villanova Undergraduate Research Fellows Program, conference, travel grants, *Veritas: Villanova Research Journal*, and the annual Undergraduate Research Symposium. In recent years, hundreds of Villanova undergraduates have received CRF funding for research that they have published in peer-reviewed scholarly journals and presented at national and international conferences.

CRF is also proud to manage all aspects of the Presidential Scholars Program, including the application and selection processes as well as advising Presidential Scholars throughout their time at Villanova.

Established in 2001, CRF has connected hundreds of Villanova students and alumni to programs of research and scholarship around the world. CRF is located on the top floor of Garey Hall.

Education Abroad

Each year, over 800 Villanova students study overseas for a summer, a semester, or a year to add an international dimension to their academic career. Villanova offers students a wide variety of programs and locations around the world. All majors can study abroad for a semester, though planning early is important, especially for Engineering, Nursing, and Science students. The Office of Education Abroad helps students identify opportunities and facilitates the process of enrollment in overseas programs.

For more information, visit our website <https://www1.villanova.edu/content/villanova/provost/abroad.html>, email abroad@villanova.edu or call the main office at 610-519-6412.

Information Technologies (IT)

The Office for University Information Technologies (UNIT) partners with the Villanova Community to deliver IT Solutions and Services. UNIT delivers innovative technology offerings for wide and varied needs ranging from academic related technology, IT computing, network services, web development and support services to the entire campus community. UNIT also provides a campus-wide network for data, voice, and video communication for students, faculty, and staff. Wireless network connectivity and Xfinity Cable services are extended to all residence hall rooms.

Virtual and VPN technologies facilitate access to network and campus technology resources from off-campus locations.

In addition to many college and department-specific student computing labs, UNIT manages public student labs located Tolentine hall as well as computer print stations throughout campus that are open 18-24 hours a day. Computer workstations in these locations feature Virtual Desktop (vDesktop) technology and support

general-purpose applications such as the Microsoft Office suite and Adobe. Additionally, multiple Apple iMac are available in Tolentine Lab areas for student use.

The Villanova TechZone is a walk-up IT support center with multiple locations in Falvey Library, Charles Widger School of Law and The Commons in Cannon Hall. The TechZone provides assistance to students and Villanova Employees with University issued laptop computers, issues with BYOD (Bring Your Own Device) equipment, and general technical support issues from 9am to 7pm M-Th and 9am to 5pm F. Technical support is complemented by Web based documentation, IT Service Catalog, and UNIT's Facebook site. In addition to the TechZone, UNIT operates the University Help Desk and provides technical support and service from 8am to 7pm M-Th and 8am to 5pm F, via phone by calling 610-519-7777.

Technical service and support is also provided by:

- Chat (www.villanova.edu/villanova/unit.html) from 9am to 7pm M-Th and 9am to 4pm Friday
- Email (Support@villanova.edu)
- Self-Service Support (<http://www.villanova.edu/villanova/unit/helpsupport/EasyVista.html>).

The Center for Instructional Technologies (CIT) provides many resources and services to promote the use of technology in the teaching and learning environment. Included in these services are multimedia development, online teaching and learning resources, instructional design consultation, training/support for the campus Learning Management System (Blackboard), video and audio streaming studios, classroom lecture capture utilizing Mediasite, video and web conferencing, access to Internet 2, workshops offered on a variety of technologies utilized on campus, and classroom AV integration and support.

All 200 classrooms are equipped with high-end AV systems that feature widescreen LCD projectors, large format projection screens, intuitive control systems, various AV connectivity options, (wireless) internet access, multimedia teaching technologies and are fully supported by our Classroom Technologies Support Hotline (610-519-5631).

The Villanova User-ID is assigned to each student to access many Villanova systems and services throughout campus such as myNova, wifi, Blackboard and email. All undergraduate students receive a Gmail email account with access to Google apps. Cloud services and storage are offered via Google Drive and Microsoft Office 365 - OneDrive at office.villanova.edu.

All students have a personalized portal called myNova that provides access to their course schedules and course related materials and allows them to perform most administrative functions, such as registration or grade lookup.

The University Card Office provides the "Wildcard", a photo identification card that is required for all Villanova students, faculty, and staff. The Wildcard allows convenient and secure access to all card related services, including personal identification, facility access and access monitoring, debit transactions processing (NovaBucks), meal plan administration, banking relationship management, student printing allowance, and web-based transaction processing. The Wildcard is universally accepted on campus and at selected off-campus locations.

Nova Alert is Villanova's Emergency Communication system that uses text and phone messaging features that enables campus public safety and university officials to send targeted alerts to students and faculty members in a matter of seconds. Nova Alert is designed to communicate an emergency, which could jeopardize the physical safety of the members of the University community. The alert is also used to notify the Villanova community about weather issues, such as snow-related campus closures. The alert may contain instructions on where to go, what to do or not do, as well as instructions on where to find additional information. Depending on the recipient's preference, the Nova Alert may be sent to cell phones, e-mail accounts, smart phones and PDA devices. Nova Alert sign-up allows for current students, faculty, and staff to enter multiple devices, enabling alerts to be sent to parents or other family members.

Learning Support Services (LSS)

Learning Support Services (LSS) offers students a variety of academic support services that are designed to help all Villanova students maximize their academic success. These services include one on one weekly academic coaching sessions, study skills consultation, and accommodation support for students with disabilities. Online resources including a series of study skills workshops are available from our website at: <https://www1.villanova.edu/villanova/provost/learningsupport/>

Additionally, LSS is committed to providing “reasonable academic accommodations” for students with learning disabilities, ADHD, students on the Autism spectrum, and students with mental health conditions and chronic health conditions that rise to the level of disability. Villanova students may request support services in accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA). Our goal is to ensure that students with disabilities have an opportunity to grow independently to their full potential at Villanova.

To receive academic accommodations, students need to register with LSS by first completing the Online Intake Form through Clockwork, our secure data management system. To access Clockwork, students select the Clockwork for Students login on the Villanova University LSS website <https://www1.villanova.edu/villanova/provost/learningsupport.html> or myNOVA. Once on the Clockwork homepage, select the Online intake form. Students can then log in with their Villanova username and password to access and complete the form. Documentation supporting the need for accommodations can be loaded directly to Clockwork. Reasonable academic accommodations are based on the assessment of the current impact of the disability on academic performance; therefore, it is in the student’s best interest to provide current and complete documentation. Given the specific nature of the disability, “reasonable academic accommodations” will be determined on an individual basis. Once approved for accommodations, the student can go into Clockwork each term to request accommodations for specific classes.

The Office of Learning Support Services is in 212 Falvey Library. For additional information about our services, contact 610-519-5176 or email learning.support.services@villanova.edu

Math Center in the Learner’s Studio

The Math Center in the Learner’s Studio is a center for student learning excellence. It offers free peer tutoring in mathematics, primarily with first and second year math classes. It also provides an environment where students can work on group projects, study independently, and use its learning resources. These resources include computers capable of running the mathematical software currently being used in math courses offered at Villanova and a comprehensive collection of review materials which students may use for review or independent learning.

The Center is located in 204 Falvey Library, tel. 610-519-6572.

<https://www1.villanova.edu/content/villanova/provost.html>

The Learner’s Studio

The Learners’ Studio provides one-on-one tutoring for [Computer Science](#), Romance Languages, Biology, Chemistry, Physics, Nursing, Engineering and more.

<https://www1.villanova.edu/university/academic-enterprise/student-support/learners-studio.html>

Center for Speaking and Presentation

Taking a public speaking class? Working on a formal presentation? Prepping for an interview? Looking for practice participating in a seminar? The Center for Speaking and Presentation can help you develop and refine these skills and more.

<https://www1.villanova.edu/university/academic-enterprise/student-support/speaking-presentation.html>

Writing Center

Writing Center tutors offer assistance to undergraduates, graduate students, faculty, and staff who are engaged in every kind of writing. Students are welcome to come to the Writing Center at any stage of their composing process. Walk-in appointments are welcomed, but scheduled appointments are strongly encouraged. An individual session takes approximately 45 minutes in length, and clients may request a specific tutor.

The Center is located in 210 Falvey Library;
Phone: 610-519-4604
<https://www1.villanova.edu/villanova/provost/writingcenter.html>

Learning Communities

Join one of our Learning Communities and get the most out of your first year of college! Villanova's Learning Communities create innovative educational environments that integrate the academic, co-curricular, and communal aspects of the first year of college in specially themed versions of the required Augustine and Culture Seminar.

Your choice will help you quickly foster strong relationships with your classmates and professor. By also living in the same residence hall as your seminar classmates and participating in a 1-credit weekly workshop, you will integrate your academic and social experiences and participate in unique opportunities with special programming, events, and trips related to your learning community's theme. Get more information at <https://www1.villanova.edu/university/student-life/residence-life/communitas.html>

Examples of themes/interests are

- Leadership (commuter sections also available)
- Art and Culture
- Caritas: Service Learning
- Creative Writing
- Environmental Leadership
- Faith and Reason
- Global Community
- Healthy Living
- Crossroads: Science and Humanities (no workshop requirement)

Library Resources and Services for Students

Falvey Library, located in the center of the campus, provides a variety of services to help all students excel at Villanova.

Collections: The library's electronic and print collections include more than one million books, tens of millions of journal articles, as well as audio-visual and other types of materials. The library's e-books and e-journals are available 24/7 and can be accessed anywhere in the world through the library's website: <http://library.villanova.edu>. If a student needs a title that the library doesn't have, library staff usually can provide a copy of an article within 24 hours of request and a book within a few days.

Copies of select course materials are available at the library. Faculty may place print copies of the required and recommended readings for classes on reserve at the library's service desk or course materials may be available electronically via Blackboard.

The library also contains the University Archives and Special Collections that support the teaching and research of the campus community and the global network of scholarship. These collections include rare and unique materials with particular strengths in the histories of Villanova, Augustinians, and Irish- Americans. Many items from these distinctive collections have been digitized and are available at <http://digital.library.villanova.edu>.

Services: Subject librarians are available to assist students through the year. Librarians can help students learn the skills and tools needed to find, evaluate, and cite information sources for research assignments. Students can call, email, text, chat online, or visit the library to work with a librarian. Students looking for an in-depth consultation are encouraged to schedule a meeting with a librarian. For more information see: <http://library.villanova.edu/research>.

Librarians have also created many self-help guides to assist students with the research assignments. Guides are available on many subjects and topics as well as for specific courses at <http://library.villanova.edu/research/subject-guides>.

The Learning Commons, located on the second floor of the library, provides academic support services for students. Services include the Center for Access, Success, and Achievement (CASA), Learning Support Services Office, Math Learning Resource Center, and Villanova Writing Center.

Facilities: The library is a hot spot for student study. There are many places to work in the library ranging from silent individual study, to areas that allow quiet conversation, to group study rooms for highly collaborative work. The most popular study area in the library is Dugan Polk Family Reading Room which students can access 24 hours-a-day. Other 24-hour study spaces are available on the first and second floors of the library.

The library also has computer workstations, high-speed printers, and scanners located on the first floor of the library. TechZone is located on the first floor and provides help with connectivity, VPrint, software, hardware and other technical problems.

Community Engagement: Falvey Library is the center for academic life outside the classroom and strives to provide a welcoming environment for students of all backgrounds and abilities. The library hosts hundreds of events for the community each academic year, ranging from scholarly lectures, to cultural events, to stress relieving activities for students. The library has several meeting rooms available for use by official student groups. For more information see: <http://library.villanova.edu/events/general>.

ROTC

Villanova University, in a long-standing relationship with the United States Navy, maintains one of approximately 60 Naval Reserve Officer Training Corps units in the United States. The University also has an Army ROTC program in affiliation with Widener University and an Air Force ROTC program in affiliation with St. Joseph's University. For more details about these programs, consult Special Programs in the Liberal Arts and Sciences section of this Catalog.

Transcripts

Students may obtain transcripts of their records by ordering them online. Current students log in to myNOVA. In the search box, enter Order a

Transcript. Student transcripts may be ordered for pick up, mailing, electronically or expedited delivery.

Students and Alumni without a myNOVA account order transcripts on-line from the Registrar's Website www.registrar.villanova.edu select Alumni, select Transcripts, select Order a Transcript.

As of Spring 2024, transcripts delivered by the National Student Clearinghouse on behalf of Villanova University will present all academic levels (undergraduate, graduate, law, CPS professional education, etc.) on one transcript, regardless of degree or program attended. *The exception to this is professional education (non-credit) online programs attended via our online partner.*

Telephone and email requests cannot be accepted. Official transcripts bear the seal of the University and the signature of the Registrar. Those given, mailed or electronic transcripts, delivered directly to the student are stamped with a statement which points out this fact.

Individuals whose financial accounts are not clear in the Bursar's Office, will be requested to contact the Bursar's Office for processing.

Transcript Cost

Electronic, mail, and student pick-up transcripts cost \$10.00; Express Domestic or International Express transcripts cost \$10.00 plus additional courier service delivery fees.

Campus Programs and Services

Art Gallery

In its role as an extension of the classroom, Villanova's world-class Art Gallery serves to make the visual arts an engaging part of campus life for students, their families, staff and the community. Free on-campus exhibits by leading American and international artists, and emerging ones of promise, are publicly presented throughout the academic year.

Athletics and Recreation

Villanova student-athletes compete in 24 varsity sports, including 13 sports for women and 11 for men. The rich tradition of Wildcat Athletics has produced 20 National Championships and 103 Conference Championships. Faculty, staff and students have access to fitness centers, a swimming pool and intramural and competition in a wide variety of sports. In addition, the Athletic Department offers 30 different club sports in which students participate.

Mission and Ministry

Office for Mission and Ministry

St. Rita Hall

missionandministry@villanova.edu

Villanova's Office for Mission and Ministry is inspired by the Augustinian values of truth, unity and love, and models its programs after St. Thomas of Villanova, who dedicated his life to serving those on the margins of society. We welcome and encourage all students to engage in the search for meaning and purpose - through **prayer and worship, spirituality and community, education and advocacy, or service, sustainability and social justice**. As an Augustinian Catholic community, we see the worth and dignity of all people, of all faiths and backgrounds, and we find unity not in uniformity, but in mutual respect and care—knowing that we learn best from and with each other.

PRAYER, WORSHIP AND SPIRITUALITY

Mission and Ministry coordinates a diverse array of worship, prayer and opportunities for spirituality. We pray together through the Catholic Liturgy, a place where people of all backgrounds come together to celebrate the Word of the Gospel. **Masses** are offered on Sundays, including Misa en Español (Spanish Mass), and weekdays at St. Thomas of Villanova Church and Corr Chapel. The Sacrament of Reconciliation is offered several times a week.

We pray together through Muslim Jummah prayers on Fridays and opportunities for devotional and mindfulness practices, as well as special worship services marking major events

throughout the academic year. Many students participate in worship leadership as liturgical ministers, pastoral musicians, and members of planning teams.

Throughout the year, retreats provide students with the opportunity to step back from their daily routines, reflect on their spirituality and values, share stories and experience rest or gain a new perspective.

We partner with diverse Christian fellowship groups, Hillel, the Muslim Student Association and the student-led Interfaith Coalition to create **ecumenical and interfaith** experiences that enable students of diverse religious traditions to know and learn from one another.

SERVICE, ADVOCACY AND SOCIAL JUSTICE

Augustine challenges us to advance as a community and grow in our ability to love by focusing on the common good and integrating social justice with advocacy, while grounded in the dignity of humanity and all of creation. Within Mission and Ministry, there are three major centers where students can serve, learn and advocate in a supportive community. The **St. Thomas of Villanova Center for the Common Good (CCG)** serves as the main hub for community service and engaged learning at Villanova. It collaborates with both local and global partners and advocates for systems that promote the common good. The **Center for Peace and Justice Education (CPJE)** empowers students to think critically and engage in challenging but transformative discussions. It encourages students to confront institutions that render individuals vulnerable and to participate in efforts that uphold dignity for all. Additionally, the **Office for Sustainability** aligns Villanova's value-centered principles with environmental stewardship, promoting inclusivity among all members of the University and addressing all aspects of sustainability.

From worship to spiritual growth; to pastoral care and accompaniment of all backgrounds and faiths; to advocacy; to service; to sustainable living and care for the earth; to integration of mind and heart, Mission and Ministry strives to embody and advance the University's Catholic and Augustinian identity.

Counseling Center

The University Counseling Center, located on the Main Floor of the Health Services Building, offers psychological counseling, groups, consultation, and referral. Except for emergencies, appointments are required and can be scheduled either by phone 610-519-4050 or by visiting the Center.

Some examples of services are:

- Personal and Psychological Counseling. Students can discuss personal concerns in a private, confidential setting. Individual counseling sessions are available, as are counseling groups. All contacts are completely confidential and are not recorded on the student's university records. Doctoral Psychologists help students with issues such as: depression; anxiety; relationship concerns; eating disorders; trauma; self-defeating behaviors; family issues; and other problems.
- Drug and Alcohol Counseling. Students who are concerned about their use of alcohol or other drugs are encouraged to seek help from our psychologists.
- Consultation regarding other individuals. Students who are concerned about a family member, friend, or fellow student, may also consult the Counseling Center staff about how best to support that person.
- Referrals are provided for students who prefer to obtain off-campus counseling, or whose counseling needs exceed the capacity of the Counseling Center.

Crisis Response Services

Villanova University has devoted significant resources to providing a safe campus and assuring the safety of our community members. In addition to day-to-day coverage by our 75-member Public Safety team, we have an extensive Emergency Preparedness Plan in place that includes procedures to ensure a rapid response to an unanticipated emergency or threatening situation. Villanova takes all incidents affecting student, faculty, and staff safety as serious and time critical. We will use all available means of communications in a crisis situation, including text messaging, telephone, the Web

site, and e-mail. The University will also implement on-site personal contacts by utilizing Public Safety officers and other University staff and officials. In the event of an emergency on campus or off, we provide full-service counseling services, as well as access to Campus Ministry staff trained to provide grief counseling.

The Office of International Students and Scholars

The Office of International Students and Scholars assists international students and scholars in becoming familiar with the Villanova community, policies and U.S. government regulations that will govern their non-immigrant status here in the United States. The office sponsors a variety of social and cultural programs in conjunction with other Villanova organizations. Each Fall semester, in conjunction with the Office of University Admission, the office holds a mandatory orientation session geared towards the concerns of incoming international freshmen.

Incoming international freshmen are strongly advised to make their travel plans to enter the United States to attend this mandatory orientation program. Examples of topics covered during the orientation program include: the necessity to provide updated contact information and health insurance, how to maintain proper legal non-immigrant status during their academic career at Villanova, and regulations regarding on-campus employment. NOTE: Villanova University requires that all full-time students have health insurance. This office, with the Registrar's Office, is responsible to ensure that all international students are registered with the U.S. Department of Homeland Security/Student Exchange Visitor System each semester. The Office of International Students and Scholars is in Vasey Hall Rm 203 (610)519-8017 or (610)519-4737.

Office for Access & Disability Services (ADS)

The Office for Access & Disability Services (ADS) ensures Villanova University's compliance with

the Americans with Disabilities Act (ADA) as it relates to academic accommodations. ADS serves as the central resource on campus for matters related to physical disabilities, offering expertise, guidance, and support to students, faculty, and staff.

ADS collaborates with faculty to implement policies and procedures that promote access and inclusion for students with disabilities. The office also serves as a hub for information and referrals regarding disability-related concerns across the university community.

Students with documented disabilities are admitted to Villanova under the same competitive standards as all students. ADS partners with students to identify reasonable accommodations that support their full participation in academic programs. The office also works in coordination with a variety of campus partners to ensure accessible classrooms and campus facilities.

Incoming students are encouraged to schedule an appointment with ADS as early as possible to initiate the accommodations process. For more information or to request an appointment, please contact Mr. Greg Hannah (Director, Office for Access & Disability Services) at gregory.hannah@villanova.edu or the general office email ods@villanova.edu. The office is located on the second floor of the Connelly Center.

Office of Diversity, Equity and Inclusion (ODEI)

Student Outreach and Diversity Initiatives

Office of Diversity and Inclusion seeks to ensure that each student's educational experience at Villanova University takes place in the context of a welcoming, caring, just, and educationally purposeful community. The Center pursues this goal through the promotion and facilitation of intercultural awareness and by offering learning resources and structured learning experiences to support students and student organizations. Students are encouraged to contact the Center if they encounter any form of bias or discrimination at the University. Once reported, students will

meet privately with office staff to develop strategies for remedying problems encountered with bias or discrimination. The office also offers opportunities for students to assist the office in achieving its goals by participating in student organizations to promote diversity. Students are encouraged to e-mail bias@villanova.edu, visit the Office of Intercultural Affairs, or the Office of Diversity and Inclusion in person or online (www.diversity.villanova.edu).

Intergroup Dialogue Program

The Program on Intergroup Relations (IGR) is an educational program focused on supporting greater understanding about issues of inequity and promoting greater justice. IGR accomplishes this by providing students (as well faculty and staff) with the opportunity to understand their own social identities and those of others' more deeply, and to engage responsibly in promoting equity through allyship and action. IGR is a partnership between the Communication Department and the Office of Diversity and Inclusion. One-credit Dialogue classes (COM 5300) are the hallmark of the program and allow students in the four colleges to engage in small group conversations about race, class, gender, religion, and sexual orientation. IGR classes are housed in the Communication Department and are rooted in developing the communication skills of dialogic listening, cross-cultural understanding, empathy, and facilitation. Specially trained faculty and staff members co-facilitate each small class, limited to 12 students. For more information e-mail igrinfo@villanova.edu or visit www.villanova.edu/igr.

Office of Health Promotion

The mission of Health Promotion at Villanova University is to provide health resources and services grounded in evidence. Facilitate opportunities for students to build skills that empower them to make healthy and responsible lifestyle choices. Instill a sense of personal responsibility for individual health decisions and recognize the impact those decisions can have on the Villanova community.

Health Promotion fulfills its mission through its comprehensive campus-wide change efforts

related to high-risk behaviors (e.g., alcohol abuse and sexual violence), first year learning community, POWER peer education and academic internship program, the Stall Street Journal and Student Health 101 publications, Web and print resources, one-on-one consultation, and the Thrive 365 initiative. To find out more about the Office of Health Promotion, please visit us on the first floor of the Health Services Building, call us at 610-519-7407 or e-mail us at healthbytes@villanova.edu.

Music Activities

The Office of Music Activities promotes, maintains, and supervises the creative and artistic endeavors of student performing groups on the Villanova campus.

These groups include:

- **INSTRUMENTAL:** The Villanova Band; Chamber Strings; Brass Ensemble; Woodwind Ensembles; Jazz Ensemble; Music and Instruments Club (MIC)
- **CHORAL:** Villanova Singers (male); Villanova Voices (female)
- **A CAPPELLA:** Haveners; Nothing But Treble; Minor Problem; Sirens; Spires; Supernovas; Vocal Minority; Measure Up
- **DANCE:** Villanova Dance Team; Twirlers; Dance Company & Ensemble; Ablaze (Hip-Hop); Irish Dance Team; Nova Nassa (Indian Fusion/Bollywood); Nova Noise (Tap); Nova on Pointe (Ballet); Superlative (Hip Hop); Wazobia (African Dance)
- **THEATER:** Student Musical Theater (VSMT); Student Theater (VST); Music Activities Stage Crew (MASC)

For more information, visit the MUSIC ACTIVITIES website (<http://music.villanova.edu>).
PHONE 610-519-5050

Residential Facilities

The University maintains a variety of living facilities which are intended to serve as extensions of Villanova's learning environment.

Approximately 5400 students are housed on-campus across 18 traditional residence halls and 14 residential apartment structures. Lounge areas

and laundry facilities are available in most residence halls and dining facilities are conveniently located throughout campus.

Admission to the University as a resident and payment of the admission deposit guarantees placement in residential facilities for consecutive freshman, sophomore, and junior years. Beginning Fall 2020, on-campus residency will be available to limited number of Seniors via a housing lottery. Transfer students are not guaranteed on-campus residency. More information on residential facilities may be obtained by contacting Residence Life, Stanford Hall (610-519-4154) or by visiting our website: www.reslife.villanova.edu.

Student Health Service

The Villanova University Student Health Center (610-519-4070), is staffed by registered nurses 24 hours daily. The Student Health Center is open with limited hours during semester breaks and over the summer. Physicians and nurse practitioners are available weekdays by appointment.

Gynecologic services are provided by the nurse practitioners by appointment. Registered nurses provide 24-hour care to students who require inpatient treatment and observation, as well as to students who require walk-in care. Other medical services include diagnostic laboratory testing, administration of allergy injections and immunizations. In the event that a student requires emergency care, transportation is provided to a local hospital. Though students are not billed for physician or nurse practitioner visits, they are financially responsible for some medication and all laboratory fees, as well as consultation with specialists.

For information about health insurance requirements for students please see our website: <https://www1.villanova.edu/university/student-life/health-services/health-center.html>. The Health Center is located in the Health Services Building, Third Floor.

Student Involvement

Dedicated to the Augustinian mission of the University, the Office of Student Involvement seeks to foster the growth of the total person, one who builds community, values differences,

leads ethically, and serves others. The office also provides a variety of services, programs, and activities which enhance campus life. The Office of Student Involvement enriches the student collegiate experience and serves the campus community through the active involvement of students, faculty, and staff in quality programs and organizations. Life at VU is filled with many opportunities for you to become an integral part of the Villanova community, as well as enriching your time at the university. There are so many options to choose from that will add to your experience on campus. Our office oversees the administration of over 200 student organizations at Villanova. Its aim is to provide a co-curricular program emphasizing leadership skills and co-curricular learning. The interest areas represented at Villanova include: governance, programming, student media, politics, academics, cultural activities, honor societies and special interest groups.

A complete listing of organizations and information on how to join can be found in the Office of Student Involvement, 102 Dougherty Hall (610-519-4211).

Student Organizations

Getting involved with a student organization can enhance the college experience. Organizations exist for a variety of purposes including: Academic and Professional, Athletics, Cultural, Fraternity/Sorority Life, Media, Music, Dance, Student Theater, Peace & Justice, and Political. Students also can start a club if an existing one does not meet their interests. For more information visit <https://www1.villanova.edu/university/student-life/student-involvement.html> for a list of the many options on how to get connected to student organizations on campus.

University Shop

The Villanova University Shop is the on-campus provider of merchandise and course-related items for Villanova University. The University Shop provides textbooks, a full selection of school supplies, calculators, and study aids. Our authentic assortment of Villanova fan gear includes t-shirts, sweatshirts, shorts, pants, hats and accessories for men, women, and children. We also carry a full assortment of drinkware, home accessories and gift items as well as dorm essentials. Our technology department features

Apple products as well as phone cases, chargers, cables, printers, speakers, and more. Order online at www.villanovabookstore.com and take advantage of our free in-store pickup option, which is a huge time saver when classes begin.

Veterans Benefits

Veterans Benefits

[Download as PDF](#)

The School Certifying Official (SCO), located in the Registrar's Office (Room 109, St Mary's Hall) serves as a liaison between the University and the Veterans Administration. Veterans, Military Students, and dependents, who will be registering for the first time must apply for their benefit by submitting VA 22-1990 or VA 22-2990e (transfer of entitlement) with the Veterans Administration. Application for VA Benefits is available online through the Department of Veteran Affairs online application <https://www.va.gov/>. Once the application is processed, the VA will send the student a Certificate of Eligibility (COE). This needs to be sent to the SCO prior to any enrollment certification. After the student has registered for the appropriate courses, the student needs to submit an [Enrollment Verification Form](#) so the enrollment certification will be transmitted to the Veterans Administration to secure payment of benefits. Veterans who transfer from another institution must complete VA Form 22-1995, "Request for Change of Program or Place of Training," available online through the Department of Veterans Affairs website: <https://www.va.gov/>. The veteran must submit the COE along with the [Enrollment Verification Form](#) to the SCO. The enrollment certification will then be transmitted to the Veterans Administration to secure payment of benefits. It is the Veteran Student's responsibility to submit an Enrollment Verification form each semester after they have registered that they plan to continue to use their VA benefits, so that their credits may be certified with the VA in a timely manner.

Please contact the School Certifying Official, Amy Rockwell at 610-519-4034 for more information or for any questions that you may have.

More information can be found at <https://www1.villanova.edu/university/veterans-military-service-members.html>

Veteran and Military Students

Military Tuition Benefit Verification: GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). For more information about VA educational benefits, please visit the official Veteran Affairs website at <https://www.va.gov/education/>. The VA determines student eligibility to receive educational benefits. Students should apply for their VA educational benefit electronically by utilizing the Vets.gov (<https://www.va.gov/>) or eBenefits (<https://www.ebenefits.va.gov/ebenefits/homepage>) websites. Students will fall into one of two categories: "Initiating VA benefits for the First Time" or "Resuming VA Benefits".

Certification depends upon a student's VA determined eligibility, enrollment status and program of approved study. To verify that either a degree or a non-college degree (NCD) is approved for VA benefits, students can visit WEAMS <https://inquiry.vba.va.gov/weamspub/buildSearchCountryCriteria.do>. This website has a search filter from which students can look up Villanova University to see a list of approved degree programs and Non-College Degree (NCD) Programs.

At Villanova, Veteran certifications are processed within the Office of the Registrar by a School Certifying Official (SCO). SCO contact information is provided at <https://www1.villanova.edu/university/enrollment-management/registrar.html>. Students should notify their Program Coordinator or online Enrollment Representative as well as the SCO of any enrollment changes.

If a student would like to check on the status of their application, remaining entitlement, or any other general questions, they should contact the Department of Veteran Affairs educational hotline: 1-888-GI-BILL-1 (1-888-4424551) or submit a question electronically through Ask a Question. Villanova personnel cannot provide advisement or counseling related to Veteran benefits.

Military members who are eligible for Military Tuition Assistance (TA) can use TA for approved

NCD courses. TA can lessen a student's financial concerns considerably since it now pays up to 100 percent of tuition expenses for semester.

In accordance with Title 38 United States Code Section 3679(e), Villanova University will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a Covered Individual borrow additional funds, on any Covered Individual because of the Covered Individual's inability to meet his or her financial obligations to Villanova University due to the delayed disbursement of funding from the VA under Chapter 31 or Chapter 33.

Covered Individuals should provide to the School Certifying Official (SCO) (email: veterans@villanova.edu; phone: 610.519.4034), no later than the first day of a course of education: a certification of eligibility for entitlement to education assistance, along with the Enrollment Verification Form. A certificate of eligibility can also include a statement of benefits obtained from the VA website www.benefits.va.gov/gibill, e-benefits <https://www.ebenefits.va.gov/ebenefits/homepage> or a VAF 28-1905 form for Chapter 31 authorization purposes.

This policy applies during the period beginning when a certification of eligibility is provided to the SCO (no later than the first day of a course of education) and ending on the earlier of one of the below dates:

- The date on which payment from the VA is made to Villanova University.
- 90 days after the date Villanova University certified tuition and fees following the receipt of the certificate of eligibility.

Admissions

General Policy on Undergraduate Admission

Villanova seeks to enroll students who excel academically and possess wide interests and

positive qualities of character. In selecting members of the first-year class from the large number of qualified candidates who meet the minimum quantitative and qualitative requirements, the University undertakes to admit those who appear best prepared to benefit from the programs of study offered.

The criteria used to assess academic potential are: the scholastic record as reflected by the rigor of courses chosen in high school and the quality of performance; rank in class (where rank is reported); scores earned the SAT and/or the ACT; participation in extracurricular and community service activities; secondary school counselor and teacher recommendation; and essays.

Students are holistically selected on the basis of individual merit. The University does not discriminate against applicants seeking admission because of their race, color, national or ethnic origin, religion, sex, sexual orientation, gender identity, age, disability, veteran status or family financial status.

Required and Elective Units for Admission

Although individual consideration is given to each applicant, it is expected that all applicants, except in most unusual circumstances, will minimally satisfy the unit requirements listed below the college to which they make application. As used here, a unit represents a year's work in any subject. Each college requires 16 units.

College of Liberal Arts

For Liberal Arts Curriculum:

Biology	1 Mathematics	3
English	4 Science	2
Foreign Language	2 Electives	3
History or Social Science	2	

For Applied and Life Science Curricula:

English	4 Foreign Language	2
Chemistry	1 Physics (recommended)	1
Mathematics	4 Electives	4

Villanova School of Business

English	4 Science	1
History	2 Electives	5
Mathematics (Calculus preferred)	4	

College of Engineering

English	4 Physics (required)	1
Chemistry	1 Electives	6
Mathematics	4	

College of Nursing

English	4 Mathematics	3
History	2 Electives	2
Biology	1 Other Science	1
Chemistry	1 Foreign Language	2

Elective units acceptable in all colleges:

Latin	2 Social Studies	2
Foreign Language	2 Mathematics	2
History	2 Laboratory Science	2
Chemistry	1	
Biology	1	
Physics	1	

Health Affiliation Program

Villanova University has accelerated Health Science Affiliation programs with a number of institutions including the University of Pennsylvania School of Dental Medicine, and the Pennsylvania College of Optometry at Salus University. Completed applications to these programs must be received by the Office of Undergraduate Admission no later than November 1. The SAT and/or ACT must be taken no later than October of the senior year.

Early Action

Early Action admission is awarded to those exceptional students who have outstanding high school records, rigorous curricula, and correspondingly high SAT or ACT scores as judged by the Committee on Admission. Applicants will be evaluated on the basis of their three-year record and scores on the SATs and/or ACTs taken no later than October of the senior year. Note that Villanova may be test (SAT or ACT) optional in a given year and details will be provided on the University's Office of Undergraduate Admissions' webpage.

For Early Action, the completed application must be received by the Office of University Admission no later than November 1. Every effort will be made to notify all Early Action applicants by January 15. These applicants need not apply only to Villanova. Deferred applicants will also be notified and will be reconsidered in the Regular Decision applicant pool; candidates may also be denied admission at this time. The Committee on Admission reserves the right to admit, defer, or deny any candidate for Early Action.

Early Decision

For students who have decided that Villanova is their first choice after a thorough and thoughtful college search, we offer a binding Early Decision 1 plan. With a deadline of November 1, all applicants will be notified of their decision by December 15. An Early Decision Form must also be submitted by November 1 with all required signatures. The Early Decision Form is available on the <https://www.commonapp.org/> website.

All standardized test results (SAT and/or ACT) must be submitted directly to Villanova and taken no later than November 10 of the senior year for ED consideration. We will also require a senior progress report with any grades that are posted by November 1. Note that Villanova may be test (SAT or ACT) optional in a given year and details will be provided on the University's Office of Undergraduate Admissions' webpage.

If you are applying for financial assistance, you must have all required documents including the FAFSA and CSS Profile submitted by November 1.

For those admitted through Early Decision 1, the non-refundable deposit of \$700 will be due by January 7, and all applications to other colleges and universities must be withdrawn.

For children of Villanova graduates, legacy affiliation will be given the most consideration through the Early Decision option.

We also offer a binding Early Decision 2 plan. This plan has an application deadline of January 15 (including FAFSA and CSS Profile if seeking financial assistance) with tests scores submitted by January 31. The non-refundable deposit is due by May 1.

Regular Decision

Applicants for Regular Decision may submit their credentials any time after August 1 prior to the start of the senior year. The completed application must be received by the Office of Undergraduate Admission no later than January 15. Applicants for Regular Decision will be evaluated on the basis of their three-year high school record (to include senior mid-year grades), rigor of curricula, and scores on the SAT and/or ACT taken no later than December of their senior year. Note that Villanova may be test (SAT or ACT) optional in a given year and details will be provided on the University's Office of Undergraduate Admissions' webpage. Every effort will be made to notify all applicants by April 1 of the following appropriate decision: admittance, waiting list, denial, scholarship award, loan assistance and/or grant-in-aid. To secure a place in the class, admitted students must submit a non-refundable registration deposit of \$700 no later than May 1.

Students who are admitted as resident students and pay the \$700 enrollment deposit by May 1 are guaranteed three consecutive years (first year, sophomore and junior) of on-campus housing. Students accepting the University's offer of admission are advised to submit their registration deposits on-line or by check, credit card, or money order payable to "Villanova University" as soon as possible. The deposit is non-refundable and is applied toward the student's first semester account.

Application Procedure

To ensure proper processing of applications for admission, all candidates should follow the procedure outlined below:

Complete the online Common Application with the Villanova Member Section by the appropriate deadline at www.commonapp.org. (This includes the submission of the Common Application and Villanova essay along with the \$80 application fee. Villanova participates in various fee waiver programs for eligible students.) Notify their secondary school counselor or other educational professionals to submit Secondary School Counselor section of the Common Application and official high school transcript to the Office of Undergraduate Admission. The completed admission applications must be received by

Villanova no later than November 1 for Early Action, Early Decision 1, and Health Affiliation Programs; December 1 for Presidential Scholarship (including nomination) consideration and Villanova Scholarship consideration; and January 15 for Regular Decision and Early Action 2 consideration.

Villanova offers the applicant the option to self-report your SAT and/or ACT scores in the testing section of the Common Application. Should you choose, you may also have your official score sent to Villanova, but this is not necessary for your application to be reviewed. If you are admitted and choose to enroll, we will require that the official scores be sent directly from the College Board and/or ACT. Any misrepresentation of these scores will result in the denial or recession of admission.

Submit one teacher recommendation online through the Common Application. (A paper copy will be reviewed, but may not become part of the applicant's file.)

Transfer Students

Candidates for admission who have attended other colleges and universities should submit applications for transfer to the Office of Undergraduate Admission of Villanova University no later than June 1 for the fall and November 1 for the spring semester (unless otherwise stipulated).

The transfer applicant must submit complete seal-bearing transcripts from all the college/university and secondary schools attended, a list of courses in progress, a catalog describing courses completed at the college-level institution, evidence of honorable withdrawal (Common Application Transfer College Report), essay and any other information the Admission Committee may require. Transfer students are required to choose a major at the time they apply.

Admission criteria vary slightly contingent upon the college or academic program to which a candidate applies. A cumulative grade point average of 3.00/4.00 is recommended for students interested in transferring to Villanova. Admitted transfer students into the College of Liberal Arts and Sciences are not eligible to transfer internally to one of the other Villanova academic colleges. If you intend to earn a degree

from the Villanova School of Business, the M Louise Fitzpatrick College of Nursing, or College of Engineering, you must apply directly to that college.

Transfer credit towards undergraduate degrees will, in general, be granted for appropriate academic work completed with a grade "C" (2.00) or better at an accredited institution. Credit may be granted for courses without direct Villanova equivalents when such courses are of clear academic merit. Quality-grade points for work taken elsewhere are not included in the calculation of the student's cumulative average used to determine advancement at Villanova and eligibility for graduation. The final thirty credits (senior year) of a degree program and at least half of all major courses must be taken at Villanova.

Candidates for admission from junior colleges, community colleges or institutes are judged by the same regulations pertaining to applicants from four-year institutions. Credits will be granted, as above, for appropriate courses completed in a two-year program, provided that the institution is regionally accredited or a candidate for such accreditation.

Transfer students from two-year programs should note that graduation after two years of study at Villanova cannot be guaranteed because of the complexities of scheduling and the fulfillment of the requirements of Villanova's program.

Applications for transfer of credit from non-accredited institutions are considered on an individual basis. Credit is granted for those courses that are of clear academic merit and in which the transfer applicant has earned grades. In all cases, the University reserves the right to require a written examination in the course or courses in question before transfer credit will be granted.

International Students

Villanova University admits to its undergraduate program citizens from other countries who meet the appropriate criteria. International students are admitted to begin their studies in the fall semester only. The final date for receipt of the application for undergraduate students is January 15.

To be considered for admission, international students must submit the same admission application and supporting academic credentials, and all non-native English speakers must take an English language proficiency test such as the TOEFL or IELTS. Official results must be sent directly to the University. For admission consideration, candidates must attain a minimum score of 90 on the iBT (internet based), or 577 on the paper based TOEFL; or a band score of 6.5 on the IELTS. This requirement may be waived for students who have completed at least three years of secondary education at an American or International School where English is the primary language of instruction or for students who have achieved a 620 on the Evidence-based Reading and Writing section of the SAT.

All undergraduate international students should note that they must pay a non-refundable tuition deposit of \$700 by May 1 and submit a Certification of Finances form and supporting bank letter prior to the issuance of the form I-20.

International students are eligible to compete for some merit-based and athletic scholarships. Need-based financial aid is available to first-time freshman international students from University sources on a limited basis.

Advanced Placement and International Baccalaureate Credit

Villanova recognizes advanced standing from the College Board's Advanced Placement program (AP) and from the International Baccalaureate Programme (IB). Students who have taken these courses should report to their College Dean's office to verify Villanova's receipt of the scores to ensure that proper adjustments have been made to their academic records. The courses will be entered into the student's record with Villanova credit without a grade. In some cases, the Advanced Placement or International Baccalaureate results may allow the student to place out of a lower level course, but will not be counted as credit.

The following AP courses will receive Villanova credit if a student receives a score of 4 or 5:

U.S. History (07); Art /Art History (13); Biology (20); Calculus (66 or 68); Calculus Subgrade (69); Chemistry (25); Computer Science (31); Economics (34 and 35); English (36 or 37); European History (43); Chinese Language and Culture (28); French (48); Japanese Language and Culture (64); Italian Language and Culture (62); Latin (60); Environmental Science (40); Human Geography (53); Physics (80 or 82); Political Science (57 or 58); Psychology (85); Spanish (87 or 89); Statistics (90); World History (93).

Only International Baccalaureate Higher Level course work will be considered for credit. The following Higher Level IB courses will receive Villanova credit if a student receives a score of 6 or 7: Anthropology; Biology; Chemistry; Computer Science; Computer Science Information Technology; French A; English; Economics; Geography; History: Americas; History: Europe; Italian; Latin; Mathematics; Mathematics Further; Music; Philosophy; Physics; Psychology; Spanish A. Students also receive credit for score of 5 in Computer Science H L, Computer Science Information Technology, English, Economics, Geography, and Mathematics Further.

Credit by Examination

Qualified matriculated students may test out of selected courses and receive full credit for them. Such courses are graded on a "Satisfactory/Unsatisfactory" basis; however, a failing grade will not appear on the student's transcript. Applications and information are available in room 107, St. Augustine Center.

Transfer within the University

When a student transfers from one college to another within the University, the Dean may delete from the computation of the Grade Point Average courses which are not applicable to the new program.

However, if such a student returns to her or his previous college, the Dean of that College will notify the Registrar to reinstate those courses. The grades and any credits earned will again be computed in the Grade Point Average.

Pre-Matriculated College Credit

Pre-Matriculated College Credit

College-level work completed prior to high school graduation, including college courses that fulfill high school graduation requirements, must meet the following criteria to be considered for transfer credit:

1. The course must be taught by a member of a college or university faculty for college students and enroll college students
2. If the course is taught on a high school campus, by high school faculty members, and the enrolled students are only high school students, then the course is not eligible for transfer credit

If the above criteria are met, then send to the Dean of the College in which the student is enrolling:

1. an official letter from the high school principal, secondary school counselor or other educational professional describing the college-level program of study
2. an official letter from the college/university stating that the courses were taught by members of the regular faculty, open to enrollment by and graded in competition with regularly matriculated undergraduates at the college and a regular part of the normal curriculum published in the college catalog
3. a course syllabus
4. an official, seal-bearing transcript from the college/university showing a grade of C or better
5. With respect to courses taught in a distance learning format, and for other requirements, each academic program will review on a case-by-case basis

If the courses taken by high school students do not meet the above criteria, the student may decide to pursue a [Challenge Exam](#) after enrollment at Villanova.

All pre-matriculated credit must be accepted and approved before the completion of two semesters at Villanova.

February 24, 2014 (Council of Deans); Technical Edits April 12, 2023

Tuition and Fees

Undergraduate Colleges and Programs Tuition (Per Year)*

	Tuition	Per Credit Rate	Undergraduate Student Services Fee
All Undergrad Colleges	\$69,846	\$3,881	\$980

Villanova begins producing Fall semester bills in July (due in August and Spring semester bill in November (due in December)

Semester charges are:

Semester Tuition Rate	Per Credit Rate	Undergraduate Student Services Fee
\$34,923	\$3,881	\$490

1. Undergraduates are charged the semester tuition rate if they are enrolled in 9 credits or more in that semester. If enrolled in less than 9 credits undergraduates are charged the per credit rate for each credit hour taken.
2. An Orientation Fee is charged to first year students - \$286.

Please note the semester tuition rate is charged to students enrolled in 9 credits or more.

Full-time enrollment for federal, state, and institutional aid is defined as 12 or more credits a semester.

Athletic aid and participation, housing access, etc. is also defined as 12 or more credits a semester.

Fees

Application Fee	\$80 (non-refundable)
Tuition Deposit (Deposit due upon acceptance; credited to account upon registration)	\$700 (non-refundable)
Orientation Fee	\$286 (new students only)
Late Registration Fee	\$25
Late Payment	\$300

Returned Check Charge	\$30
Monthly Service Fee	\$10 per Month (for Past Due Accounts)
Parking Fee (Annually)	\$100
Reinstatement Fee	\$250
Credit by Examination	\$125 per credit hour
Nursing Pre-Licensure Exam Fee	TBD
Housing (Depending on Accommodations)	\$4,310-\$6,882/semester
Meals (Depending on Meal Plan)	\$2,650-\$4,650 (\$1,385 available for commuter/semester)

**Subject to change at the discretion of the University Administration.*

***A Late Payment fee is charged to any account which is not paid in full by the official first day of class.*

Once a student is registered, they will receive a bill and tuition is due by the due date shown on the bill. If a student registers after the due date, payment will be due upon receipt of the bill. Registration or the release of academic records cannot be completed until all financial obligations have been settled with the Bursar's Office. In addition to the above expenses, students should include expenses for textbooks, laundry, clothing, personal effects, and travel between the University and their homes in their educational costs.

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Tuition for International Studies

Villanova charges current students full tuition for all Fall and Spring term International Studies programs. Villanova students will be eligible to use Villanova University financial aid (i.e. grants and scholarships) to assist with study abroad tuition costs as long as those funds do not carry policy constraints or conditions which would restrict their use for this purpose.

If a recipient institution's tuition exceeds Villanova's, the University is obligated to pay a maximum amount equal to that of the normal Villanova tuition for that academic term's undergraduate tuition. Villanova will not pay for room, board, travel, books, brokerage or associated non-academic fees of an international studies experience.

There are special considerations for students on tuition remission programs. These students should check with the International Studies program for details.

College of Professional Studies, Tuition and Fees 2025-2026

Part Time Program Rates	2025-2026
Tuition Evening Rate (per credit)	\$815
Tuition Day Rate (per credit)	\$1,350
Visiting Student Rate (per credit)	\$1,455
General University Fee (per semester)	\$15

Fees for Undergraduate, Post-Baccalaureate, and Paralegal Programs	2025-2026
Application Fee (Non-refundable)	\$50
Late Registration	\$25
Late Payment	\$200
Returned Check Charge	\$30
Monthly Service Fee	\$10 per month (for past due accounts)
Reinstatement Fee	\$250
Parking Fee Night Courses Only	\$50
Parking Fee Day Courses Only	\$100

Refund Schedule

Fall/Spring Semester Refund Policy

Segment of Semester Refund

Up to first week	80%
Up to second week	60%
Up to third week	40%
Up to fourth week	20%
Beyond fourth week	No Refund

(For Summer Semester policy, please see Bursar's website: <https://www1.villanova.edu/university/financial-affairs/bursar.html>.)

Refunds as a result of official withdrawal will be made according to the following schedule. Excluded from the refund calculation will be the costs related to on-campus housing and university meal plans. Activity, library, and medical fees are not refundable. There will be no refund for unauthorized withdrawals. Students who do not register or who notify the Registrar's Office prior to the first day of class that they will not enroll are entitled to a full refund.

In addition to the University's refund schedule and in accordance with the Higher Education Amendments of 1992, if a student completely withdraws from the University and has utilized Federal Title IV funds (e.g. Federal Pell Grant, Federal Supplemental Educational Opportunity Grant [SEOG], Academic Competitiveness Grant, National SMART Grant, Federal Direct Stafford Student Loan, Federal Direct PLUS, Federal Direct Graduate PLUS), during the semester in which they withdraw, the University will observe the federally mandated process in determining what, if any amount of money must be returned to the federal program (s). For more information on the Return of Title IV Funds please visit: <https://www1.villanova.edu/university/office-of-financial-assistance/Policies/return-of-title-IV-funds.html>.

Financial Assistance

The cost of a college education is a major concern facing parents and students. Villanova University recognizes this fact and attempts to provide a comprehensive package of financial assistance consisting of need-based grants, loans, and student employment. In addition to these need-based programs, Villanova offers several merit-based scholarships.

Scholarships

Listed below are scholarship programs awarded by the University to entering first-year students.

Presidential Scholars Program. The Presidential Scholars Program is a renewable, merit-based award covering undergraduate Villanova University tuition (fall and spring semesters), on-campus housing, a meal plan that includes up to 21 meals per week, the UG student services fee, and the Textbook Access Program book fee to the completion of one undergraduate degree or up to eight semesters, whichever comes first. Presidential Scholars are transformational leaders both on and off campus who have demonstrated a love of learning and a commitment to enhancing both their local and broader civic communities. Villanova Presidential Scholars represent diverse intellectual, social, ethnic, and economic backgrounds.

For more information regarding the Presidential Scholars Program, visit the following website: Center for Research and Fellowships: <https://www1.villanova.edu/university/research-scholarship/crf/presidential-scholars.html>

St. Martin de Porres Scholarship. St. Martin de Porres is the patron saint for those seeking harmony regardless of identity. In honor of his legacy and dedication to equality, Villanova University offers competitive scholarships to academically talented students who have a passion for and demonstrated commitment to advocacy and social justice. This scholarship covers the full cost of tuition and UG Student Service Fee.

All eligible applicants will be considered for this award. You must first submit a complete application for admission as a first-year student. Applicants are also required to complete the FAFSA, the CSS Profile and any applicable state grant application as the award may be reduced by any Federal Pell or state grant funding. Incomplete applications for admission and/or financial assistance will not be eligible for consideration.

Additional information will be sent to you via email once your completed application is received. Incomplete applications for admission and/or scholarship will not be eligible for

consideration. The selection committee will review qualified applicants and notify recipients by April 1.

Denise McNair Memorial Scholarship. The Denise McNair Memorial Scholarship has been instituted in memory of Denise McNair who, on Sunday, September 15, 1963, died in the early days of the civil rights movement in a racially motivated bomb attack at the Sixteenth Street Baptist Church in Birmingham, Alabama. This Scholarship, valued at full tuition for eight consecutive regular semesters (not including summer), will be awarded to a first-year student with a faith-based background who is interested in social justice and advocacy. The McNair Scholarship is awarded every four years to an entering first year student. Therefore, this scholarship will next be awarded to an entering first-year student entering fall 2024.

To apply, you must have already submitted a completed application for admission as a first-year student. Then, you must submit the McNair Memorial Scholarship application no later than February 1 and the required essay by February 7. Applicants may apply for admission via Early Action, Early Decision (both November 1 deadlines) or Regular Decision (January 15 deadline).

Additional information will be sent to you via email once your completed application is received. Incomplete applications for admission and/or scholarship will not be eligible for consideration. The selection committee will review qualified applicants and notify recipients by April 1.

Goizueta Foundation Scholars Fund. The Goizueta Foundation Scholars Fund has been instituted for the purpose of providing need-based scholarship assistance to those who have extensive personal interest, involvement, and experience in the Hispanic/Latino culture. The award (of a varying amount) is made to students who are U.S. Citizens or permanent residents and whose families currently reside in the United States, who come from communities or populations that have been historically underrepresented in the student body at Villanova, who have demonstrated financial need and who have demonstrated outstanding academic achievement. This award will be granted to two entering first-year students. This scholarship is renewable for a total of eight

consecutive full-time undergraduate regular semesters (not including summer). Returning undergraduate students will be considered for scholarship renewal on the basis of their academic performance and financial need.

All eligible applicants will be considered for this award. You must first submit a complete application for admission as a first-year student. Applicants are also required to complete the FAFSA, the CSS Profile, and any applicable state grant application as the award may be reduced by any Federal Pell or state grant funding. Incomplete applications for admission and/or financial assistance will not be eligible for consideration.

Additional information will be sent to you via email once your completed application is received. Incomplete applications for admission and/or scholarship will not be eligible for consideration.

Villanova National Merit Scholarship. These awards, ranging from \$500 to \$2,000, are offered to top students who are designated as finalists by the National Merit Scholarship Corporation and who selected Villanova University as their first college choice. Students should file the Free Application for Federal Student Aid (FAFSA) and the CSS Profile so that the proper award amount can be determined.

Army ROTC. For recipients selected by the Army ROTC program Villanova University agrees to fund U.S. Army scholarship winners with an amount not to exceed \$5,000 to be used for University housing and meal charges only.

Naval ROTC. For recipients selected by the Navy ROTC program Villanova University agrees to fund U.S. Navy scholarship winners with an amount not to exceed \$5,000 to be used for University housing and meal charges only.

Student Financial Aid

To apply for all types of student aid, prospective full-time first-year students must file the Free Application for Federal Student Aid (FAFSA) for consideration for federal and state aid and the CSS Profile (Custodial and Non-Custodial) for consideration of University (institutional) aid. To receive priority consideration for financial aid, applicants must file the FAFSA and CSS Profile

by November 1 (Early Decision); December 1 (Early Action) and January 15th (Regular Decision). Additionally, for students who wish to be considered for need based assistance, signed copies of the student's and custodial parents' and stepparent's (if applicable) U.S. or Puerto Rico Tax Returns, W-2 form(s) and 1099 form(s) must be submitted to the College Board Institutional Document (IDOC) Service no later than November 1 (Early Decision); December 1 (Early Action) and January 15th (Regular Decision). Late applicants will be aided only if funds remain available. Students and parents are also required to use the Future Act Direct Data Exchange to import their tax information from their filed federal tax forms directly into the FAFSA on the Web if selected for verification (see below). If unable to use the Future Act Direct Data Exchange the student and parent will need to submit a U.S. Tax Return Transcript to the Villanova University Office of Financial Assistance.

A limited number of accepted Full-time International Students may be reviewed for need-based Villanova University Grant Assistance. Applicants must file the CSS Profile by November 1 (Early Decision); December 1 (Early Action) and January 15th (Regular Decision) to receive consideration for need-based funding. International students are awarded two forms of funding: student employment and Villanova Grant. In addition to the CSS Profile, Villanova requires the following documentation to be submitted to determine financial need: A letter from each parent's employer verifying either the monthly or annual income, a Certificate of Finances verifying what their annual family contribution will be along with a bank letter to support their family contribution. The Certificate of Finances and bank letter are also requirements of the Admissions Office in generating the student's visa. International students, who are not funded in their freshmen year, will not be reviewed for funding in future years.

A limited number of accepted Full-time freshmen Undocumented students who live in the United States without an approved visa, or without permanent residency/citizenship may be eligible for consideration of need-based financial assistance. To receive consideration for financial aid, applicants must file the FAFSA and CSS Profile by November 1 (Early Decision); December 1 (Early Action) and January 15th

(Regular Decision). Students and parents are also required to submit signed copies of their Federal Tax Returns and schedules (if applicable), along with copies of all Federal W-2, 1099 and/or 1099R forms. Undocumented students who are not funded in their freshmen year, will not be reviewed for funding in future years. Transfer students should consult the Office of Financial Assistance website: <https://www1.villanova.edu/university/office-of-financial-assistance.html> for additional information and application deadlines.

Students applying for admission through the College of Professional Studies or students seeking a second baccalaureate degree should consult the Office of Financial Assistance website: <https://www1.villanova.edu/university/office-of-financial-assistance.html> for additional information and application deadlines. Some programs of aid may not be available to these students.

All returning undergraduate students wishing to be considered for federal or state aid must reapply and must file the Renewal FAFSA. Returning students who are new financial aid applicants must file an original FAFSA for consideration for federal and state aid. Returning undergraduate students must also complete the CSS Profile to be considered for University (institutional) aid. To receive priority consideration for financial aid, returning undergraduate applicants must file the FAFSA and CSS Profile by May 1. Both new and renewal applicants who are not Pennsylvania residents should file the appropriate application for State Grant consideration in their home state. Additionally, signed copies of the student's and custodial parents' and stepparent's (if applicable) U.S. or Puerto Rico Tax Returns, W-2 form(s) and 1099 form(s) may be requested and must be submitted to the College Board Institutional Document (IDOC) Service. Late applicants will be aided only if funds remain available. Students and parents are also required to use the Future Act Direct Data Exchange to import their tax information from their filed federal tax forms directly into the FAFSA on the Web if selected for verification (see below). (Returning students and parents are encouraged to use the Future Act Direct Data Exchange if their tax returns have been filed to facilitate the Renewal FAFSA application process.) If unable to use the Future Act Direct Data Exchange the student and parent

will need to submit a U.S. Tax Return Transcript to the Villanova University Office of Financial Assistance.

Returning Full-time International Students who received need-based Villanova Grant funding are required to file the CSS Profile no later than May 1 in order to be reviewed for renewal of funding. The Certificate of Finances is not required after the student's first year. However, students and parents may be required to submit employer letters and bank letters supporting the family contribution.

Please refer to the section below titled Verification for additional information and/or requirements needed in order to receive financial assistance.

Throughout the application process prospective students are to check their Applicant Status Page. All enrolled students are to check on the status of their application via MyNova. Additionally, aid eligibility is posted to the Applicant Status Page and MyNova. Returning Undergraduate and Graduate students will be sent an email indicating when their financial aid eligibility is available to be viewed on MyNova. Freshmen and transfer students will be sent their original aid notice via regular mail and can also view their financial assistance package on their Applicant Status Page and MyNova, once a deposit is made. Once a student enrolls all subsequent award notices will be sent via email to the student's Villanova email address.

Additional information regarding the financial assistance process may be obtained via the Office of Financial Assistance website at <https://www1.villanova.edu/university/office-of-financial-assistance.html>. Students and families may also address questions or concerns to the Office of Financial Assistance via phone at 610-519-4010, fax 610-519-7599 or email at finaid@villanova.edu.

Financial Aid Packages

In addition to assistance from federal and state sources, students attending Villanova University may be considered for aid administered by the university which is provided through the generosity of individuals and organizations.

Villanova University believes the primary responsibility for meeting educational expenses belongs to both the parents and the student. However, Villanova University is committed to assisting with the needs of families for whom the needs analysis determines that they cannot afford the full cost of a Villanova education with financial aid packages from the following federal, state, private, and university sources:

Villanova University Grant. This need-based aid is an institutional grant based on the demonstrated financial need of the student and parent based on information on the CSS Profile, and tax documents. Students must be accepted/enrolled full-time (minimum of 12 credits per semester) in the day college in an undergraduate degree program and pursuing their first baccalaureate degree. All Villanova students must apply for need-based financial assistance each year to be considered for this program. This grant can most often be applied only to tuition charges billed by Villanova University during the academic year (i.e. during the Fall and Spring semesters) for a maximum of 8 semesters (4 years/degree completion - whichever occurs first), excluding summer terms, including semesters in which you do not receive the grant, regardless of the fact that a student may still have remaining Federal Title IV eligibility. To be given priority consideration for the grant, students must meet the application deadline. The Villanova University Grant may be replaced by endowed scholarship funds.

Federal Pell Grant Program. This is a federal grant for students demonstrating exceptional financial need and accepted/enrolled in an undergraduate degree program. Application for Federal Pell Grants may be made by submitting an initial FAFSA or a Renewal FAFSA. Part-time students may be eligible for Federal Pell Grants.

Federal Supplemental Educational Opportunity Grant (SEOG). This is a federal grant administered by Villanova University based on financial need. Only undergraduate degree candidates are eligible. Priority consideration is given to Pell Grant recipients who are enrolled full-time.

Federal Nursing Student Loan. This is a federal loan based on financial need for students accepted/enrolled in an undergraduate nursing program. The Federal Nursing Student Loan is a 5% interest loan and becomes payable nine

months after leaving the University, or nine months after the student is no longer enrolled at least half-time or is no longer in a Nursing degree program. Entrance and exit interviews are required by federal law. Due to limitations in our funding levels we have not been able to award Federal Nursing Loan funds to part-time students.

Federal Work Study (FWS). This is a federal employment program based on financial need for students who are accepted/enrolled in either an undergraduate or graduate degree program. Students are given the choice to work on campus (or off-campus if Pennsylvania domicile) with salaries set according to the job description. Students receiving work-study awards are limited to earning the amount of their initial allocation. Once that limit has been reached, students should contact a Financial Assistance counselor concerning further work study employment. Current work-study job listings are posted on the Office of Human Resources website: <https://www1.villanova.edu/villanova/hr.html>. Due to limitations in our funding levels we have not been able to award Federal Work Study funds to part-time or graduate students.

Pennsylvania State Grant. The Pennsylvania State Grant is based on financial need for students who qualify as Pennsylvania state residents and who are accepted/enrolled in an undergraduate program and enroll for at least six credits each semester. Eligibility is determined by the state. For State Grant consideration, students are required to file either an initial FAFSA or a Renewal FAFSA by May 1. Additional information on the Pennsylvania State Grant can be found at www.pheaa.org.

Other State Grants. Certain states allow residents to take their state grants into Pennsylvania for study at Villanova. Students are responsible for checking with the respective State Higher Educational Agencies for the correct application necessary for state grant consideration.

Outside Aid/Scholarships. Organizations outside Villanova University may provide scholarships or financial assistance to Villanova students. Students are responsible for consulting the individual organization for the proper applications and deadlines and for sending transcripts to the scholarship committee if required. NOTE: State, federal, NCAA and University regulations prohibit over awards. All

outside scholarships, whether based on academic merit, financial need or as a result of a benefit provided by the parents' employer will be counted as a source of aid and will be added to the student's total aid package. This may result in a reduction of a Villanova University Grant or federal or state aid. It is the student's responsibility to notify the Office of Financial Assistance concerning any outside aid received.

Any change in a student's financial or academic status may result in an adjustment to his or her aid. The Office of Financial Assistance retains the right to make any necessary changes.

Federal Direct Loan Program. This is an educational loan available to students accepted/enrolled on at least a half-time basis in an undergraduate or graduate degree program. Students must complete a Master Promissory Note (MPN) and Entrance Counseling with the U.S. Department of Education, who is the lender of the loan, at www.studentaid.gov. Eligibility for a Federal Direct Loan is based on cost of education, amount of other financial aid being received, as well as an expected family contribution towards educational costs. Students who demonstrate remaining financial need will qualify for the Federal Direct Subsidized Loan. Students without remaining financial need will be eligible for a Federal Direct Unsubsidized Loan and either need to make interest payments while enrolled or capitalize interest payments (i.e. add interest to the principal balance). Repayment of the Federal Direct Loan begins six months after the student leaves the University or is no longer enrolled at least half-time. The student has up to ten years to repay. The interest rate is currently fixed at 6.53% (24-25 academic year) for the Undergraduate Direct Subsidized and Unsubsidized Loans, and 8.08% (24-25 academic year) for the Graduate Direct Unsubsidized Loan. Any changes to the interest rate will be reflected on the financial aid website: <https://www1.villanova.edu/university/office-of-financial-assistance.html> should this occur. An origination fee of 1.057% for first disbursements after 10/1/2020 and before 10/1/2025. The fee goes to the government to help reduce the cost of the loan program. The maximum loan amount per year is \$3,500 for freshmen, \$4,500 for sophomores, and \$5,500 for juniors and seniors. Students may also qualify for an additional \$2,000 Federal Direct Unsubsidized Loan.

Additional information regarding the application process for the Federal Direct Loan program can be found on the Office of Financial Assistance website (<https://www1.villanova.edu/university/office-of-financial-assistance.html>) or the U.S. Government at www.studentaid.gov.

Nelnet Campus Commerce (Nelnet) Tuition

Payment Plan. The Nelnet Tuition Payment Plan allows students to spread their balance out over the semester for a small fee. There is no interest charged on the plan. **Nelnet Campus Commerce (Nelnet)** administers the program for Villanova University. Information on this program can be obtained via their website at <https://mycollegepaymentplan.com/villanova> or by calling them directly at 1-800-609-8056 .

Federal Direct PLUS Loan. Parents of dependent undergraduate students may be eligible to borrow up to Villanova's cost of education minus estimated financial assistance. Eligibility for this loan is based on creditworthiness and the interest rate currently is fixed at 9.08% (24-25 academic year).

The Federal Direct PLUS Master Promissory Note can be obtained from the U.S. Department of Education at <https://studentaid.gov>. A FAFSA must also be completed in order to receive a Federal Direct PLUS loan. An origination fee of 4.228% of the principal amount of each Direct PLUS will be charged for loans first disbursed after 10/1/2020 and before 10/1/2024. The fee goes to the government to help reduce the cost of the loan program.

Alternative Loans. Alternative or Private Educational Loans are loans administered by private lenders. These programs may be used to bridge the gap between cost and traditional need-based and/or merit-based assistance. Alternative loans require that the borrower (the student) and/or a co-signer be evaluated in order to determine if they meet minimum credit standards. Students may choose any alternative lender they wish but should carefully compare all options before selecting a lender. Additional information regarding how to compare Alternative loans can be found on the Office of Financial Assistance website (<https://www1.villanova.edu/university/office-of-financial-assistance.html>).

Information About Subsequent Award Years

Villanova University is committed to maintaining the total level of funding if the Expected Family Contribution remains similar from year to year. However individual components within the total funding package may change.

Need-based eligibility, including the Villanova University Grant could be affected (reduced or entirely removed) if the following circumstances occur in subsequent years:

- Any increase or decrease in the number of members in the household
- Any increase or decrease in the number of family members enrolled as full-time first time undergraduate students at a Title IV eligible college/university
- Receipt of outside aid (e.g. scholarships, state grants, tuition remission)
- Change in enrollment status from full-time to part-time
- Any increase or decrease in family income and/or assets
- Siblings Enrolled in Graduate School, as a Part Time Student, seeking a Second Baccalaureate Degree, or Enrolled at a community college or any military academies are not considered in determining the Expected Family Contribution (EFC) for purposes of awarding the need-based Villanova University Grant.
- Change in housing status
- Student's enrollment after 8 semesters (4 years)

Questions about how these circumstances could affect your aid should be addressed to the Office of Financial Assistance. We invite you to make an appointment to speak with a financial aid counselor if you anticipate there will be changes in the future so you can consider how that could affect your family's ability to pay for the entire academic period at Villanova.

Minimum Standards for Satisfactory Academic Progress for Financial Aid Applicants

Federal regulations require that an institution establish, publish, and apply reasonable standards for measuring whether a student, who is otherwise eligible for aid, is maintaining satisfactory academic progress in his or her course of study. The standards must be the same or stricter than the institution's standards for a student enrolled in the same academic program who is not receiving financial assistance. Listed below is the complete statement of Minimum Standards for Satisfactory Academic Progress for Financial Aid Recipients.

The purpose of this policy is to provide undergraduate students with information on Villanova University's Satisfactory Academic Progress Standard for Federal Title IV Sources of Aid (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant [SEOG], Federal Work Study, Federal Direct Subsidized Loan, Federal Direct Unsubsidized Loan, and Federal Direct PLUS Loan), as well as other Federal and Villanova University Need-Based Aid (Federal Nursing Loan, Villanova University Grant, and Villanova University Endowed Scholarships). This document describes the qualitative and quantitative standards that make up this policy, how standards are measured, and how financial aid is reinstated if eligibility is lost during enrollment.

Process Overview

The Office of Financial Assistance is required, in accordance with Federal Title IV regulations, to monitor satisfactory academic progress for students who receive federal financial assistance. In order to continue to receive financial aid while enrolled at Villanova University, undergraduate students must maintain the minimum standards as defined below. The Satisfactory Academic Progress standards for financial aid, listed below, are either the same or stricter than the individual Colleges' academic policy for students enrolled in the same academic program who are not receiving financial assistance.

Students must make both quantitative and qualitative progress towards their educational goals each academic year to receive federal and Villanova University need-based financial assistance. Villanova University's academic year consists of two regular semesters (fall and spring) and the summer sessions.

Qualitative Standard

Undergraduate students must maintain a minimum cumulative grade point average (GPA) of 2.00 calculated at the end of each academic year in order to be considered as a student making satisfactory academic progress for financial aid consideration. Only credits earned at Villanova University will affect the cumulative GPA calculation. The grade point average from transfer coursework at a previous college or university will not affect a student's Villanova University grade point average.

Quantitative Standard

Students must pass the minimum number of credit hours during the academic year associated with their enrollment status for that academic year. If a student is full-time, the student would be enrolled in a minimum of 24 credits for the academic year and must complete a minimum of 24 credit hours. If a student is enrolled three-quarter time for the academic year (9-to 11 credits per semester) the student must complete at least 18 credits per academic year. If a student is enrolled half-time for the academic year (6-to 8 credits for the semester), then the student must complete at least 12 credits during the academic year.

Credits are considered successfully completed when a grade of A, B, C, or D is earned.

Failures ("F" and "NF"), INCOMPLETES ("N"), WITHDRAWALS ("W," "WX", "Y"), MISSING GRADES ("NG"), Grade of Audit ("AU"), Grades of "In Progress" ("IP") are not successfully completed credits.

Repeated Coursework

As defined by the U.S. Department of Education, Villanova University will include and fund any repeated coursework previously taken by the student in his or her enrollment status one time. Villanova University will only allow a student to retake previously passed coursework one time and count the coursework in the student's

enrollment status (e.g., the student is retaking the coursework in an attempt to meet an academic standard such as a better grade) for financial aid consideration.

A student may not receive Federal or Villanova University funds to retake previously passed coursework if the student is required to retake the course due to the student failing other coursework. For example, if the student is enrolled in four classes in the fall semester and fails one of those courses, the Dean may require the student to repeat the previously passed three courses along with the course that the student failed. If the student retakes the four courses in the spring, only the course that the student failed may be counted toward the student's enrollment status.

Pace (Maximum Timeframe)

Within the Satisfactory Academic Progress Policy, Villanova University is required to establish a maximum time frame in which students must complete their program of study in order to remain eligible for financial aid funds. The maximum time frame for degree completion at Villanova University for an undergraduate student as defined by the U.S. Department of Education is 150% of the student's program(s) required credits.

Once a student reaches the maximum amount of credits attempted as specified by the program(s) for graduation, the student will be ineligible to receive further Federal Title IV aid. Students in this category may submit appeals in accordance with the Appeals section of this policy.

Note: The Villanova University Grant is only offered for a maximum of four academic years (eight semesters), excluding summer terms regardless of the fact that a student may still have remaining Federal Title IV eligibility.

Measuring Academic Progress

Academic Records are reviewed by the Office of Financial Assistance at the end of each academic year in May after spring grades are entered. Measurement begins with the Fall semester and ends with the last summer session. Students who were enrolled during the Fall and/or Spring semesters and who failed to meet the qualitative and/or quantitative requirements for academic progress can attempt to complete additional

credits and raise their cumulative GPA during the summer sessions at Villanova University. Upon completion of additional credits, a new determination of academic progress will be made.

All financial assistance applicants are subject to the Satisfactory Academic Progress Standards regardless of whether or not they received financial assistance previously. When the Minimum Standard of Academic Progress is Not Achieved. A student who does not make satisfactory academic progress will be placed on financial assistance suspension until the requirements are met. During this suspension, a student is denied Federal and Villanova University aid. The student will be notified in writing of the financial assistance suspension. Appeals. If a student has failed to achieve satisfactory academic progress, the student can appeal the decision to the Office of Financial Assistance. The appeal must be submitted in writing and specify the extenuating circumstances which prevented the student from achieving academic progress. The following types of mitigating circumstances may be considered when a student appeals, and are listed, as follows: injury or extended illness of the student, death in the family, or a change in educational objectives. Mitigating circumstances do not include the withdrawal from classes to avoid failing grades, pursuing a second major or a second degree. The student must explain what has changed that will allow him/her to make satisfactory academic progress by the end of the semester. A copy of the student's academic plan developed in conjunction with the student's faculty advisor, academic dean or his/her representative also must be submitted. The Office of Financial Assistance may request additional documentation and/or require a personal interview with the student.

Students must appeal within two weeks of receiving a notice from the Office of Financial Assistance of the financial aid suspension. Appeals will not be accepted after the two-week period has passed and the student will be responsible for all charges on their student account. The student will receive a reply from the Office of Financial Assistance within two weeks of receipt of their appeal.

A student who is denied assistance based on qualitative or quantitative standards will be considered for assistance when standards have been achieved.

Academic Plan

The academic plan is a written document developed by the student and his/her college that ensures the student is able to meet the University's Satisfactory Academic Progress Standards by a specific point in time. It could include qualitative and quantitative requirements necessary to achieve that plan. The academic plan could take the student to completion of their program rather than meeting the University's Satisfactory Academic Progress standard at a specific point in time as determined by an appropriate academic official.

Financial Aid Probation

Villanova University will assign this status to a student who fails to make satisfactory academic progress and who has successfully appealed and had eligibility for aid reinstated. If the Office of Financial Assistance determines that the Academic Progress Standards can be waived for one semester, the student will be placed on Financial Aid Probation. As part of the student's Financial Aid Probation, the Office requires a student, along with their academic advisor, to develop and submit an academic plan that includes a strategy of improving progress and reaching the student's educational goals. A student placed on Financial Aid Probation may receive Federal and Villanova University funds for one semester. The student will be required to meet the University's Satisfactory Academic Progress standards at the end of the semester or meet the terms and conditions of their academic plan as well as the plan established by the academic advisor.

At the end of the probationary semester, the Office of Financial Assistance will determine if academic progress requirements have been met or if the student continues on the path of the designated academic plan. If requirements have been met, the probationary status will be removed. If academic requirements have not been met, and the student has deviated from the academic plan, the student may not receive Federal or need-based Villanova University funds.

for the following semester. A student may only be granted one semester of Financial Aid Probation during their academic career.

Reinstatement of Financial Aid

Once financial assistance has been discontinued, it will be reinstated provided:

- The student has successfully achieved the required number of credits and cumulative grade point average; and,
- The student has requested reinstatement in writing.
- Reinstatement is not automatic. The student is responsible for making certain that the grades and credits completed have been properly posted to the academic transcript with the Office of the Registrar prior to requesting reinstatement of financial assistance.

Students are encouraged to file all financial assistance application forms by Villanova University's established deadline so that once reinstatement has been achieved, he or she can be considered for assistance as quickly as possible.

Students Returning After a Year or More

If a student previously left the university after failing to make satisfactory academic progress and returns to the university, the student is required to appeal his/her status. The student must submit an academic plan. If the appeal is granted, the student is placed on financial aid probation for one semester.

The student's academic status will be reviewed after the semester to determine if the student successfully made satisfactory academic progress.

Return of Federal Title IV Aid

If a student completely withdraws from the University and has utilized Federal Title IV funds (e.g., Federal Pell Grant, Federal Supplemental Educational Opportunity Grant [SEOG], Federal Direct Loan, or Federal Direct PLUS Loan, Federal

Direct Graduate PLUS Loan) during the semester in which they withdraw, the University will observe the federally mandated process in determining what amount of money, if any, must be returned to the federal program(s).

Students who intend to withdraw from the University must complete the process as outlined in the University Catalog under the Academic Policies section. In cases where a student has received federal financial assistance during that semester, the Office of Financial Assistance will determine what, if any, adjustment must be made. This determination will be based on the formula prescribed in the federal regulations for the return of Title IV funds. This determination is made on the basis of the number of calendar days completed in the semester prior to the student's notification to withdraw, divided by the total number of days in the semester. If the resulting percentage is greater than or equal to 60%, no return of federal funds will take place.

If the percentage is less than 60%, this percentage will be used to determine the portion of Title IV aid that has been "earned". The remaining amount must be returned in the following order:

- Federal Direct Unsubsidized Loan Federal Direct Subsidized Loan
- Federal Direct PLUS/Federal Direct Graduate PLUS Federal Pell Grant
- Federal SEOG Other Title IV Aid

NOTE: Refunds as a result of official withdrawal or leave of absence will be made in accordance with the University's refund policies which appear in the Tuition and Fees section of the Catalog.

A student who withdraws or takes a Leave of Absence from an online program will have their last date of attendance measured by their last academic related participation via their appropriate system. Academic activities include but are not limited to:

- Submitting an academic assignment
- Taking an exam, an interactive tutorial, or computer-assisted instruction
- Participating in an online discussion about academic matters
- Attending a study group that is assigned by the institution

- Initiating contact with a faculty member to ask a question about the academic subject studied in the course
- The academically related activity is NOT defined by:
 - Logging into an online class without active participation
 - Participating in academic counseling or advisement

For all programs offered in modules, a student is considered to have withdrawn for Title IV purposes if the student ceases attendance at any point prior to completing the module, unless the school obtains written confirmation from the student at the time of the withdrawal that he or she will attend a module that begins later in the same payment period (semester). If a school obtains a written confirmation of future attendance but the student does not return as scheduled, the student is considered to have withdrawn from the payment period (semester). A return of Title IV calculation will be processed at that time.

Students are required to return written confirmation within two weeks of being contacted by the Office of Financial Assistance. If not returned, a withdrawal calculated will be conducted. If the amount of money that must be returned to Title IV programs exceeds that which exists in the students account as a result of the University's refund policy, the student will be notified as to the amount of any grant money that must be repaid. This repayment must take place in order for a student to reestablish eligibility to receive federal funds in the future. Any loan proceeds must be repaid and will become part of the normal repayment procedures for the loan program.

Citizens and Eligible Non-Citizens

In order to receive federal or state financial assistance, a student must be a U.S. Citizen, a U.S. National, a U.S. permanent resident who has a Permanent Resident Card (Form I-551, since 1997) or Resident Alien Card (Form I-551, before 1997), or an otherwise eligible non-citizen with a temporary resident card (I-688); or must possess one of the following:

- A Form I-94 (Arrival-Departure Record) with an appropriate endorsement;
- A Form I-181 or I-181B that has been signed by a U.S. Citizenship and Immigration Services (USCIS) district director;
- An official statement granting asylum in the US; or
- Other proof from the U.S. Citizenship and Immigration Services (USCIS) that one is in the U.S. for other than a temporary purpose.

Students should check with the Office of Financial Assistance at Villanova University to see what documents are required. Students in the U.S. on an F1 or F2 student visa only, or on a J1 or J2 exchange visitor visa only, may not receive federal or state student aid, nor can those who possess only a notice of approval to apply for permanent residence (I-171 or I-464A).

Limited need-based University funds are available to International Students and Undocumented students who live in the U.S. without an approved visa, or without permanent residency/citizenship. For complete application information check the International Students Services Office website: <https://www1.villanova.edu/university/student-life/intl.html>

Verification

Verification is a requirement of the U.S. Department of Education and is the process of confirming information submitted for consideration of the various Federal Title IV Funds including the Federal Pell Grant, Federal SEOG and Federal Direct Loans. Applicants should be aware that this federal regulation requires them to submit tax data and other requested information to the Office of Financial Assistance before the processing of student loan applications and/or the awarding of funds. Students must submit the required information to complete the verification process no later than 45 days before the last day of the student's enrollment. Failure to comply with the verification requirements within the timeframe will result in the loss of funds.

Only students selected for verification by the U.S. Department of Education based on information on the FAFSA and determined by criteria set by the U.S. Department of Education or selected by a counselor will be verified.

Items to be verified include: adjusted gross income; U.S. income taxes paid; number of family members for whom parents provide more than half of their support; dependency status; eligible non-citizen status and any other item for which conflicting information has been submitted to the Office of Financial Assistance. Students selected for verification will be required to submit additional documents. These additional requirements will be reflected on the student's Applicant Status page (prospective students) and on the MyNova account (enrolled students).

Documents/Data Required

For dependent students): signed copies of custodial parents', stepparent's (if applicable) and student's U.S. or Puerto Rico income tax returns, W-2 form(s) and 1099 form(s).

Transfer of financial data from the Future Act Direct Data Exchange or submission of U.S. Tax Return Transcript (see Future Act Direct Data Exchange below for more information) (For independent students): signed copy of the student's (and spouse's if applicable) U.S. or Puerto Rico income tax return and W-2 forms.

If the student or custodial parent or stepparent (if applicable) did not file taxes or if a foreign tax return was filed, a signed non-tax filer statement and copies of all W-2 forms or proof of earnings must be submitted. Non-taxable income verification such as VA Benefits, Social Security Benefits for all household members and Public Assistance Letters must be submitted to the Office of Financial Assistance. CSS Profile for prospective students and all returning undergraduate students. *The CSS Profile form is required for consideration for institutional aid only.*

The Department of Education and the Internal Revenue Service have worked together to develop a process, known as the FUTURE Act Data Direct Exchange (FA-DDX). FA-DDX simplifies the steps to complete the Free Application for Federal Student Aid (FAFSA).

This tool allows families to consent for the exchange of federal tax information into the FAFSA. The process enables the FAFSA to retrieve income and tax data directly from the IRS.

All FAFSA applicants and contributors who indicate that they have filed their federal tax returns prior to completing their FAFSA may use the DDX process to complete their FAFSA.

Some will not be able to use the DDX. Some examples include parents of a dependent student who file separate tax returns, parents who have had a change in marital status after the end of the tax year, if anyone has filed an amended returns, or if the applicant or parents filed a foreign tax return.

If you are unable to use the DDX Tool you must request an IRS Tax Return Transcript to verify your income. There are a few options available to do so: 1) Get transcript online, 2) Get transcript by mail, or 3) IRS form 4506-T.

Academic Policies

The following policies and regulations, along with those of the individual colleges and programs, govern academic life at the University. In order that the programs offered reflect current advances in and additions to knowledge and changes in professional requirements, the University and each of its colleges reserves the right to change program requirements without prior notice. Unless otherwise specified, students are bound by the policies and regulations in effect when their entering class begins its first year of study. *It is the responsibility of the student to know and comply with the academic policies and regulations of the University and their respective colleges.* Students should consult the individual college sections of this Catalog and the special publications and guidelines issued by the colleges and departments.

Academic Dismissal

Academic Dismissal

1. An undergraduate student who has not met the academic standards of a college (as determined by the Academic Standing Committee and Dean of that college) will be dismissed from the college. The college dean will inform that student of the dismissal as soon as possible. Typically the student will be allowed to appeal that dismissal to the dean of the college. There is no additional process of appeal beyond

the college dean. In some cases (e.g., when the student has had previous warnings or been on probation), the student may, at the determination of the college, be dismissed without right of appeal.

2. Once a student has been dismissed from the college without right of appeal or once the appeal process has been exhausted, the student may not enroll in additional credit-bearing classes at Villanova, and may not remain in a University Residence Hall. A student who is dismissed from a college is dismissed from the University effective with the sending of the college dismissal letter. The college that dismisses the student will send a list of the dismissed students to the Office of the Provost. The Office of the Provost will compile a list of all students dismissed by the colleges and remove the names of students who are accepted to another Villanova college before sending the list of dismissed students to the Registrar, the Bursar, Residence Life and other appropriate university offices.

3. A student who has been dismissed from a college is eligible to apply to that college for readmission after two semesters (including the summer) have elapsed. For example, a student who is dismissed at the end of the fall semester may apply to be admitted for the following fall semester. The college reviewing the application will include a review of past discipline at Villanova University as well as whether the student has been dismissed by another College within Villanova University. A student who has been dismissed and then returns to the University will be treated as a continuing student, not a transfer student, for purposes of policies regarding courses taken elsewhere; in other words, such a student would not be permitted to transfer courses taken at a two-year institution.

4. If the student is already enrolled in spring semester courses when the dismissal letter is sent, the student must withdraw from those courses and leave his/her residence hall. Tuition for the spring semester will be refunded. Students enrolled in summer courses at the time the final dismissal letter is sent must also

withdraw from those courses, with tuition for the summer semester refunded. If a student has formally applied to another Villanova undergraduate college (see #5 below), a student may remain in classes and residence halls until a final decision is made.

5. A student who has been dismissed from Liberal Arts and Sciences, School of Business, Engineering, Nursing or the College of Professional Studies may apply at any time (either immediately or at any subsequent date) for admission to another Villanova undergraduate college. Such a student does not have to go through the University admissions' process. The request for readmission will be handled by the college to which the student has applied. The college reviewing the application will include a review of past discipline at Villanova University as well as whether the student has been dismissed by another College within Villanova University. If the student is accepted in another college immediately (normally within ten business days) after dismissal from the first college, or if the dismissed student is a science student who is accepted into the Arts division of the College of Liberal Arts and Sciences, s/he may continue to take courses and continue to live in the Residence Halls without interruption. The college into which the student is accepted must immediately notify the Registrar, the Bursar, and Residence Life that the student has now been accepted into another college.

Approved Council of Deans via Email July 13, 2016; technical edit, September 29, 2022

Academic Freedom

As a necessary condition for fulfilling their duties and functions as teacher-scholars, all faculty members (tenured, tenure-track, non-tenure-track full-time, or part-time adjunct) are entitled to full academic freedom in teaching, in research, and in disseminating the products of their scholarship. One's academic freedom is intrinsically linked to one's responsibilities as a scholar and member of the Villanova community, as detailed in this *Faculty Handbook*.

Because academic freedom is predicated on a degree of scholarly support for one's positions on issues, it does not extend to espousal of propositions that lack any scholarly support. Scholarly discourse on religious matters is protected.

In extramural academic settings such as professional lectures and conferences, when speaking as a member of a learned profession, faculty members enjoy this same freedom of research and dissemination of results as described above.

In the classroom, academic freedom is task-specific, deriving from and governing one's role as an instructor in a given discipline or disciplines. Faculty members are free to present and discuss their subject matter and related issues in accord with relevant academic standards and students' legitimate academic rights and responsibilities. Except when the University explicitly asks them to discuss specific issues of University concern, faculty "should be careful not to introduce into their teaching controversial matter which has no relation to their subject." Faculty members are responsible for upholding the integrity of reasoned inquiry, open discussion, and free expression. Especially when dealing with controversial topics, faculty members are expected to lead students in a scholarly evaluation of the subject matter.

Student performance should be evaluated solely on an academic basis, not on opinions or conduct unrelated to academic standards. Students should be free to take reasoned exception to the information or views offered in any course of study and to reserve judgment about matters of opinion, but students are responsible for learning the content of the course of study in which they are enrolled, including matters with which they disagree. The validity of their ideas, theories, arguments and views should be measured against the relevant academic standards.

Academic freedom *per se* does not extend to public statements that are unrelated to one's faculty status and academic expertise. Faculty members are free to exercise their constitutionally-protected freedom of expression, but in exercising that freedom, they will take care not to claim or suggest that the views so expressed are sanctioned by, or necessarily related to their faculty status at, Villanova. This is

especially important in view of the fact that the public may judge their profession and Villanova University by their utterances.

Academic Integrity

academic integrity, n.: the process of maintaining honesty about ideas and their sources, and avoiding behaviors such as cheating on tests, plagiarizing papers, falsifying data.

Academic integrity is a primary value for any institution of higher education. Cheating on tests, plagiarism, and other forms of academic dishonesty and misconduct are completely unacceptable, especially at Villanova which prides itself on its commitment to the Augustinian values of truth, unity, and love.

Please use this site to view:

- [The Code of Academic Integrity](#)
- [Academic Integrity Policy](#)
- [Detailed Procedures for Appeals](#)
- [FAQs](#)
- [Flow Chart Summarizing Process](#)

Faculty should submit a violation using the **Report a Violation of the Academic Integrity Code** in MyNOVA. The link to the form can be found at: [Report a Violation of the Academic Integrity Code | MyNova \(villanova.edu\)](#)

Villanova University is a member of the [Center for Academic Integrity](#). Please visit their website for more information on Academic Integrity in general.

The Office of Academic Affairs and Falvey Library collaborated to create the [Academic Integrity Gateway](#), a website with information about academic integrity and avoiding plagiarism. Faculty and students are encouraged to visit the Gateway, complete the interactive quiz, and use the web site as resource for writing papers.

Individuals with questions about academic integrity may contact:

Alice Dailey, PhD
Professor of English
Chair, Board of Academic Integrity
Villanova University
800 E. Lancaster Avenue

Academic Standing

Villanova uses three related policies to define Academic Standing: Grade Point Average; Academic Progress and Academic Probation. The correct interpretation of all three policies is that all students who are making sufficient progress toward their degree and who are eligible or have been allowed to register and take academic course work at Villanova for the current term are considered in good academic standing. Students placed on “Academic Probation” are considered to be in good academic standing since they are making satisfactory progress toward a degree and are still authorized to continue studying toward their degrees. Academic Probation only serves as an academic warning that a student is in danger of not meeting minimum academic retention standards and being terminated from the University.

Quality Point Averages

In addition to passing all courses taken the student is also required to maintain a specified grade average leading to graduation with a college degree. The average is derived from the grades and credit hours of the courses taken and is known as the quality-point average. It is determined by multiplying the number of credits for each course attempted by the allotted quality points for the grades received and dividing the total quality points by the total credit hours attempted. Quality points for grades are as follows:

A=4.00; A-=3.67; B+=3.33; B=3.00; B-=2.67;
C+=2.33; C=2.00; C-=1.67; D+=1.33; D=1.00; D-=.67.

Academic Progress

To qualify for a Bachelor’s degree, a student, in addition to completing all the studies prescribed for the degree sought, must earn a cumulative quality point average of at least 2.00. Most Full-Time students earn their Baccalaureate degree in four years. Full-Time students who do not complete the Baccalaureate degree within six years and part-time students who do not complete the Baccalaureate degree within twelve years may need to take additional courses in

order to meet degree requirements. Any student who has not completed the degree within twelve years must complete a degree through the College of Professional Studies. If the degree or major pursued by the full-time student is not offered by the College of Professional Studies, then the former full-time student must choose a degree and/or major offered to College of Professional Studies students. In circumstances involving those students who have entered Villanova University through the Academic Advancement Program, satisfactory progress of the student will be determined by the Academic Standing Committee and/or Dean of the college in which the student is matriculated.

Academic Probation

The records of students whose cumulative or semester quality-point average falls below 2.00 will be reviewed by the Academic Standing Committee of their college for appropriate action. Students in business, science or engineering whose technical course quality-point average falls below 2.00 will also come before the committee. Typically, the student will either be placed on academic probation or dismissed. While on academic probation, students are limited to a schedule of courses determined by the Academic Standing Committee of their College. A student on academic probation will normally be allowed only one semester to achieve the required quality-point average.

Honors

At graduation students receive honors of three kinds — summa cum laude, magna cum laude, and cum laude — after being approved for such honors by the faculty and administration of the University. To be eligible for these honors, students must attain a minimum cumulative quality-point average of 3.90, 3.75, 3.50, respectively, and at least sixty credits of course work (not including Satisfactory/Unsatisfactory courses) must have been taken at Villanova University.

Repeat Freshman Year

The Academic Standing Committee may allow a freshman student to declare academic bankruptcy and repeat the semester or the year with a new start on the cumulative average (though a record of the year’s work will remain on the transcript). Once a course is bankrupted the action is permanent and cannot be reversed.

Class Attendance

Class and laboratory attendance for first-year students is mandatory. A first-year student will receive a grade of "Y" (failure) whenever the number of unexcused absences in a course exceeds twice the number of weekly class meetings for the course.

For students beyond the first year, attendance policies are determined by the instructors of the various courses. The instructor's class attendance policy must appear in the syllabus and at a minimum must allow for the University's excused absences listed below and personal days (see below). Enforcement of such attendance policies lies with those instructors. If the instructor thinks a student has too many absences (total of excused and unexcused), then the instructor should discuss the student's attendance with the appropriate Assistant or Associate Dean of the instructor's college in order to determine if the student should withdraw or receive an incomplete.

Where possible, students should inform their instructors if they plan to be late or absent from class. In all cases, students should be prepared to provide documentation to petition for excused absences to the appropriate Assistant or Associate Dean of their college. Excused absences do not count toward a failure in the course for first year students. Absence from class does not release the student from work assigned. Students who miss an in-class obligation (exam, presentation, etc.) due to an excused absence will not be penalized - the instructor may offer a make-up test, arrange an alternative time for a presentation, exempt a student from the assignment, or provide another arrangement.

The University's list of excused absences for all students includes the following:

- participation in NCAA athletic competitions
- participation in special academic events (e.g., conferences, field trips, project competitions)
- participation in official university business (e.g., student representatives attending meetings related to university governance)

- attendance at significant events involving the immediate family (e.g., funerals, weddings)
- religious holidays - see the University's Policy on Religious Holidays
- college-approved participation in placement activities (e.g., job interviews, graduate school interviews, attending job fairs)
- legally required absence (jury duty, court appearance, short-term military service)
- documented serious illness or disability (see below how to document)

If instructors want to verify that the absence qualifies as an excused absence under the university list or verify that the student is permitted to participate in the activity, they should contact the designated Assistant or Associate Dean of the student's College.

The College of Professional Studies has separate attendance policies for FastForward courses and professional education courses/programs. The College of Nursing has a separate attendance policy for clinical experiences. Graduate Studies in the College of Liberal Arts and Sciences has separate attendance policies for online degree programs.

Documenting a Serious Illness or Disability

The Student Health Center does not provide notes to excuse absences for students missing class due to their visit to the Student Health Center, or to excuse class absences due to most common illnesses. The Student Health Center will also not provide notes to excuse absences for medical conditions that were not treated at the Student Health Center. The purpose of this policy is to eliminate unnecessary visits from students whose sole purpose is obtaining class absence notes for their professors.

Some illnesses may legitimately prevent a student from attending classes but are not serious enough to require evaluation and treatment from the Student Health Center. Students often provide self-care, which is very appropriate for many common illnesses such as cold, viral infection, or uncomplicated flu. Students should inform their instructors if they are missing class for a common illness. Instructors have the discretion to decide if the absence due to a common illness is excused. If a student wishes to appeal the instructor's decision, the student may do so by contacting

the instructor's Department Chair or Program Director, who will consult with the appropriate Assistant or Associate Dean of the instructor's college, before deciding the outcome of the appeal.

If in the judgment of the Student Health Center staff, the student will be out of class due to a serious illness or medical condition, as opposed to a common illness, the Student Health Center staff will contact the appropriate Assistant or Associate Dean, who will then contact the instructor. The Student Health Center communication to the Assistant or Associate Dean will serve as the documentation needed by the Dean (see below). If the student is seeing an off-campus health care provider, the student will provide the documentation from that provider to the appropriate Assistant or Associate Dean, who will then contact the faculty member.

Examples of serious illnesses may include (but are not limited to):

- Mononucleosis, which may require bed rest and/or removal from campus
- Hospitalization and/or surgery
- Highly contagious diseases (e.g., chicken pox, measles)

Mental Health Concerns. The University Counseling Center will use clinical judgment as to whether there is a legitimate need for the student to miss class for reasons related to mental health. If in the judgment of the University Counseling Center staff, the student should be out of class due to a mental health condition, the Counseling Center staff will request a written release of information from the student. With a signed release, the Counseling Center staff may then contact the faculty member or the appropriate Assistant or Associate Dean, who may contact faculty accordingly. The University Counseling Center will not typically validate the legitimacy of a student having missed classes for mental health reasons retroactively before the student has been to the Counseling Center. The fact that a student is in treatment at the Counseling Center or with an off campus mental health provider will not, in itself, justify the student missing classes. The recommendation for missing classes will occur only when the mental condition necessitates it. If the student is seeing an off-campus mental health care provider, the student will provide the

documentation from that provider to the appropriate Assistant or Associate Dean, who will then contact the faculty member.

If the duration of the absence due to serious medical illness or mental health concern undermines the student's ability to complete the academic work required, the appropriate Assistant or Associate Dean will encourage the student to pursue a Medical Leave of Absence – see policy on *Medical Leaves of Absence*.

Documenting Disabilities. Students who are registered with Learning Support Services (LSS) or the Office of Disability Services (ODS) must provide accommodation letters from those offices to their instructors (in advance of absences) in order for subsequent disability-related absences to be considered excused. Students who are newly struggling should be encouraged to register with the appropriate office for any future concerns. Accommodations are not typically retroactive.

Students with learning disabilities, other neurologically-based disorders, and those disabled by chronic illnesses are encouraged to contact **Learning Support Services** (LSS). Students with physical disabilities, including but not limited to visual impairments, hearing loss, and mobility limitations, are encouraged to contact the Office of Disability Services (ODS). Depending on the type of disability, there are different processes for disclosing and documenting the disability with the University.

- For students with learning disabilities, neurologically-based disorders, and disability due to chronic illness, these guidelines, as well as certification forms for certain specific disabilities, please refer to the **University Policy for Students with Disabilities**.
- Students with physical disabilities can refer to these guidelines.

Personal Days

In addition to the attendance policy stated above, students are entitled to a predetermined number of excused absences to support their personal wellness. Students are entitled to two "Personal Days" for 50-minute classes meeting three times per week, and one "Personal Day" for classes meeting two times per week for 75 minutes.

Students must advise the instructor by email before class of their intent to utilize a Personal Day as the reason for their absence. A Personal Day will not be approved retroactively. Students may, but are not required, to provide additional information regarding their absence. Additionally, Personal Days may not:

- be used on consecutive class days;
- be used in the same week;
- be used immediately preceding or following a University holiday or break period;
- be used on days when exams, presentations or other major assignments are scheduled.

A Personal Day does not grant an automatic extension for items due. Students remain responsible for all assignments, exams, presentations, etc. due on that date. It is in the instructor's discretion to determine whether any extension is appropriate given individual circumstances.

Personal Days may not be used for the following: Labs, Clinicals, Internships, Courses that meet one time per week, Fast Forward courses and professional education courses/programs offered by the College of Professional Studies, Summer Sessions, or graduate/law courses. The suggested syllabus language regarding Personal Days is included at the conclusion of this policy.

Provost September 17, 2016; Technical correction March 1, 2017; February 28, 2019; Approved by Board of Assistant and Associate Deans February 4, 2019; Updated with Personal Days September 27, 2023, upon the recommendation of the Academic Policy Committee with the approval of the Council of Deans, the Provost, and President.

1. Proposed language for syllabus - 50-minute classes meeting three times per week:

In addition to the attendance policy stated above, students are entitled to two excused absences for any reason that may contribute to their personal wellness. Students must advise the instructor by email before class of their intent to utilize a Personal Day as the reason for their absence. A Personal Day will not be approved retroactively. Students may, but are not required, to provide additional information regarding their absence. Additionally, Personal Days may not:

- be used on consecutive class days;
- be used in the same week;
- be used immediately preceding or following a University holiday or break period;
- be used on days when exams, presentations or other major assignments are scheduled.

A Personal Day does not grant an automatic extension for items due. Students remain responsible for all assignments, exams, presentations, etc. due on that date. It is in the instructor's discretion to determine whether any extension is appropriate given individual circumstances.

2. Proposed language for syllabus - 75-minute classes meeting two times per week

In addition to the attendance policy stated above, students are entitled to one excused absence for any reason that may contribute to their personal wellness. Students must advise the instructor by email before class of their intent to utilize a Personal Day as the reason for their absence. A Personal Day will not be approved retroactively. Students may, but are not required, to provide additional information regarding their absence. Additionally, a Personal Day may not:

- be used immediately preceding or following a University holiday or break period;
- be used on days when exams, presentations or other major assignments are scheduled.

A Personal Day does not grant an automatic extension for items due. Students remain responsible for all assignments, exams, presentations, etc. due on that date. It is in the instructor's discretion to determine whether any extension is appropriate given individual circumstances.

3. Personal Days may not be used for the following: Labs, Clinicals, Internships, Courses that meet one time per week, Fast Forward courses and professional education courses/programs offered by the College of Professional Studies, Summer Sessions, or graduate/law courses. The suggested syllabus language regarding Personal Days is included at the conclusion of this policy.

Course and Class Regulations

1. All courses are to be taught in accordance with guidelines established by the department and/or the dean of the college, as college policy may determine.
2. All class periods are to begin and close at the appointed time to permit students to be prompt in attendance.
3. If it is necessary for a faculty member to miss a class (for emergencies, religious holiday, illness, and University-related obligations such as professional conferences, external lectures, etc.), s/he must as soon as possible inform the department chair and, if possible, make other arrangements for the class. Faculty members should, if possible, notify the students of canceled classes by e-mail or voice mail, and they should make every effort to limit missed classes to a reasonable number.
4. If a faculty member is more than ten minutes late for class without a notice, the students may rightfully assume that the faculty member will be absent; students who leave may not be marked absent for that class, should it be conducted.
5. No student is to be admitted to any class who is not on the official class list. Faculty members need to be attentive to the class lists and report discrepancies to their chairs and/or the Registrar.
6. The instructor is required, however, to take record and report attendance for all classes as directed by the Registrar. (See Policy on [Class Attendance](#).)

6/1/10

Credit Hour Policy and Scheduling Guidelines

1. Policy

Except as otherwise described in the “Specific Guidelines” below, all credit courses offered by the College of Engineering, College of Liberal Arts and Sciences, College of Nursing, College of Professional Studies, and School Of Business are normally expected to meet for 50 minutes per credit hour per week during a fifteen-week semester; courses scheduled in shorter sessions

(e.g. Summer Sessions; Fast Forward; Graduate Business; Online programs, etc.) must meet for an equal amount of time over the shorter period.

The Villanova School of Law has its own credit hour policy; however, courses offered by College of Engineering, College of Liberal Arts and Sciences, College of Nursing, College of Professional Studies, and School of Business as part of programs offered in partnership with the Villanova School of Law will comply with the University’s Credit Hour Policy. Consistent with the policies of the federal government and the Middle States Commission on Higher Education, credit courses are normally expected to include approximately 100 minutes of out-of-class student work (or the reasonable equivalent) per credit hour per week during a fifteen-week semester; with reasonably equivalent amounts of out-of-class work for shorter sessions.

Exceptions to the credit hour requirements in this Policy will be allowed for academic activities that require reasonably equivalent work and are important to learning and teaching goals. Such exceptions to the credit hour requirements in this Policy must be approved by the Dean of the college or school and the Provost. Class schedules must be approved and developed in accordance with the following specific guidelines.

2. Specific Guidelines

- A minimum of 100 minutes of science lab or clinical practice per week in a fifteen-week semester generally counts for one credit.
- Three-credit graduate courses and Senior Seminars normally will be expected to meet a minimum of 120 minutes per week rather than 150, because of the higher expectations for work outside of class time
- Courses offered entirely online and courses with online components may use viewing video lectures and participation in blogging, discussion boards, etc. that are relevant to the learning and teaching goals of the course to count as part of class time.
- Course meetings that are conducted as non-science labs, oral presentations, studio sessions, rehearsals or other course-based activities will generally be granted one credit for a minimum of 50 minutes of meeting time per week (or the cumulative equivalent over a semester) as long as they are central to the course’s learning and teaching goals in the syllabus.

- Exceptions to the class time requirements in this Policy will be allowed only when (i) the course requires academic activity outside class meetings sufficiently in excess of the normal expectation (100 minutes per credit hour per week) to compensate for the reduced time in class; and (ii) the rationale for the exception is manifest in the course syllabus and clearly shown to be materially relevant to the course's learning goals. Such courses will typically be either research-intensive (where students are undertaking an independent course of research over and above assigned reading) or have an experiential, clinical or service-learning component or be an approved independent study; in any case, such courses will depend on close monitoring by the instructor of the nature, quality, and quantity of the work done outside scheduled classroom hours.
- A syllabus for each course should contain a clear description of class meeting times and any approved or required non-classroom activities.

3. Time and Day Patterns

Standard Daytime Sequences

1	MWF 0830-0920 OR MW 0800-0915
2	MWF 0935-1025
3	MWF 1040-1130
4	MWF 1145-1235
5	MWF 1250-1340
6	MWF 1355-1445 OR MW 1355-1510
7	MW 1520-1635
8	MW 1645-1800
9	TR 0830-0945
10	TR 1000-1115
11	TR 1130-1245
12	TR 1300-1415
13	TR 1430-1545
14	TR 1600-1715

Standard Evening Sequences

UG 1 day/week
M/T/W/R 1815 - 2055

UG 2 day/week
MW or TR 1815 - 1930
MW or TR 1945 - 2100

Graduate 1 day/week
M/T/W/R 1720 - 1920
M/T/W/R 1930 - 2130
M/T/W/R 1815 - 2115
M/T/W/R 1815 - 2045

M/T/W/R 1815 - 2115

4. Departmental/Program Guidelines

Departmental Guidelines for Course Scheduling

- Departments must adhere to the standard time sequences. This ensures compliance with class time meeting requirements (50 minutes per credit per week).
- Departments should balance daytime course offerings evenly across the 14 standard time sequences. For example, a department should divide the total number of daytime courses they are offering by 14, the number of standard time sequences. Included in the total number of courses should be any graduate level courses offered during daytime sequences. To arrive at the maximum number of courses permitted in any one time sequence, round down to the nearest whole number. Once the department has filled all of the sequences with this number they would be allowed to add additional courses evenly across the sequences, as needed.

5. Implementation

- Each college or school is responsible for reviewing and monitoring existing courses and proposed new courses (including any online or hybrid courses offered by such college or school) to confirm compliance with the requirements of this Policy.
- Prior to submitting any course for which an exception is required to the University Registrar, the college or school will submit a written description of the course and a summary of the reasons for the requested suggestion to the Dean of such college or school for approval, and, if approved, to the Provost for approval. Approved exceptions will be submitted to the University Registrar with a copy of the approvals and the written course description and summary of reasons for the exception.
- In consultation with the Dean of the college or school, the Provost will approve exceptions to the credit hour requirements of this Policy.
- The University Registrar is responsible for monitoring the implementation of this Policy and these guidelines through the regular course scheduling process.

Recommended by the

- Credit Hour Task Force on April 13, 2015
- Academic Policy Committee on April 23, 2015
- Council of Deans on April 23, 2015

Approved by the VPAA on April 27, 2015

Technical Updates Approved by Provost and Council of Deans on September 28, 2023

6. References

Middle States Commission on Higher Education. October 30, 2012. *Credit Hour Policy*. See:

<https://msche.my.salesforce.com/sfc/p/#46000000ZDJj/a/46000000XprZ/9QoYhBwk.X.JTjSqSgv4dqTw83Rvhz7rJbVZB5IEUIQ>

Georgetown University. January 28, 2011. *Scheduling Policies and Guidelines*.

Title 22, Education, of the Pennsylvania Code, 22 Pa. Code §§ 31.21-31.22

Disclosure of Student Records

Villanova University, in accordance with the Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, has adopted this Student Records Policy to address the following issues with respect to education records: (1) disclosure of directory information; (2) confidentiality of personally identifiable information; and (3) student rights to inspect, review and seek amendment of their records. In general, education records are defined as records maintained in any form by the University that are directly related to a student.

I. Disclosure of Directory Information

Information concerning the following items about individual students is designated by the University as directory information and may be released or published without the student's consent: full name; student identification number; address (local, home or electronic mail); telephone number; photograph or video; date and place of birth; major field of study; grade level; enrollment status (e.g., undergraduate or

graduate, full- time or part-time); dates of attendance; degrees, honors and awards received (including Dean's List); most recent previous educational institution attended; participation in officially recognized University activities and athletics; and weight and height of members of athletic teams. Students who do not wish directory information to be released or made public must inform in writing the Office of the Registrar.

II. Confidentiality of Personally Identifiable Information

All personally identifiable information contained in student records other than directory information is considered confidential information. This information includes, but is not necessarily limited to: academic evaluations; general counseling and advising records; disciplinary records; financial aid records; letters of recommendation; medical or health records; clinical counseling and psychiatric records; transcripts, test scores, and other academic records; and cooperative work records. "Personally identifiable information" means that the information includes: (a) the name of the student; (b) the address of the student; (c) a personal identifier such as social security number; or (d) a list of personal characteristics or other information that would make the student's identity easily traceable.

The University will generally not disclose personally identifiable information to third parties without the written consent of the student. The signed and dated consent should specify the records to be disclosed, the purpose of the disclosure, and to whom the records are to be disclosed. However, personally identifiable information may be disclosed, without the student's consent, to the following individuals or institutions, in accordance with FERPA, including in the following circumstances:

- To University officials (or office personnel ancillary to the officials) who require access for legitimate educational purposes such as academic, disciplinary, health or safety matters. University officials may include, without limitation, the Board of Trustees, the President, Vice Presidents, Deans, Directors, Department Chairs, Faculty Members, ROTC Commanding Officers, attorneys in the Office of the Vice President and General Counsel, Judicial Officers, Counselors,

Resident Advisers, Coaches and Admissions Officers. University officials also include contractors, consultants, volunteers and other outside parties, such as an attorney or auditor providing services on behalf of the University for which the University would otherwise use employees.

- To the party(ies) who provided or created the record(s) containing the personally identifiable information.
- To officials of other educational institutions to which the student seeks or intends to enroll or where the student is already enrolled, for purposes related to the student's enrollment or transfer (on condition that the student upon request is entitled to a copy of such records).
- To appropriate federal, state or local officials or authorities, consistent with federal regulations.
- To the U.S. Attorney General (or designee) pursuant to an ex parte order under the U.S. Patriot Act in connection with certain investigations or prosecutions.
- To organizations conducting studies for, or on behalf of, educational agencies or institutions.
- To accrediting organizations to carry out their accrediting functions.
- To parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1986.
- To parents of a student under the age of 21, where the information pertains to violations of any federal, state or local law or of any University rule or policy governing the use or possession of alcohol or a controlled substance, and the student has committed a disciplinary violation.
- In connection with the student's application for, or receipt of financial aid.
- To comply with a judicial order or lawfully issued subpoena (on condition that a reasonable effort is made to notify the student of the order or subpoena, if legally permitted to do so).
- In case of an emergency, to appropriate parties, including parents, to protect the health or safety of the student or other individuals, where the University determines that there is an articulable and significant threat to the student or other individuals.

- The disclosure of information concerning registered sex offenders provided under state sex offender registration and campus community notification programs.
- The outcome of a disciplinary proceeding to a victim of or alleged perpetrator of a crime of violence or non-forcible sex offense.
- The outcome of a disciplinary proceeding where a student is an alleged perpetrator of a crime of violence or non-forcible sex offense and is determined to have violated the University's rules or policies.

If required under FERPA, the University will inform a party to whom a disclosure of personally identifiable information is made that it is made only on the condition that such party will not disclose the information to any other party without the prior written consent of the student.

III. Non-Education Records

The following are not considered education records, and thus are not protected by FERPA and this policy:

- Employment records of students as University employees.
- Campus law enforcement records created and maintained by the Public Safety Office, in accordance with the requirements of FERPA.
- Records that are made or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional capacity or assisting in his or her paraprofessional capacity, and that are made, maintained, or used only in connection with treatment of the student and are disclosed only to individuals providing the treatment. These records may be reviewed, however, by a physician or other appropriate professional of the student's choice.
- Records of instructional, supervisory, and administrative personnel and educational personnel ancillary to those persons, that are in the sole possession of the maker of the record and are not accessible or revealed to any other individual except a temporary substitute for the maker.
- Records that only contain information about a person after that person was no longer a student at the University and that are not directly related to the individual's

attendance as a student (e.g., information collected by the University pertaining to accomplishments of its alumni).

- Grades on peer graded papers before they are collected and recorded by a faculty member.

IV. Inspection and Review Rights; Right to a Hearing

A currently or previously enrolled student has the right to inspect and review his or her educational records. This right does not extend to applicants, those denied admission, or those admitted who do not enroll. Offices may require that requests for access be submitted in writing, and may ask for, but not require, the reason for the request. The University will comply with requests to inspect and review a student's records that it has determined to honor within a reasonable period of time, but in no case more than forty-five days after the request was made.

Records to which students are not entitled to access include:

- Confidential letters and statements of recommendation placed in a student's record before January 1, 1975, or confidential letters and statements of recommendation to which students have waived their rights of access.*
- Financial records of the parents of the student or any information contained in those records.
- Those portions of a student's records that contain information on other students.
- Those records listed in Section III above.

A student who believes that any information contained in his or her educational records is inaccurate or misleading, or otherwise in violation of his or her privacy rights, may request that the University amend the records. The student should first discuss his or her concerns with the individual responsible for the office where the records are maintained. If the student is not satisfied with the resolution, the student should contact the individual to whom that person reports. If still not satisfied, the student may contact the appropriate vice president or designee. The final level of appeal is a formal hearing. To obtain a hearing, the student should file a written request with the Vice President for Student Life. The hearing will be conducted in accordance with the requirements of FERPA.

The substantive judgment of a faculty member about a student's work (grades or other evaluations of work assigned) is not within the scope of a FERPA hearing. A student may challenge the factual and objective elements of the content of student records, but not the qualitative and subjective elements of grading.

If as a result of a hearing the University determines that a student's challenge is without merit, the student will have the right, and will be so informed, to place in his or her records a statement setting forth any reasons for disagreeing with the University's decision.

Students have a right to file complaints concerning alleged failures by the University to comply with the requirements of FERPA and the implementing regulations.

*Students may be invited but not required to waive their right of access to confidential letters of recommendation for admission, honors or awards, or employment. Failure to execute a waiver will not affect a student's admission, receipt of financial aid, or other University services. If a student signs a waiver, he/she may request a list of all persons making confidential recommendations.

Complaints should be addressed to the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, S.W., Washington DC 20202-5901. Students are encouraged to bring any complaints regarding the implementation of this policy to the attention of the Vice President and General Counsel.

Final Examinations and Final Week of Classes

Faculty members recognize their obligation to provide timely interim and final assessments of student performance in their classes. This may be done in a variety of ways, to be determined by each instructor. The assessment methodology should be spelled out clearly in the syllabus, with an explanation of the relative weight each item will contribute to the final grade.

The Registrar schedules a time for a final examination for each course. These times are available on the Registrar's website early in the semester, so students should have adequate time

to make travel plans. It is permissible to omit the final examination, provided that other equivalently comprehensive assessment techniques are employed. If final examinations are given, they must be given at the time and place scheduled by the Registrar unless exemption has been authorized by the chair and dean.

In order to balance student workload during the final week of classes, the following describes prohibited times for administering examinations or other assessment instruments in undergraduate courses only.

Reading days: No exams or assessment instruments whatsoever may be administered, and no papers or other assignments may be due, on designated reading days.

Final day of class: With the exception of oral presentations or laboratory assessments, no exams or other student performance assessment instruments whatsoever may be administered, and no papers or other assignments may be due, on the final day of class. Faculty may administer the Course and Teacher Survey.

Other days of the final week of classes: No final examinations may be administered, and no take-home exams may be due, during the final week of classes. Other major examinations and tests may be administered only with the explicit written consent of the dean of the college (quizzes and minor assignments are permitted). No paper or other assignment may be due on other days of the final week of classes unless clearly scheduled for that week in the course syllabus that is distributed at the outset of the course.

The below section refers to both graduate and undergraduate courses:

*Tests or student learning assessment mechanisms are to be employed periodically. In the interest of fairness, faculty members should take steps to avoid situations where some students have access to previous examinations while others do not. This can be done in several ways: faculty members may collect examination papers from students so that these cannot be circulated in later semesters, or faculty members may make previous examinations available to students either electronically or by other means.

Copies of semester examinations are to be filed with the chair of the department and/or the dean of the college.

*Occasionally students will encounter conflicts in the examination schedule such that two of a student's examinations are scheduled at the same time or three examinations are scheduled on the same day. In the event of such a conflict, the student must notify the instructor at least seven days in advance of the scheduled exam. The instructor will make alternative arrangements for the student to complete the examination. In resolving conflicts, multiple section exams should take precedence over exams for a single section, and courses in the major should take precedence over non-major courses. Extraordinary difficulties encountered in effecting such an arrangement will be resolved by the dean of the student's college.

*If a student is absent from a final examination for any reason other than a conflict, he or she must contact the instructor within 24 hours of the scheduled beginning of the examination to request permission from the instructor to take a make-up examination. The instructor may, if he or she wishes, arrange a make-up examination at a mutually convenient time. If the faculty member has reservations about the legitimacy of the student's reasons for missing the examination, the faculty member may refer the student to the office of the college dean, who will evaluate the student's request for a make-up. If the office of the dean approves the request, the faculty member will arrange a make-up examination for the student or assign other work in place of the final examination. If the student does not contact the faculty member within 24 hours, the student must receive permission from both the office of the dean and the faculty member before being allowed to take a make-up examination.

*Faculty members should attend the administration of the final examination in order to answer any questions and ensure high standards of academic integrity. When they are unable to do so, department chairs are to see that sufficient proctors are provided for each examination room. Where there is a shortage in any department, assistance should be requested from other departments.

*Faculty members must retain in their possession all final exams and other unclaimed exams, papers, and student course projects and

materials for a period of twelve months following the end of the semester in which they were used to establish grades.

Grades & Assessments

Faculty members must provide a series of graded assignments or assessments throughout the semester. In undergraduate classes, faculty members normally must assign enough graded work so that they can give a meaningful mid-term grade. If faculty members do not feel that a mid-term grade is appropriate for their course, they should consult with their department chair, providing a brief explanation of their decision. All courses that contain a significant number of freshmen must include a meaningful midterm grade. Faculty members are expected to give students timely feedback on all graded assignments, so that students can know how they performed and how they may improve in the future. All mid-term and final grades are to be posted on the University's [NOVASIS](#) system within the time limits specified by the Registrar. Please refer to sections on **FINAL EXAMINATIONS** and **SYLLABI** in this *Faculty Handbook*.

Grading System

The grade report at the end of the semester is part of the student's permanent record. Any inaccuracy on this record must be reported to the Registrar according to the following deadlines; otherwise, the record will stand as it is.

- **Spring Semester grade errors:** Last Friday in June
- **Summer Semester grade errors:** Last Friday in August
- **Fall Semester grade errors:** Last Friday in January

Faculty members are responsible for maintaining the integrity of the evaluation and grading system. Presented below in the Undergraduate Grading System; the Graduate Grading System may be found in each college's Graduate Catalog:

- A** is the highest academic grade possible; an honor grade which is not automatically given to a student who ranks highest in the course, but is reserved for accomplishment that is truly distinctive and demonstrably outstanding. It represents a superior mastery of course material and is a grade that demands a very high degree of understanding as well as originality or creativity as appropriate to the nature of the course. The grade indicates that the student
- A-**
- B+**

works independently with unusual effectiveness and often takes the initiative in seeking new knowledge outside the formal confines of the course.

- is a grade that denotes achievement considerably above acceptable standards. Good mastery of course material is evident and student performance demonstrates a high degree of originality, creativity, or both. The grade indicates that the student works well independently and often demonstrates initiative. Analysis, synthesis, and critical expression, oral or written, are considerably above average. indicates a satisfactory degree of attainment and is the acceptable standard for graduation from college. It is the grade that may be expected of a student of average ability who gives to the work a reasonable amount of time and effort. This grade implies familiarity with the content of the course and acceptable mastery of course material; it implies that the student displays some evidence of originality and/or creativity, works independently at an acceptable level and completes all requirements in the course.
- C** denotes a limited understanding of the subject matter, meeting only the minimum requirement for passing the course. It signifies work which in quality and/or quantity falls below the average acceptable standard for passing the course. Performance is deficient in analysis, synthesis, and critical expression; there is little evidence of originality, creativity, or both.
- C-** indicates inadequate or unsatisfactory attainment, serious deficiency in understanding of course material, and/or failure to complete requirements of the course.
- D** Incomplete: course work not completed.
- D-** Satisfactory: Assigned in Satisfactory/Unsatisfactory courses (work must be equivalent to C or better).
- F** Satisfactory Progress.
- S** Transfer grade.
- SP** Approved withdrawal without penalty.
- T** Approved withdrawal with penalty.
- WX** Unsatisfactory: Assigned in Satisfactory/Unsatisfactory courses.
- W** Audit.
- U** Unofficial withdrawal from course (or for freshmen, failure for excessive absences).
- AU** (Or Blank); no grade reported.
- Y**
- NG**

Policies

All grades are permanent, except **N** and **NG**, which are temporary grades used to indicate that the student's work in a course has not been completed. An **N** or **NG** grade must be removed and a grade substituted by the instructor according to the following schedule:

- *For the Fall Semester:* Students must submit all work to the instructor by the last Friday in January; grade changes must be submitted to the Registrar's Office by the second Friday in February.
- *For the Spring Semester:* Students must submit all work to the instructor by the last Friday in June; grade changes must be submitted to the Registrar's Office by the second Friday in July.

- Students should check the academic calendar for actual dates. If a change is not reported, the **N** or **NG** grade automatically becomes an **NF**.
- Without the approval of the instructor, the department chair, and the dean, no grade higher than **C** may replace the **N**.

The grade **WX** indicates an authorized withdrawal with the grade not considered in the calculation of the quality-point average. The grade **W** also indicates an authorized withdrawal, but the grade is calculated as an **F** in determining the quality-point average. Authorization for **WX** and **W** may be given only by the student's dean. The grade **Y** is given when a student unofficially withdraws from a course. It is reflected in the average as an **F**.

Required courses carrying a final grade of **F** must be repeated unless the student transfers to another college of the University where the course for which an **F** grade was received is not a requirement for the degree. The reasons for student deficiencies are reported by the faculty member at mid-semester and at the end of the semester to the dean of the student's college.

When a student who has failed in a course presents evidence of subsequently passing a like course in another institution, the University reserves the right to withhold credit for the course until the student shall have passed a qualifying examination given by the Faculty from which a degree is sought.

Students should recognize that failure in one course or more will usually make it impossible for them to graduate with the class in which they matriculated.

5/1/11

Graduation Policy for Undergraduates

1. PURPOSE

This policy is enacted to document the process of awarding degrees upon completion of all requirements.

2. SCOPE

This policy applies to all Villanova University undergraduate students.

3. DEFINITIONS

A **Degree Program** is defined as an approved academic program of study, outlined in the Villanova University Undergraduate Catalog, that contains a degree and, in the case of an undergraduate, at least one major, and leads to an official diploma and notation of such on the university's official transcript.

A **2nd Degree** is an officially declared program of undergraduate study in addition to the primary degree program. The second degree will be awarded only if a student has completed 43 or more additional credits beyond the greater of the two program requirements and all other degree requirements as specified by the college.

A **major** is an area of specialized study that dictates the structure and requirements of the degree. Students may pursue 2 or more majors; however, the degree is awarded upon successful completion of one major as well as the successful completion of other minimum degree requirements as outlined in the undergraduate catalog.

A **Certificate** is an academic award that can be obtained at the undergraduate level. Certificates are focused, structured, and interrelated sets of courses that enhance a student's experience in an academic area, address a professional development need, or provide preparation for specific degree programs. Certificates can be earned independently or in conjunction with a degree program.

The college offering the degree or certificate program bears the responsibility for authenticating completed program requirements. Changes or exceptions in course requirements for individual students must be documented in the academic record of the student.

4. POLICY STATEMENT

Students are required to graduate at the end of the term in which all degree requirements are completed. Undergraduate students must meet the graduation requirements which are stated in the University Undergraduate Catalog associated with their entry year.

The deans shall send to the Registrar a list of all students in their college or school who have satisfactorily completed all their degree requirements by the official date of graduation. The Registrar shall issue diplomas only to those students whose names appear on the list. The current graduation dates are May 31st, September 1st, and December 31st. The graduation date appears on a student's diploma and transcript.

Incomplete minor, concentration, or additional majors do not prevent degree awarding. If a student wishes to continue to pursue an additional major, minor, or concentration post-graduation, a statement of intent must be submitted to the student's college prior to the official census date in the semester in which the student will meet all requirements to graduate. The college should notify the Registrar's Office of students that are continuing post-graduation to complete secondary major/minor/concentration requirements. A major, minor, or concentration completed after the degree is awarded will be added to the transcript with a notation indicating when it was completed. The GPA will not be recalculated for honors purposes. These additional programs must be completed within one academic year after degree completion.

After a student has graduated, undeclared additional majors/minors/concentrations will not be added to a student's record retroactively unless documented university error is discovered.

5. PROCEDURE

The Registrar's Office requires students to complete a Prospective Graduate Form; however, because students are required to graduate at the end of the term in which all degree requirements are complete, the university reserves the right to graduate a student without a graduation application on file.

Exceptions or waivers for specific courses required for degree completion may occur as determined by the college. These exceptions must be documented in the student's file. Students have advisors available who assist in planning and implementing their plan of studies; however, it is ultimately each student's responsibility to know and fulfill the requirements for graduation specified in the approved University Catalog for their academic program.

Students who intend to pursue a second undergraduate degree must inform their advisor and meet with the appropriate assistant or associate dean of their college. If approved, a degree plan must be provided by the college to the Office of the Registrar. This plan will be used to verify that at least 43 additional credits were taken by the student to complete the second undergraduate degree.

Colleges verify degrees/certificates and must submit a list of those graduating to the Office of the Registrar by the deadline set by the Office of the Registrar each semester.

The Office of the Registrar posts the degrees/certificates of students who appear on the graduation list within two weeks of receipt of the list. Students are notified by email when degrees are posted.

The Office of the Registrar orders diplomas for these students after the graduation list is submitted. Diplomas are only issued for awarded degrees. Certificates are issued by the college in which the program is offered.

Diplomas are mailed 4-6 weeks after the awarding process. Students are notified by email when diplomas have been shipped. Certified Electronic Diplomas (CeDiplomas) become available as soon as diplomas have shipped. CeDiplomas are only available for conferral dates beginning May 2020.

Guidance for Academic Advisors

Advisors may consider different options for students as described below.

- Advise students at the beginning of their final semester that if they wish to complete an additional major or a minor or concentration after they graduate, then they must declare that major or minor or concentration prior to the census date of their final semester. Their graduation semester will still be the term in which they completed their primary degree requirements. The college should notify the Registrar's Office of students that are continuing post-graduation to complete an additional major or a minor or a concentration. A major or minor or concentration completed after the degree is awarded will be added to the transcript with

a notation indicating when it was completed. The GPA will not be recalculated for honors purposes. These additional programs must be completed within one academic year after degree completion. If students are undecided at the census date in their final semester – for whatever reasons – they should still plan to return. Please direct students to the Bursar’s tuition and fees webpage for the undergraduate rates if the student will be enrolled in less than nine credits. Students receiving financial assistance should speak with the Office of Financial Assistance regarding future aid eligibility. If they decide towards the end of their final semester to not return for an additional semester to complete the additional major or minor or concentration, then the college will need to notify the Registrar that the student is no longer pursuing the additional major or minor or concentration, so to have an accurate student record on file.

- Advise students to graduate on-time, and rather than complete additional majors or minors or concentrations, apply to a graduate program. If accepted, they enroll in that graduate program. If they decide to not complete the graduate program, they may have enough courses to receive a graduate certificate or may need to take only one or two courses to complete such a certificate. This may be a credential more meaningful than another undergraduate major or minor or concentration. Graduate students are considered full time for loan deferment purposes if taking six credits in a full term. Students receiving veteran’s benefits must check with the School Certifying Official for rules regarding enrollment status and benefits.
- Advise students to graduate on-time, and if they do not qualify for admission to a graduate program, or do not want to enroll in graduate programs, they may pursue a second undergraduate degree, including the Bachelor of Interdisciplinary Studies offered by the College of Professional Studies. Another option is to enroll in one of the College of Professional Studies’ credit-bearing Certificates. These certificates range from twelve to thirty credits. Finally, students may enroll in Post-Baccalaureate Individual Courses in the College of

Professional Studies. Tuition is set at the College of Professional Studies rate listed on the Bursar’s website.

- Advise students who do not want to graduate early, to develop an “academic plan” with their advisor that has them complete degree requirements after four years or eight semesters of study. The academic plan will allow the student to complete degree requirements in the final semester when they also are completing their secondary major or minor or concentration. There are many reasons that students can graduate in less than four years including AP credits, summer school enrollment, and overloads.

6. RELATED INFORMATION/FORMS

[Prospective Graduate Form](#)

[Change of Major Form](#)

7. HISTORY

Academic Policy Committee Reviewed May 1, 2022

Council of Deans Approved August 24, 2023

Provost Approved August 24, 2023

President Approved November 8, 2023

Technical Revision Approved by Provost and Council of Deans May 22, 2024

Effective Date June 1, 2024

8. RESPONSIBLE UNIVERSITY DIVISION/DEPARTMENT

Office of the Provost

Enrollment Management

9. RESPONSIBLE ADMINISTRATIVE OVERSIGHT

The Office of the Registrar

Incomplete or In-Progress Grades and Graduation

1. In the case where a student has an incomplete (N) or in progress (IP) grade for a course that is not required for degree completion in the graduation term the college who is conferring the degree must validate that the degree requirements are met without the completion of that course. Proof of completion of degree requirements should be sent to the Office of the Registrar. In addition to the completion of the courses required for graduation, the college must confirm that the student's overall GPA is at minimum a 2.0 (3.0 for graduate programs) using the grade of "F" in the incomplete/in progress non-required course in the GPA calculation. This GPA must be confirmed because all courses count towards a student's GPA which must be a minimum of 2.0 (3.0 for graduate programs) to graduate. In addition, undergraduate students in the VSB, Engineering, Nursing and the Sciences must attain a 2.0 technical GPA in order to graduate.
2. In the case where a student completes requirements for one degree/major, but has incomplete or in progress grades in the graduation term that impact the completion of another major, minor, or concentration, that major, minor or concentration will be added to the degree record only when the work has been completed and the college notifies the Office of the Registrar that the new requirements have been met. If the requirements have been met by the diploma date (May 31, September 1, or December 31), the additional major/minor/concentration will be posted to the same graduation term record. If the course work is completed after the dates noted above, the additional major/minor/concentration will be added to the student's record with a notation that those requirements were completed in the appropriate subsequent term.
3. The Office of the Registrar reserves the right to withhold the computation of graduation honors (summa cum laude, magna cum laude, cum laude) for any undergraduate student with incomplete or in progress grades — regardless of whether or not the

course is needed for graduation — since the *overall* final GPA for all coursework is what determines honors designation. If the grade in the course affects honors, the Office of the Registrar may not post honors to the student record until the incomplete or in progress grade is converted to a final grade. Since graduate students do not receive honors at graduation this policy is not applicable to them.

Language Use: Written and Oral Communications on Campus

All written and oral communications of administrators, faculty, staff, and students should be consistent with the University's belief that all persons are sacred.

Language used on campus should respect the dignity and inherent worth of every individual regardless of age, ethnic or racial identification, gender, mental or physical ability, religious persuasion, sexual orientation, and social class.

To be encouraged is language which does not perpetuate stereotypes or unfairly characterize any individuals on the basis of group identification.

Student Leaves of Absence

Non-Medical Leave of Absence

Villanova recognizes that it is sometimes necessary for students to interrupt their enrollment for a period of time and take a leave of absence. Students may take a non-medical leave for a variety of reasons including, for example, to attend to academic, personal, or financial matters.

Non-Medical Leave of Absence Process

A student who wishes to take a non-medical leave of absence must take the following steps:

1. Submit a completed "[Request for Non-Medical Leave of Absence](#)" form to the

Dean's office of the student's academic college or the Dean of Students office, or their designee; and

2. Meet with a designated staff or faculty member to review the request.

Students may request a non-medical leave at any time during the semester, but must complete such requests – including any requisite evaluation and related paperwork – no later than the last day of classes in a semester. If a student does not complete a non-medical leave request by the last day of classes, the University will deem the request late and consider it for the following semester.

If the University finds good cause, a leave may be granted. Because every student's situation is different, the terms of a non-medical leave will be determined individually, including the duration of leave, any restrictions from living in residence halls or coming on campus or attending University events, and any conditions for the student's eligibility to return to campus following the leave.

Medical Leave of Absence

Students may request a medical leave of absence (MLOA) if they experience health situations that significantly limit their ability to function successfully or safely in their role as students.

Medical Leave of Absence Process

A student seeking a MLOA must take the following steps:

1. Submit a completed "[Request for Medical Leave of Absence](#)" form to the Dean's office of the student's academic college or the Dean of Students office, or their designee; and
2. Meet with a designated staff or faculty member to review the request.

The student may be asked to schedule and undergo an evaluation by the Student Health Center and/or the University Counseling Center before a leave is granted. This evaluation will occur after the student has met with the Dean, Associate/Assistant Dean, or their designee. The student may be asked to sign a release allowing the Student Health Center and/or the University Counseling Center to discuss their evaluation of

the student with the Dean, Associate/Assistant Dean, or their designee who is reviewing the request.

After evaluating the student, the Student Health Center and/or the University Counseling Center will determine whether a significant health issue has compromised the student's health, safety or academic success, and will submit an individualized recommendation to the Dean, Associate/Assistant Dean, or their designee regarding the student's request for a MLOA.

The Dean, Associate/Assistant Dean, or their designee reviewing the request will make the final determination whether to grant the MLOA and will notify the student of the decision in writing. Because every student's situation is different, the terms of a MLOA will be determined individually, including the duration of leave, any restrictions from living in residence halls or coming on campus or attending University events, and any conditions for the student's eligibility to return to campus following the MLOA.

Students may request a MLOA at any time during the semester, but must complete such requests – including any requisite evaluation and related paperwork for the Dean's office – no later than the last day of classes in a semester. If a student does not complete a MLOA request by the last day of classes, the University will deem the request late and consider it for the following semester.

Return Following a Leave

Some students who take a leave will have no requirements attached to their return to the University. However, students may be subject to specific requirements for their return based on the circumstances of their departure. Any conditions or requirements for return will be based on an individualized assessment of the student, including consideration of current medical knowledge and/or the best available objective evidence. The goal of these conditions is to prepare the student for a successful return to the University.

A student who is placed on a leave of absence for any reason, voluntary or involuntary, may apply to return to the University by writing to the Dean's office that granted the leave. The student must demonstrate that the student has met any

conditions or requirements that were specified for the student's return to the campus community.

Students on leave must complete their request to return submissions by December 1 for the spring semester, April 1 for the summer semester, and July 1 for the fall semester. These deadlines ensure that the appropriate University officials have enough time to review the student's request. The University will attempt to be flexible and review requests completed within a reasonable time after the relevant deadline. Nevertheless, if there is information missing from the request, and/or the University needs additional time to contact the student's treating provider(s) (for health-related leaves), the University may consider the student's return for the following semester than the semester for which the student initially sought to return.

For more information about student leaves of absence, please see the full [Student Leave of Absence Policy](#).

Official Date of Graduation

The official dates of graduation for the University are May 31, September 1, and December 31. The deans shall send the registrar a list of all students in their college or school who have satisfactorily completed by the official date all the requirements for graduation. The registrar shall issue diplomas only to those students whose names appear on the list. The dates for the annual commencement exercises held after Spring term concludes are published on the yearly Academic Calendar.

Technical Correction Approved by The Provost:
May 13, 2024

Approved by Council of Deans: December 8,
1978

Revised by Council of Deans: January 12,
1979

Religious Holidays

Villanova University's Mission Statement calls on the University "to reflect the spirit of St. Augustine...by respect for individual differences, and by adherence to the principle that mutual love and respect should animate every aspect of University life." As a Catholic and Christian University, Villanova seeks to respect and support the diverse religious traditions of the members of the University community. As part of this commitment, the University makes every reasonable effort to allow members of the community to observe their religious holidays, consistent with the University's obligations, responsibilities, and policies. Students who expect to miss a class or assignment due to the observance of a religious holiday should discuss the matter with their professors as soon as possible, normally at least two weeks in advance. Absence from classes or examinations for religious reasons does not relieve students from responsibility for any part of the course work required during the absence. Faculty, if possible, should try to accommodate students with make-up tests or exams if the absence falls on a day when these tests are being administered and/or provide students with reasonable alternative opportunities to complete their academic assignments.

Should a disagreement arise over the implementation of this policy, the matter should be taken to the chair of the department or the program director having jurisdiction over the class in question. If no resolution is reached at that level, the issue will be resolved by the Dean of the College having jurisdiction over the class, and his/her decision shall be final.

Approved at Council of Deans, Academic Policy Committee and Committee on Faculty June, 2006

Residence Requirement for Graduation

Residence Requirement for Graduation
Normally, a student must complete the final 30 credit hours of an academic program at Villanova. Exceptions may be made by the College Dean.

Change in Residence Requirement approved at Deans' Council on October 1, 2020 - by email.

Scholastic Load

A student must take a minimum of 12 credits a semester to be a full-time student. Permission to take fewer than 12 credit hours may be obtained in exceptional circumstances with the written approval of the Dean.

A normal scholastic load is defined by the program set forth in this catalog. In the Villanova School of Business and the College of Liberal Arts & Sciences, students with a G.P.A. over 3.0 may sign up for an overload with registration for the sixth course possible only after the main registration period is over. No special approval would be needed.

Snow/Inclement Weather Policy

Closing/Delay Opening Policy for Cancellation or Postponement of Classes

Villanova University intends to maintain its regularly scheduled classes and final examination periods, avoiding school closings due to inclement weather whenever possible. A delayed opening is preferable to closing for an entire day. In deciding whether to close or delay opening, several factors are considered: the character of the storm (onset time, intensity, and duration); the condition of travel routes to the University; and the condition of campus roads and walkways.

Policy:

If weather factors are unfavorable and not expected to improve, all in-person classes normally will be cancelled for the day; in-person graduate classes may be offered remotely at the discretion of the professor. If there is a good chance that conditions will be acceptable by mid-morning, however, the opening of school will be delayed.

In such delayed opening circumstances, the first class will be cancelled on Tuesdays and Thursdays, and the school day will begin with the second regularly scheduled class at 10:00 A.M. On Mondays, Wednesdays, and Fridays, the first two classes will be cancelled, and the school day will begin with the third regularly scheduled class

at 10:40 A.M.; for the Charles Widger School of Law (CWSL), the day will begin at 10:15 A.M. Occasionally, classes in the later afternoon and evening are cancelled when bad weather conditions develop during the day.

Because students come from various locations and distances, some of which may be more seriously affected by adverse weather than others, students must, as always, exercise their judgment on whether it is safe to drive to the University. If a student decides it is not safe to attend class, then they must inform their faculty in advance of the class and the student's absence will be excused. Because faculty also come from various locations and distances, some of which may be more seriously affected by adverse weather than others, faculty must, as always, exercise their judgment on whether it is safe to drive to the University. If they believe it unsafe or untenable, they may convert class to an online structure, but must contact students at least two hours prior to the class start time if they choose to do so and must inform their Department Chair/Program Director.

During final examination week, a delayed opening means that the first exam of the day is cancelled. It will be rescheduled in an appropriate manner. If weather conditions make it impossible for a student to come to campus for an exam, they should contact the professor in advance of the scheduled exam to explain the situation and to schedule a make-up examination. At the CWSL, students should contact the registrar.

Unless students are notified otherwise by their College, courses that meet fully online, or already have a previously scheduled online course meeting for the day of inclement weather, will continue as planned, even if the university is closed. Instructors should make it clear to students if assignment due dates will be changed based on a school closure.

The Fitzpatrick College of Nursing has a special procedure for the closing of its clinical practicum courses; the procedure may be obtained from the Fitzpatrick College of Nursing. All other Nursing courses are subject to the standard University schedule, above.

NOTE: Check for the separate [policy](#) issued by the Human Resource Office covering staff obligations and University office operations in the case of closings and delayed openings. For

information concerning the Executive MBA Program, contact the EMBA office directly or visit the [website](#).

Procedure:

The announcement concerning closing or delayed opening normally is made via NOVA ALERT, on the University snow and emergency number (610-519-4505), the Law School snow and emergency number (610-519-7744), the voice mailboxes of University telephones, and posted to the University website by 6:00 A.M. In the case of an announced delayed opening, if the situation should worsen and if a subsequent decision is made to cancel classes and close the University, a **closing** announcement normally would be made by 8:30 A.M. Villanova faculty, staff and students are therefore advised to **recheck** the announcements until 8:30 A.M., prior to departing for school.

Evening class closure announcements will be made in the same manner, normally prior to 2:00 P.M. University offices are notified via a telephone message chain.

Information for Friday evening and Saturday Class Cancellation or Postponement of Classes

For information concerning courses offered on weekends and at off-site locations by the College of Professional Studies (CPS), contact CPS directly or visit the [website](#).

Classes and workshops on Friday evening and Saturday offered by the Villanova School of Business, the Fitzpatrick College of Nursing, the College of Engineering and the College of Liberal Arts & Sciences will be held as scheduled unless the instructor has notified the students otherwise.

Recommended by Academic Policy Committee, November 15, 2021.

Updated by Council of Deans November 17, 2021.

Approved by Provost, November 17, 2021.

Approved by President, November 18, 2021

Sports Wagering Restrictions

I. PURPOSE

Villanova University maintains an athletic program that promotes the educational experience of its student-athletes and sustains a clear line of demarcation between the collegiate and professional sports models. As a member institution of the National Collegiate Athletic Association (NCAA), Villanova University adheres to the NCAA Bylaws which provide that student-athletes and those who provide support to the athletic program are prohibited from engaging in sports wagering.

Recently, the Commonwealth of Pennsylvania Gaming Control Board issued temporary regulations by which the Commonwealth of Pennsylvania has authorized slot machine licensees to seek approval to conduct sports wagering. Under current Commonwealth of Pennsylvania law, sporting events that can be the subject of wagering include both professional and collegiate sports and athletic events.

This policy seeks to strike the necessary balance between the NCAA Bylaws that Villanova University and its student-athletes must follow and the Commonwealth of Pennsylvania Gaming Control Board's temporary regulations implementing permissible wagering activities. It is recognized that changes to this University policy may need to be made as the Gaming Control Board's temporary regulations are further refined and formalized.

II. Scope

This policy applies to all Villanova University students, faculty and staff. This policy also applies to any and all independent contractors who provide services to the Villanova University Department of Athletics, its athletic teams and student-athletes.

III. DEFINITIONS

Under NCAA Bylaw 10.02.2, a wager is any agreement in which an individual or entity agrees to give up an item of value (e.g., cash, shirt, dinner) in exchange for the possibility of gaining another item of value. (NCAA Bylaw 10.02.2)

Under Pennsylvania Gaming Control Board Temporary Regulations (“Temporary Regulations”), sports wagering includes accepting wagers on sporting events or on the individual performance statistic of athletes in a sporting event or combination of sporting events by any system or method of wagering, including over the Internet through web sites and mobile applications. The term includes exchange wagering, parlays, over-under, moneyline, pools and straight bets. The term does not include pari-mutuel betting on the outcome of thoroughbred or harness horse racing, legislatively authorized lottery, ilottery, bingo and small games, and slot machine gaming, table games, Keno and fantasy contests.

“Nonpublic” or “exclusive” information is interpreted to mean information that could influence the outcome of an athletic event such as player availability, health status, academic eligibility status or other factor that only those in close proximity with the student-athlete or athletic team could readily ascertain.

IV. POLICY STATEMENT

A. Restrictions Applicable to ALL Villanova University Students, Faculty, Staff and Specified Independent Contractors:

Villanova University faculty, staff and students, who are 21 years of age or older, are not permitted to wager on any athletic event (e.g., practice) or contest in which a Villanova University athletic team or student-athlete participates. Similarly, Villanova University faculty, staff and students may not knowingly disclose nonpublic information regarding its athletic teams or student-athletes for the purpose of influencing wagering activities. These restrictions also apply to any independent contractors who provide services to Villanova University student-athletes or the Department of Athletics and, in doing so, may gain access to nonpublic information. Examples include, without limitation, physical therapists, athletic trainers, health care professionals, referees, officials, sports equipment staffing, and contractors working on the construction or repair of athletic facilities such as carpenters and electrical personnel.

Sports wagering by individuals under the age of 21 is strictly prohibited under Pennsylvania law.

B. Additional Restrictions Applicable to ALL Villanova University Student-Athletes, Athletics

Department Staff Members and Non-Athletics Department Staff Members who Have Responsibilities Within or Over the Athletics Department:

Under applicable NCAA Bylaws, student-athletes, members of the Villanova University Department of Athletics, and non-athletics department staff members who have responsibilities within or over the Department of Athletics are subject to broader restrictions and are prohibited from wagering on any athletic contests or teams, whether they are collegiate, amateur, or professional.

Student-athletes and Athletics Department staff members shall not knowingly:

1. Provide information to individuals involved in organized gambling activity concerning intercollegiate athletics competition;
2. Engage in activities designed to influence the outcome of an intercollegiate contest or in an effort to affect win-loss margins (“point shaving”);
3. Participate in any sports wagering activity, including soliciting or accepting a bet, involving Villanova University teams or contests;
4. Participate in any sports wagering activity involving intercollegiate, amateur, or contests, pools or fantasy leagues in which an entry fee is required and there is an opportunity to win a prize, or any other method employed by organized gambling.

Sports that **cannot** be bet on are:

1. All sports sponsored by the NCAA (including all NCAA Tournament Pools)
2. Intercollegiate Sports
3. Amateur Sports
4. Professional Sports
5. Fantasy Sports

The consequences for violations of this policy are explained in detail in **Section V. Procedure** below.

V. PROCEDURE

A. Violations of Restrictions Applicable to ALL Villanova University Students, Faculty, Staff and Specified Independent Contractors:

Any individual who violates this policy will be subject to disciplinary action in accordance with the applicable University procedures that

implement sanctions for students, faculty, and staff. Independent contractors will be subject to suspension procedures through the Villanova University Procurement Department.

**B. Violations of Additional Restrictions
Applicable to ALL Villanova University Student-Athletes, Athletics Department Staff Members and Non-Athletics Department Staff Members who Have Responsibilities Within or Over the Athletics Department:**

The sanctions for violations of NCAA Bylaw 10.3, Sports Wagering Activities, shall apply as follows:

1. A Villanova University student-athlete who engages in activities designed to influence the outcome of any intercollegiate contest or in an effort to affect win-loss margins (i.e., “point shaving”) or who participates in any sports wagering activity involving Villanova University athletics teams shall be subject to sanctions up to and including permanent loss of all remaining regular season and postseason eligibility in all sports.
2. A Villanova student-athlete who solicits or accepts a bet or who participates in any sports wagering activity on any intercollegiate, amateur or professional team or contest, through the Internet, a bookmaker or parlay card, auctions in which bids are placed on teams, individuals or contests, and pools or fantasy leagues in which an entry fee is required and there is an opportunity to win a prize, or any other method employed by organized gambling, shall be subject to sanctions up to and including permanent loss of all remaining regular season and postseason eligibility in all sports.
3. A Villanova University Athletics Department staff member, or a Non-Athletics Department staff member who has responsibilities within or over the Athletics Department, who engages in activities designed to influence the outcome of any intercollegiate contest or in an effort to affect win-loss margins (i.e., “point shaving”) or who participates in any sports wagering activity involving Villanova University athletic teams shall be subject to sanctions up to and including termination of employment.
4. A Villanova University Athletics Department staff member, or a Non-Athletics Department staff member who has

responsibilities within or over the Athletics Department who solicits or accepts a bet or who participates in any sports wagering activity, on any intercollegiate, amateur or professional team or contest through the Internet, a bookmaker or parlay card, auctions in which bids are placed on teams, individuals or contests, and pools or fantasy leagues in which an entry fee is required and there is an opportunity to win a prize or any other method employed by organized gambling, shall be subject to sanctions up to and including termination of employment.

VI. RELATED INFORMATION/FORMS

VII. HISTORY

Effective Date: November 12, 2018

VIII. RESPONSIBLE UNIVERSITY DIVISION/ DEPARTMENT

Athletic Director
800 East Lancaster Avenue
Jake Nevin Field House
Villanova, PA 19085

IX. RESPONSIBLE ADMINISTRATIVE OVERSIGHT

Assistant AD - Compliance
Athletics Compliance Office
800 East Lancaster Avenue
Jake Nevin Field House
Villanova, PA 19085

University Compliance Officer
University Compliance Office
205 Tolentine Hall
800 Lancaster Avenue Villanova, PA 19085
(610) 519-5466

Student Complaint Process

Complaint Process for Distance Education Students

Villanova University is approved by the Commonwealth of Pennsylvania to participate in the [National Council for State Authorization Reciprocity Agreements](#) (NC-SARA). NC-SARA is a voluntary, regional approach to state oversight

of postsecondary distance education. Participation in NC-SARA enables prospective and current students located in all [SARA member states and territories](#) to enroll in approved distance education offered by all six colleges at the University.

Students enrolled in distance education programs should follow the University's established internal complaint process.

Students residing in [SARA member states and territories](#) who are not satisfied with the outcome of the institutional process can appeal the decision to the Pennsylvania Department of Education, by following the [Student Complaint Procedures](#). Please note that complaints about grades and student conduct are governed entirely by Villanova's institutional policies. For more information on NC-SARA's policies, please visit the [SARA Student complaints](#) webpage. Students can also contact the appropriate agency in their home state or territory. For a complete list of consumer complaint contact information by state or territory, please reference [this list](#).

Grade Appeals & Complaints Against Faculty

The purpose of these Guidelines is to provide a mechanism for the review of student grade appeals and complaints regarding faculty performance within the framework of existing University, college and department policies and rules. For this reason, those policies and rules may not themselves be the proper subject matter of a complaint under these Guidelines.

Normally, the resolution of grade appeals or complaints will proceed by the following route: (1) to the chair of the department (program director of the program in the College of Nursing, or Assistant/Associate Dean in the College of Professional Studies^[1]) involved, then if necessary, (2) to the committee constituted to handle complaints, and finally if necessary, (3) to the dean of the college or where appropriate the

Graduate Dean of Liberal Arts and Sciences. The University, however, believes that each student and faculty member deserves to be treated as an individual with courtesy and respect. Consequently, it is impossible to develop a policy that will govern or control every situation. The following procedures were created to apply in most situations that may occur; however, where the faculty member, dean and the Provost (or designee) believe that the circumstances may require special consideration, e.g. where the complaint is of a very personal and sensitive nature, the procedures may not be followed or used in every respect. In no event, however, shall a deviation from these procedures be permitted with respect to the obligation of the committee under section III to rely in its decision making only upon information which has been communicated to the faculty member, thus permitting the faculty member the opportunity to respond. These procedures may be modified at the University's discretion according to the University's norms and procedures.

In the sequel, "chair" shall also imply program director (or Assistant/Associate Dean in CPS as noted) and "dean" shall likewise imply Graduate Dean of Liberal Arts and Sciences where appropriate. These procedures apply to student grade appeals and complaints. Individuals who are not University students may not use these procedures.

A. Faculty Performance Complaints

1. Student complaints concerning an instructor's handling of a class, classroom presentation, professional demeanor, or course policies should be directed to the chair of the faculty member involved (or Associate Dean in the College of Professional Studies). Student complaints about faculty that are received through either ODEI's Climate Concerns mechanism or Ethics Point will also be referred, via the faculty member's dean's office, to the department chair and resolved through the procedures outlined in this policy. As appropriate, ODEI may include the diversity dean in the

faculty member's college as an additional resource for resolving the complaint. If the complaint is against the chair, these procedures shall be modified such that the dean shall undertake the responsibility as the chair under the Guidelines and the Provost (or designee) shall undertake the responsibilities of the dean under these Guidelines. Normally, such complaints should be made within six months of the end of the course in which the complaint arose.

2. **Identified Complaints:** When a person makes a complaint and provides his or her name, the chair will advise the individual to approach the faculty member. The chair's goal will be to arrange a meeting of the parties to permit the issue to be resolved at the local level if at all possible. This also permits the faculty member the opportunity to address the matter directly with the student, which may eliminate the possibility that simple misunderstandings have contributed to the problem. If the Complainant does not agree to a joint meeting, the chair will advise the faculty member of the details. If the Complainant requests that his or her identity remain confidential or the chair considers it appropriate, the identity of the Complainant will remain confidential. The chair will inform the Complainant of the results of the meeting with the faculty member. For cases involving potential sexual harassment, please refer to the section on **SEXUAL HARASSMENT POLICY** in this *Faculty Handbook*.

3. **Anonymous Complaints:** The chair should express displeasure with any anonymous complaint and point out that such complaint (if made by telephone) will not be accepted. If an anonymous written complaint arrives, the chair should inform the faculty member of the details of the complaint.

4. The faculty member shall be presumed to have acted appropriately unless otherwise determined in accordance with these guidelines.

5. The chair shall make reasonable efforts to mediate the complaint. The chair may consult

with others, such as the diversity dean of the college, in connection with their review of the complaint. In the event that the complaint cannot be amicably resolved in the chair's judgment, the chair may make such disposition of the complaint as the chair deems warranted. The chair shall ordinarily communicate their disposition of the complaint to the student initiating the complaint and the faculty member. If the complaint was referred through ODEI's Climate Concerns mechanism or through Ethics Point, its resolution should be conveyed to the appropriate University office—either ODEI for a Climate Concern or the Provost's Office in the case of an Ethics Point concern.

6. If either the student or the faculty member is dissatisfied with the chair's disposition of the complaint, she or he may contact the department committee constituted to handle complaints. This elected or appointed standing committee of the department should be duly constituted following the department's own policy. If a department has too few members to reasonably form such a committee the department, less the faculty member involved, shall constitute a committee of the whole. The student or faculty member should present her or his complaint via a formal written and signed statement to the committee within seven days of the chair's disposition of the matter. The committee shall consider the complaint in accordance with the procedures described in Section III below.

B. Grade complaints

1. Student complaints concerning a grade should be directed to the chair of the faculty member involved (Assistant Deans in the College of Professional Studies). The chair shall normally require, but do no less than urge, a student who brings a complaint about a grade in the first instance to try to resolve the matter with the course instructor. That failing, the chair should attempt to resolve the issue between the student and instructor. The chair may consult with others in connection with his or her review of the complaint. Such complaints should be made according to the following deadlines:

Spring and Summer Semester grade complaints:
Last Friday in August

Fall Semester grade complaints: Last Friday in
January

2. If the complaint is against the chair, it should be directed to the dean and these procedures shall be modified such that the dean shall undertake the responsibilities of the chair under these Guidelines and the Provost (or his or her designee) shall undertake the responsibilities of the dean under these Guidelines.

3. In the event that the complaint cannot be amicably resolved in the chair's judgment, the chair may make such disposition of the complaint as the chair deems warranted. The chair shall ordinarily communicate his or her disposition of the complaint to the student initiating the complaint and the faculty member.

4. In a particularly difficult case the chair may elect to refer the matter to the departmental committee for fact finding and recommendations. The committee shall consider the chair's referral of the matter in accordance with the procedures described in Section III and send its recommendations in writing to the chair. The chair shall be guided in his or her determination by widely accepted professional norms of academic freedom which normally recognize the instructor as the authority in determining grades. The chair shall communicate his or her determination of the complaint to the dean, the faculty member involved, and the Complainant. In general, the formal procedures described below will only take place after a final course grade has been given.

C. Department or College Committee

Upon a referral from the chair in the case of a grade complaint or upon a written complaint from a student of faculty member dissatisfied with a chair's disposition of a faculty

performance complaint, the committee shall meet within a reasonable time to determine how best to handle the review of the particular matter. The committee may convene hearings appropriate in its judgment to the particular situation presented. The committee procedures may include by example and not by limitation, individual interviews, closed hearings, and review of documentation. The committee is not bound, however, by formal rules of evidence. All interviews and hearings shall be conducted in appropriate University facilities designated by the committee and shall be closed to the public. Every committee member need not attend every interview or hearing session. The University does not permit legal counsel to participate in hearings or interviews of the committee on behalf of the student or faculty member. Only information which has been communicated to the faculty member, thus permitting the faculty member an opportunity to respond thereto, shall be relied upon by the committee in reaching its conclusions. The committee shall reach its decision by majority vote.

In the case of a grade complaint, the Committee shall provide its findings of fact and written recommendations to the chair for consideration in the chair's determination of the matter. In making its recommendation to the chair, the committee shall base its decision on clear and convincing evidence and on the principle that the locus of authority in determining grades normally is placed with the instructor, especially in those cases where the instructor is acting in accordance with principles that have been clearly delineated in the course syllabus. In the case of a faculty performance complaint, the committee shall provide its findings of fact and written decision to the student, faculty member and chair. The Committee shall make its decision based on the preponderance of evidence it has reviewed.

D. Appeals Process

In the extraordinary case when a student or faculty member is unwilling to accept the decision of the chair with respect to a complaint or the departmental complaint committee with

respect to a faculty performance complaint, she or he may appeal the decision in writing to the dean within seven days of that decision but only on the following basis:

1. material procedural defect in the Committee, or
2. material procedural defect in the chair's handling of the matter, or
3. new material evidence not reasonably available at the time of the committee or chair's review of the matter.

All written deliberations concerning the complaint shall be forwarded to the dean to aid in the decision. In the course of his or her review of the appeal, the dean may, but shall not be required to, consult with others, interview the Complainant, faculty member, chair, committee members, or others. The decision of the dean shall be final.

E. Complaints Involving Discrimination and Harassment

For cases of grade complaints or faculty performance complaints which may involve sexual harassment or discrimination in violation of University policies. Please refer to the sections on **SEXUAL HARASSMENT POLICY and DISCRIMINATION AND HARASSMENT POLICIES** in this *Faculty Handbook*. For grade appeals or faculty performance complaints based on allegations of discrimination based on disability, including those related to academic or classroom accommodations, please refer to the University's Section 504 Disability Grievance Procedures.

July 1, 2016; Technical Correction November 11, 2024

[1] Some programs in the College of Professional Studies do not have a program director. In

situations when a complaint is raised for those programs, the associate or assistant dean as noted will serve in that capacity.

University Policy for Students with Disabilities

Villanova University strives to provide an environment for personal and intellectual growth of all its students, and also complies with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. In order to meet these commitments, Villanova offers educational opportunities and reasonable academic accommodations for the needs of qualified students with disabilities. The standards for academic credit should not be modified for students with disabilities. Students with disabilities have fulfilled the same entrance requirements, have the same range of backgrounds and experiences as other students at Villanova, and should be fully capable of meeting Villanova's standards. The University's goal is to provide access and reasonable accommodations in helping the students achieve those expectations.

Students with Physical Disabilities

Services for students with physical disabilities are coordinated through the [Office of Disability Services](#).

If you have any questions about access issues, contact:

- stephen.mcwilliams@villanova.edu or call 610-519-4095
- gregory.hannah@villanova.edu or call 610-519-3209

Students with Learning Disabilities, Neurologically Based Disorders, and Chronic Illnesses

Services for students with learning disabilities, other neurologically based disorders, and those disabled by chronic illnesses that impact learning are provided by [Learning Support Services \(LSS\)](#). Students who choose to self-identify and ask for academic accommodations must complete a

registration process with LSS. Please refer to the LSS policies and procedures regarding [Accessing Accommodations](#).

If you have any questions about academic accommodations, contact learning.support.services@villanova.edu or call 610-519-5176

Important Information for Faculty

Students who have not registered with LSS will sometimes approach professors to ask for accommodations. These students should be referred to LSS, so that appropriate accommodations can be worked out in conjunction with LSS. Instructors should not make special accommodations for students who have not registered with LSS.

Please refer to our guidelines on creating a [Syllabus Statement](#) and our suggestions for how to [Work with Students with Disabilities](#). Visit the [Faculty Section](#) on the LSS webpage or contact the LSS office with any questions or concerns at 610-519-5176.

Transfer Credits from Another Institution

TRANSFER CREDITS FROM ANOTHER INSTITUTION

Once undergraduate students have matriculated/enrolled in a degree program at Villanova University, students who wish to take courses elsewhere must attain preapproval from the Dean of the student's college or his/her designee who will ensure that the individual college policies/requirements are met.

- Students may seek to transfer credits from regionally accredited two-year or four-year institutions.
- For credits transferred, a "T" grade will appear on the student's Villanova transcript; there is no impact on a student's cumulative Grade Point Average (GPA).

Special Circumstances:

1. Education Abroad: Courses taken in colleges or universities in other countries will be

transferred for credit, if pre-approved by the Office of Education Abroad and the Dean of the student's college or his/her designee.

2. Summer Courses Elsewhere: Villanova does not approve transfer of credit for courses taken during the summer at other colleges or universities if the same or comparable (for fulfilling degree requirements) courses are offered in a distance learning mode during the summer sessions at Villanova.

Students Who Are No Longer Matriculated:

1. Leave of Absence: Students on a leave of absence may not take classes elsewhere to transfer back to Villanova.
2. Withdrawal and Dismissal: Villanova does not pre-approve courses to be taken at another university after a student has withdrawn or been dismissed from the University for academic reasons. If the student returns to Villanova, courses taken at other colleges and universities will be evaluated for transfer credit by the Dean of the college to which the student is returning. Acceptance of such credits is at the sole discretion of the Dean.
3. Suspension: Villanova will not pre-approve courses or transfer credits back to Villanova, for students who have been suspended for violations of the Student Code of Conduct.

Reviewed at Council of Deans 1-26-07 and later approved 1-31-07

Council of Deans approved revisions 8/5/2020

Technical Revisions approved by BAAD 3/19/2024

Unauthorized Withdrawal

Students who leave the University without authorization will be treated as having withdrawn from the University. They may not return to the University without reapplying directly to one of Villanova's colleges.

Policy on Undergraduates Enrolling in Graduate Courses

1. Undergraduates may take graduate courses, provided they meet the standards set down by each college: e.g., senior standing (in terms of credits, not in terms of years at Villanova), grade point average, and appropriate permissions (advisor, dean, chair, course instructor). The College of Nursing may exempt certain students from the “senior standing” requirement for a limited number of courses that juniors may take. Colleges are urged to compile a list of graduate courses that may and may not be taken, and this list should be available to students upon request. Colleges will ensure that proper advising is provided to undergraduate students with respect to taking graduate courses.
2. Undergraduates may take a maximum of two graduate courses in any semester. If an undergraduate takes a graduate class, in that semester s/he is limited to taking a maximum of 16 credit-hours of work. The deans of the individual college approval procedures may impose more restrictive limits if that is deemed necessary. In the Colleges of Nursing and Engineering, because of scheduling needs, students may, with permission, slightly exceed the 16 hour limit.
3. If allowed by the graduate program, up to nine hours or nine credits of graduate courses taken by undergraduates may double count – both for the bachelor’s degree and for the master’s degree, whether or not a student is formally enrolled in a five year bachelor’s-master’s program. If an undergraduate student completes additional graduate courses beyond the three, the additional course(s) will count toward the undergraduate degree and be included in the student’s undergraduate record unless the Graduate Dean in CLAS, or the appropriate Associate Dean responsible for graduate programs in the other colleges, approves the additional course(s) counting toward the graduate degree only.

4. All graduate courses taken by an undergraduate student will appear and remain on the undergraduate transcript, and will be calculated in the undergraduate GPA. When additional graduate courses beyond the three that will double count are taken, and if the additional graduate courses are allowed to count toward a subsequent graduate degree, then the undergraduate college will need to manage the student’s undergraduate degree audit so that the additional graduate course(s) is/are excluded from fulfilling undergraduate degree requirements. If/when a student becomes a graduate student, and graduate courses taken as an undergraduate student apply to that program, the Graduate Dean in CLAS, or the appropriate Associate Dean responsible for graduate programs in the other colleges, will notify the Registrar’s Office of all graduate courses to be applied to graduate degree requirements, so record adjustments can be made.

*Approved by Provost and Council of Deans
October 31, 2017*

Walkers at Commencement

“Each year there are a small number of students who have not fulfilled all of the requirements for May graduation but who wish to participate in commencement exercises with their entering class. Students who have only three or fewer courses remaining to fulfill the requirements for graduation, or who can complete the degree requirements before the beginning of the next Fall Semester, may petition to participate in the graduation ceremony. The names of all such students throughout the University will not be included in the commencement program until the following May, after they have in fact been graduated. Students may participate in only one commencement ceremony.”

<https://villanova.policytech.com/dotNet/documents/?docid=204&public=true>

Approved at Council of Deans’ Meeting 5/10/04; effective date May, 2005 commencement; modified and reissued at Council of Deans’ Meeting 4/26/06;

effective date May, 2006 commencement;
Modified and reissued by Council of Deans April
7, 2011

Withdrawal from a Course

Until the final day for authorized withdrawal from courses, (for an exact date, see the [academic calendar](#)), a student may withdraw from a course without penalty and will receive the grade of "WX." After that date, a student seeking authorized withdrawal without penalty must petition the Dean of his or her college, who has sole authority to grant withdrawals without penalty. Examples of valid reasons for a petition include unexpected emergency situations, significant medical concerns (documentation required).

Note that withdrawals without permission will receive a "W" grade, which is calculated as an "F" in computing one's quality point average.

Withdrawal from University

Students who wish to leave and who do not plan to return to the University should request a Withdrawal. Official withdrawal from the University must be authorized by the Dean of the appropriate college. In order to affect an official withdrawal, a student must submit to the Dean a formal letter, or the appropriate college form, and then have an interview with the Dean. The letter of withdrawal may be countersigned by the student's parents or legal guardian. The parents or guardians may, if they wish and if authorized by the student, submit the official letter of withdrawal. Students who request an official withdrawal during the semester may be entitled to a tuition reversal based on the University's policies. A student who has withdrawn from the University who wishes to return, must apply directly to the college the student wishes to attend (admission is granted at the sole discretion of the dean of that college).

Reviewed at Council of Deans 1-26-07 and later approved 1-31-07; Technical edits March 21, 2024

University Leadership

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Dean, College of Professional Studies	Christine Kelleher Palus, PhD

College of Liberal Arts and Sciences

College of Liberal Arts and Sciences Directory

Adele Lindenmeyr, Ph.D., Dean

Emory Woodard, Ph.D., Dean, Graduate Studies

Crystal J. Lucky, Ph.D., Associate Dean for Baccalaureate Studies

Kevin Minbiole, Ph.D., Associate Dean for Research

Joseph Lennon, Ph.D., Associate Dean for International & Interdisciplinary Studies

Edward Fierros, Ph.D., Associate Dean for Diversity and Inclusion

Rebecca Rebalsky, Assistant Dean for External and College Relations

Susan Jacobs, M.A., Assistant Dean for Undergraduate Students

Seth Matthew Fishman, Ph.D., Assistant Dean of Curriculum and Assessment

Colleen Hinds, Assistant Dean for Finance & Operations

Office: 105 Saint Augustine Center for the Liberal Arts

Phone: 610-519-4600

E-mail Associate Deans:

artssciences@villanova.edu

E-mail Dean: asdean@villanova.edu

Website: <https://www1.villanova.edu/university/liberal-arts-sciences.html>

Set love as the criterion of all that you say, and whatever you teach, teach in such a way that the person to whom you speak, by hearing, may believe, by believing hope, and by hoping love.

The Instruction of Beginners - St. Augustine

History

The College of Liberal Arts and Sciences of Villanova University was founded by the Augustinian Order in 1842. The College traces its origins to old St. Augustine's Church in Philadelphia, which the Augustinians founded in 1796, and to its parish school, St. Augustine's Academy, established in 1811.

In 1842 the Augustinians purchased "Belle Air," the country estate of John Rudolph, a Revolutionary War officer and Philadelphia merchant. There they established the "Augustinian College of Villanova," under the patronage of St. Thomas of Villanova, a 16th century Augustinian educator and Bishop of Valencia, Spain. Eventually the College came to be known as Villanova and gave its name to the town which grew up around it.

Classes for the new college began on September 18, 1843, when 13 students embarked on a traditional liberal arts curriculum. At the outset, however, difficulties plagued the new college. The anti-Catholic "Know Nothing" riots in Philadelphia in 1844 resulted in the burning of St. Augustine's Church. The need to rebuild the church and maintain the new college created a financial crisis for the Order. As a result, the College closed its doors on February 20, 1845. It was able to reopen in September, 1846, with a student population of 24; the first commencement took place on July 21, 1847. The following year, on March 10, 1848, the Governor of Pennsylvania, Francis R. Shunk, signed the Act of Legislature incorporating the College.

In 1857, Villanova College closed for a second time. Demands on the services of priests through the expansion of parishes in the area created staffing problems for the Augustinians, while the "Panic of 1857" brought on hard economic times. The onslaught of the Civil War in 1860 affected student enrollment, and the College was not reopened until September 1865.

In the years that followed, the College prospered, increasing its student population and adding significantly to its physical facilities. Although in the first 50 years of its existence the College concentrated exclusively on the liberal arts, it nevertheless remained open to the changes in curriculum which were required to meet the needs of the time and the demands for specialization.

Today, the College continues to offer a variety of educational programs that are aimed at the total growth of the individual and which prepare students for viable careers. Graduates of the College have taken their place in almost every field of endeavor, serving in education, business, government, law, medicine, and research, where they make vital contributions to the communities and the world in which they live.

Academic Mission

The College of Liberal Arts and Sciences exists to provide an atmosphere of responsible learning to a varied group of students who are called to intellectual, moral, and professional leadership. To fulfill these goals, the College seeks to promote intellectual curiosity and rigor within the university; to instill the fundamentals of critical insight, mature judgment, and independent thinking; and to awaken in its students a sense of the importance of values and the moral responsibility of caring for others and working for the betterment of society.

Villanova has always openly and proudly declared that it is a Catholic institution of higher learning. The University maintains a strong respect for the beliefs of its diverse community of faculty, students, and staff. In keeping with its central place in a Catholic university, the College of Liberal Arts and Sciences has a special commitment to the Christian belief that creation is an expression of the divine truth through the redemptive life, death, and resurrection of Jesus Christ, the incarnate Word of God. It also seeks to provide a Christian intellectual and moral environment, and believes that it is the common right of all to participate in creation, to seek truth, and to apply such truth attained to protect and enrich personal and communal life.

Villanova's special Augustinian heritage enables the College to draw upon the dynamic legacy of St. Augustine, whose passionate pursuit of wisdom, understood through the metaphor of one heart and one mind, inspires its own quest for knowledge in open, intelligent, responsible, and mutually respectful interaction of points of view. This legacy is classically illustrated by the Augustinian Order's impact on the medieval universities, its distinguished cultivation of Renaissance art, and its fostering of the scientific discoveries of Gregor Mendel. It is further expressed in the conviction that all authentic human wisdom is ultimately in harmony with Divine Wisdom, and it invites collaboration with other Christians and peoples of other traditions who might share at least the general features and dynamics of this Augustinian vision.

In light of this legacy, the College has developed a diversified academic program and a core curriculum that provide students with a scale of well-defined universal values that equips them to

be wise critics of the society in which they live, and which sustains a moral base and social consciousness that transcends economic barriers and questions of race, gender, and creed.

The academic mission of the College is intimately connected with its Core Curriculum. The courses in the Core Curriculum treat a broad range of disciplines from a variety of approaches; at the same time, the Core strives to ensure depth of study and intellectual sophistication while recognizing that learning implies different modes of inquiry. The goals of the Core are to:

- Achieve a synthesis of knowledge that provides a basis for informed judgment, not simply "fact finding." This includes learning to think and process information in a critical manner.
- Promote literacy as a foundation for intelligent discourse and the articulation of informed views. This goal acknowledges that literacy spans all disciplines, and undergraduates should demonstrate an ability to understand and utilize a wide variety of information (e.g., scientific, quantitative, cross-cultural, etc.) to articulate said views.
- Define culture in a broad sense, educating students to understand and to appreciate the interrelated patterns of customary beliefs and practices, social forms, aesthetics, and material traits that act to define a culture and its position within a larger historical and intellectual framework. Students should develop an understanding and appreciation of the diversity of cultures and experiences as well as the development of a multicultural and international perspective.
- Acknowledge that our world is vibrant and continuously redefined, not simply a static version of the past. Thus, we challenge students to understand that the present is recognizably formed from past influences. In order to assess the present and arrive at a view of its future, students must be educated to scrutinize and bring into perspective the relationship of the present day with that of the past.
- Prepare students to become active and responsible participants within society, developing an understanding of ethical responsibilities and valuing communal responsibilities.

- Encourage personal development in preparing students to regard themselves as citizens living in society, who have respect for the individual as well as the feeling of belonging to a world community.

The College of Liberal Arts and Sciences is committed to sustaining, improving, and monitoring the effectiveness of our academic programs, guided by a comprehensive assessment plan focused on student learning outcomes. Each academic department has developed their own assessment plan for evaluating your learning experience. Please see your department/program chair or contact Dr. Seth Matthew Fishman (Office of the Dean, SAC 105) for more information. For more information on learning outcomes assessment, please visit <https://www1.villanova.edu/university/liberal-arts-sciences/about/outcomes.html>.

Mission to Students, Faculty, and Staff

The College strongly adheres to the principles of the University Mission Statement that commits Villanova to “developing and sustaining an academic environment in which the potentialities of its members may be realized.” In so doing, the College is guided by the teachings of Vatican II, which emphasized that “the human spirit must be cultivated in such a way that there results a growth in its ability to wonder, to understand, to contemplate, to make personal judgments, and to develop a religious, moral, and social sense” (Pastoral Constitution on the Church in the Modern World, 59).

In order to fulfill its academic mission of transmitting, pursuing, and discovering knowledge, the College commits itself to the hiring and retaining of outstanding teacher-scholars and dedicated staff personnel whose academic and professional interests will develop and foster the goals of the University’s mission. In hiring faculty and staff personnel, the College further commits itself to the goal of maintaining a richness of diversity by actively recruiting women and minorities. In all hiring strategies and decisions, the College strives to utilize procedures that will reliably determine the best qualified applicants.

While the College is committed to maintaining its Catholic identity, it does not seek a particular religious affiliation within its personnel. Rather, as formulated in the University’s mission, it asks that all respect its “attempts to develop an environment in which students, faculty, and staff may experience a Christian intellectual and moral perspective,” and have a willingness to enter into the conversation that gives its mission life and character.

The College is strongly committed to academic freedom that makes open discussion and inquiry possible. It believes open discussion among scholars and students is a self-correcting process that is intrinsic to academic freedom and that this process is in accord with responsible freedom, a central value of the Christian tradition, and of the thought of St. Augustine, the great theologian of Christian freedom.

The College seeks to encourage and equitably reward the valuable performance of its faculty and staff by offering competitive salaries and by making available opportunities that will enhance their professional development. It also seeks to promote a congenial work environment that is conducive to self-motivation. In recruiting students, the College seeks to ensure the best applicant pool possible. It strives to retain students by offering excellent academic programs and by providing them with quality campus activities.

The University’s LEARNING GOALS may be found on the Provost’s website under ‘[University Learning Goals](#)’.

Office for Undergraduate Students

Office for Undergraduate Students Directory

Susan Jacobs, M.A., Assistant Dean for Undergraduate Students
SaraBeth Baker, M.A., Assistant Director for Academic Advising
TBD, Health Professions Advisor
Linda Boettcher, M.A., Director for Academic Advising
Andy Bove, M.A., Associate Director for Academic Advising
Charles Francisco, Assistant Director of Academic Services
Lauren Graham, Manager, Student Academic Records
David Heuring, Coordinator for Professional Development
Kathleen Matkowski, Administrative Coordinator
Paige Matzerath, M.A., Assistant Director of Professional Development
Kate Meloney, M.S.S., M.L.S.P., Director Villanova's Program at SCI Phoenix
Dan Pearson, M.A., Assistant Director for Transfer Advising
Charisma Presley-Dougherty, M.A., Director of Retention and Student Success
Jennifer Shendock Gannon, M.A., Director of Health Professions Advising
Drew Stackhouse, Assistant Director, Systems Management
Stephanie Stefanik, M.A., Retention and Student Success Specialist
Kate Szumanski, M.A., M.S., Director of Professional Development
Jordan Toy, M.S., Director of Student Services
Georgina Waller, M.S., Assistant Director of Retention and Student Success

Office: 107 St. Augustine Center for the Liberal Arts
Telephone: 610-519-3900
Website: <http://ous.villanova.edu>

Vision

The Office for Undergraduate Students (OUS) is the central hub for student academic support and professional development in the College of Liberal Arts and Sciences. Working closely with not only students, but also faculty and CLAS administration, we provide personalized services for CLAS students, connecting them with the resources to forge their own educational and professional direction.

Mission

The Office for Undergraduate Students aspires to continuously improve our services in exploratory academic advising, health professions advising and professional development opportunities for students. We also strive to provide excellent service to the faculty and staff in our CLAS departments—partnering with them to provide academic records and administrative support. We aim to promote partnerships between students, faculty and administration to ensure students have the tools they need to overcome any hurdles they may face.

Academic Advising

Linda Boettcher, M.A., Director
Andrew Bove, M.A., Associate Director
SaraBeth Baker, M.A., Assistant Director for Academic Advising
Dan Pearson, M.A., Assistant Director for Transfer Advising
Kathleen Matkowski, Administrative Coordinator
107 St. Augustine Center for the Liberal Arts
610-519-3900

Academic Advising provides individual attention and guidance to students as they transition into the University and begin to explore their educational interests. Faculty Advisors encourage students to reflect on their course selections and experiential learning opportunities, enabling them to make informed choices about their educational and professional direction. By connecting students to a wide variety of support services, we seek to promote students' development and to facilitate their success.

Through our first-year *Academic Advising* course, we teach students how to obtain the most from their education. Topics include understanding the

value of a liberal arts education and the core requirements, conveying professionalism, assessing and strengthening study skills, learning time management, making informed educational and professional choices, and maintaining student wellness.

Exploratory Science Advising

Christina Winterton, Ph.D., Faculty Advisor,
Exploratory Sciences
107 St. Augustine Center for the Liberal Arts
610-519-3900

Exploratory-Science affords students who have a genuine interest in the natural sciences, but who are somewhat uncertain as to which discipline to pursue, an opportunity to explore a variety of options during their first year at Villanova University. During their freshman year, students enroll in one or two natural science courses with laboratory and mathematics. The Exploratory-Science option provides students with the opportunity to make a considered and data-based decision as to which discipline they wish to pursue for their four years.

Health Professions Advising

Jennifer Shendock Gannon, M.A., Director Health Professions Advising
TBD, Health Professions Advisor
114 St. Augustine Center
610-519-8040
hpa@villanova.edu

Those students planning to apply to any health professional degree program (Medical, Dental, Physician Assistant, Veterinary, Optometry, Physical Therapy, etc.) should contact the Health Professions Advising Office for information on prerequisite coursework, pre-admittance examinations, experiential opportunities, and application procedures. Information sessions related to career exploration, program specifications, and application preparation are held throughout the academic year to enhance applicant knowledge and application quality.

Internship Program

Kate Szumanski, M.A., M.S., Director of Professional Development
Paige Matzerath, M.A., Assistant Director of Professional Development
David Heuring, Coordinator of Internships and Professional Development
107 St. Augustine Center for the Liberal Arts
610-519-3942

The Internship Program provides resources to students, which include individual professional development one-on-one meetings and brainstorming sessions, professional development workshops, and other special events, to assist students as they explore experiential educational opportunities. Through internships, students refine their career interests, develop their professional skills, network with working professionals, and gain valuable experience in a variety of fields. The Internship Program allows students to earn academic credit toward their major or minor, or earn general elective liberal arts credits. Students are required to submit an internship-for-credit application to seek academic credit for their internship experiences. The application may be found by searching 'CLAS Internship-for-Credit Application' on MyNova.

Professional Development

Kate Szumanski, M.A., M.S., Director of Professional Development
Paige Matzerath, M.A., Assistant Director of Professional Development
David Heuring, Coordinator of Internships and Professional Development
117 St. Augustine Center for the Liberal Arts
610-519-3942

The Professional Development area within OUS offers programming, mentoring support, and courses that enable students to identify their strengths, explore professional and educational options, and develop the skills necessary to prepare them for professional life. Through this process, we empower students to pursue their aspirations. The Professional Development curricular component -- Arts and Sciences Professional Development (ASPD) -- provides students with a foundation for learning how their

academic knowledge and skills transfer into the professional world. Students learn how to create a professional résumé, research careers and industries, identify internships, answer job interview questions, and network with alumni. Additional courses offered to enhance professional growth include the Legal Profession, Professional Communication, Networking for Success, Social Networking, Creativity and Innovation, and Introduction to Professional Writing.

The BRIDGE Society in the College of Liberal Arts and Sciences is designed to: build relationships among students and alumni in the College; inspire both student professional development and alumni institutional development; provide a forum for students to gain the experiences necessary to forge their future direction. The BRIDGE Society: provides an opportunity for students to identify with the College, in addition to their major; creates the opportunity for student leadership within the College of Liberal Arts and Sciences; gives students the opportunity to explore potential career paths and meet alumni & employers in their fields of interest.

Retention and Student Success

Charisma Presley, M.A., Director of Retention and Student Success

Georgina Waller, M.Ed., Assistant Director of Retention and Student Success

Stephanie Stefanik, M.A., Retention and Success Specialist

107 St. Augustine Center for Liberal Arts

610-519-7429 or ousretention@villanova.edu

We offer a layer of specialized advising for undergraduate CLAS students to provide a bridge between faculty advisors and campus resources. We work to promote undergraduate student persistence and retention, with an emphasis on factors that may affect a student's academic progress. We offer guidance to students but promote their independence as we encourage them to take responsibility for overcoming any obstacles to their academic success. We provide clarity on university policies related to academic standing, attendance, leaves of absence and degree completion. We actively connect students to our partners around campus

including the University Counseling Center, Dean of Student's Office, Residence Life, Learning Support Services among others.

We strive to support faculty and staff by managing the College's Academic Early Alert Systems, Faculty Feedback Requests, and Attendance Verification processes and forms, all of which are designed to provide feedback on academic performance to advisors and students to enable them to make timely decisions. We provide a case management approach for student Leave of Absence and return to campus requests.

The Core Curriculum

Core Curriculum Overview

Every degree program in the College of Liberal Arts and Sciences is made up of three components: the Core Curriculum, courses in the major, and free electives. **Free electives** are required for all students in the College of Liberal Arts and Sciences and are often used to explore academic interests and determine educational directions. They may also be used to fulfill minors, concentrations, or additional majors.

Courses in the Core Curriculum treat a broad range of disciplines from a variety of approaches; at the same time, the Core Curriculum strives to ensure depth of study and intellectual sophistication while recognizing that learning implies different modes of inquiry. An essential component of the Core Curriculum is a focus on writing. In the pursuit of their degrees, students take a number of courses in which writing requirements play a central role, from the Foundation Courses, including the Augustine and Culture Seminars and the Core Ethics course, to the Core Literature and Writing Seminar. In addition, each major program includes a required research course, normally taken during junior or sophomore years, and a senior capstone course, which is a significant culminating experience that leads students to reflect on the various components of their major curriculum.

The Core aims to advance culture in a broad sense, training students to understand and to

appreciate the interrelated patterns of customary beliefs and practices, social forms, aesthetics, and material traits that act to define a culture and its position within a larger historical and intellectual framework. This educational program does not simply look to the past, but acknowledges that culture is vibrant and continuously redefined. The Core Curriculum challenges students to understand how the present is recognizably formed from past influences, and that in order to assess our culture and arrive at a view of its future, students must be trained to scrutinize and bring into perspective the relationship of the present culture with that of the past.

In fostering active participation in learning, the Core prepares students to become active participants within society, to engage in the process of informed political debate, and to encourage an understanding and appreciation of the diversity of cultures and experiences, a respect for the individual, and the development of a multi-cultural and international perspective. The Core thus encourages personal development in preparing students to regard themselves as citizens living in a democratic society, as belonging to a world community, and as therefore having communal responsibilities.

Summary of Core Curriculum Course Requirements

1. Foundation Courses
 - a. Augustine and Culture Seminar (ACS 1000/1001) (2 courses)
 - b. Theology and Religious Studies (THL 1000) (1 course)
 - c. Philosophy (PHI 1000) (1 course)
 - d. Ethics (ETH 2050) (1 course)
2. Language Requirement (Proficiency)
3. Mathematics or Statistics (1 course)
4. Natural Sciences (2 courses w/ labs)
5. Literature and Writing Seminar (1 course)
6. History (1 course)
7. Social Sciences (2 courses)
8. Fine Arts (1 course)
9. Theology and Religious Studies – Upper Division (1 course)

Diversity Requirement

Two of the courses counting towards degree requirements must have a Diversity attribute.

Select one course from two of the three possible areas of diversity as indicated by the Diversity 1, Diversity 2, or Diversity 3 attributes. (See detailed explanation below)

Fulfilling Core Curriculum Course Requirements

Foundation Courses

Augustine and Culture Seminar (ACS) Sequence (2 courses)

ACS is a humanistic exploration of St. Augustine and of his and our world that focuses on the question: Who am I? The heart of ACS 1000: Ancients is a reading of Augustine's *Confessions*, and contains readings from the Hebrew and Christian scriptures, Greek and Roman antiquity, and cross-cultural texts from Islamic, Buddhist, Confucian, or other traditions. In ACS 1001: Moderns we explore our diverse modern world and give special attention to the modern Catholic intellectual tradition and its ongoing mission to defend the dignity of the human person, to foster human solidarity, and to serve the common good.

ACS is reading- and writing- intensive, and consequently this two-semester course sequence must be taken by all students during the first year of study. Because it is important that students take ACS early in their college careers, students are permitted to drop or withdraw from the courses without academic penalty only under special circumstances. Requests to drop or withdraw must be made to the Assistant Dean for Undergraduate Students. If a student receives permission to drop or withdraw, he or she must take the course at the next possible opportunity.

Theology and Religious Studies (1 course)

THL 1000 involves students of every religion, culture, and worldview in examining the Augustinian vision of "understanding what we believe" (*On Free Choice of the Will* 1.4). Students investigate Christian and non-Christian religious practices, beliefs, and traditions that have developed over time in diverse cultural and religious contexts as they explore faith, reason, and culture in their many, textured relationships.

The course may examine Catholicism theologically, historically, and culturally (Catholic Studies track); explore Christian theological

traditions in their cultural contexts (Faith, Reason, and Culture track); or survey religiosity in general and global religions, including Christianity, in particular as well as their commonalities, differences, and cultural expressions (Global Religious Experience track).

With these foci, the course introduces students to the sources and major thinkers that have shaped responses to the fundamental human questions that underlie all religions and shape the human search for meaning. Students engage religious truth claims, themes, values, and witness as resources for analyzing and critically evaluating contemporary cultural challenges.

Philosophy (1 course)

Knowledge, Reality, Self (PHL 1000) explores the philosophical responses to the questions of how we can know, what is real, and what is the nature of the human person.

Ethics (1 course)

The Good Life: Ethics and Contemporary Moral Problems (ETH 2050) provides critical reflection on distinctive and viable visions of the moral life, with particular focus on Christian, especially Roman Catholic, Augustinian accounts, and explores the significance of different visions through an examination of various contemporary moral questions. ETH 2050 is the capstone of the foundation courses. Normally students should take ETH 2050 by the end of their junior year, after taking the other four foundation courses.

Language Requirement

Students may satisfy the Core Curriculum Language requirement in one of the following ways:

Option A: Start or Continue a Language Offered through Villanova

Start or continue a language through the required 'exit' course indicating that the requirement has been met. Students must begin their language studies to fulfill the Core Curriculum Language requirement no later than sophomore year. Students continuing language studies should begin their first year and continue without interruption.

Students must complete the exit course or higher depending on placement.

1. American Sign Language - ASL 1112/1152*
2. Ancient Greek - GRK 1112
3. Arabic - ARB 1112
4. Chinese - CHI 1112
5. French - FFS 1122
6. German**
7. Irish - IS 1112
8. Italian - ITA 1122
9. Japanese - JPN 1112
10. Latin - LAT 1122
11. Russian - RUS 1112
12. Spanish - SPA 1122
13. Swahili - SWA 1112

**Students who entered Villanova fall of 2023 or later, may select this option to satisfy their language requirement.*

***German is offered through a partner institution and is only available upon discussion/approval with the Office for Undergraduate Students*

Option B: Petition for Exemption from the Core Language Requirement

Documented Language Proficiency

Students who can provide acceptable documentation of proficiency (e.g., TOEFL score, transcript from high school in a language not offered through Villanova) may petition for a language exemption. See the Office for Undergraduate Students for more information.

Native speakers of languages other than English who do not have documentation of language proficiency may satisfy the Core Language requirement by satisfactorily passing a proficiency exam administered by Villanova or another accredited institution and completing a Petition for Exemption. See the Office for Undergraduate Students for more information.

Documented Learning Difference

Students who have documentation supporting an accommodation for differences that affect language acquisition, may be granted a language waiver and may fulfill the Core Language requirement by taking one approved 'world culture' course. Students must submit documentation to Learning Support Services (lss@villanova.edu) or the Office of Access and Disability Services (ods@villanova.edu), depending on the nature of their difference. A student's degree audit dictates the eligible courses that count toward this requirement through use of the Language Waiver Cultural Course attribute.

NOTES:

- Total Credits: Courses that fulfill language requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Placement tests are used to place students only and are not to be confused with a proficiency exam.
- Those who begin their language study in the intermediate or advanced levels, satisfy the requirement through demonstration of proficiency, or receive a language waiver for documented learning differences that affect language acquisition, must still complete the total number of required credits for degree completion.
- Additional questions regarding the Core Curriculum Language requirement should be addressed to a student's faculty advisor or to the Office for Undergraduate Students in SAC 107.

Mathematics or Statistics (1 course)

Students must take one course in either Mathematics or Statistics. Any course offered by the Department of Mathematics and Statistics fulfills the Core Curriculum requirement. Certain courses offered by other departments (e.g., Computer Science and Philosophy) also fulfill the requirement. These courses are designated by the Mathematics A & S Core attribute.

Natural Science (2 courses with laboratory)

Non-science majors meet the Core Curriculum Natural Science requirement by taking two semesters of Mendel Science Experience (MSE), thematically-based lecture/laboratory courses designed for non-science majors; or two semesters of lecture/laboratory courses designed for science majors.

Science (AST, BIO, BIOC, CHM, CBN, CSC, ENV, MAT, PHY - B.S. only, PSY - B.S. only) majors meet the science requirement through the regular program of study in their major.

Literature and Writing Seminar (1 course)

All students take a thematic literature and writing seminar course. Courses designated with the Core Lit & Writing Sem attribute fulfill the requirement.

History (1 course)

This requirement is met by taking a specifically designed course designated by the Core History attribute.

Social Sciences (2 courses)

Students satisfy the requirement by taking two courses designated by the Core Social Sciences attribute.

Students majoring in Cognitive and Behavioral Neuroscience, Criminology, Economics, Geography, Political Science, Psychology, or Sociology fulfill the Core Social Science requirement through the regular program of study in their major.

Fine Arts (1 course)

The requirement is met by taking a course that focuses either on the creative processes that go into making a work of art, or on analysis and interpretation of the products of that artistic creativity. All courses designated with the Fine Arts Requirement attribute fulfill the Core Curriculum requirement.

Theology and Religious Studies - Upper Division (1 course)

The upper division Theology and Religious Studies Core Curriculum requirement develops the theme of faith seeking understanding, engaging culture from a specific disciplinary perspective. Students must take THL 1000 before taking an upper division course designated by the Core Theology attribute.

Diversity Requirement (2 courses)

Consistent with the University's Mission Statement and its implementation of the new Core Curriculum in the College of Arts and Sciences, students will take at least two courses designated as "diversity." Learning to see through the eyes of other peoples and cultures is essential to becoming a citizen of the world. Beyond introducing students to the contextual study of

diverse groups, diversity education must foster understanding of how individuals are affected within systems of power, oppression, deprivation, marginalization, and privilege.

Students are required to select two courses, covering two out of the three areas below:

Diversity 1: Courses that focus on populations (often named as non-dominant, minority, or impoverished groups) in the U.S. or Western Europe, and the systems or mechanisms that give rise to the experiences of power, privilege, and marginalization.

Diversity 2: Courses that focus on women's experiences and/or highlight the relationship between gender, culture, and power.

Diversity 3: Courses that focus on the culture, economics, politics or ecology of societies and nations other than those of Western Europe and the United States and that emphasize power, privilege, and marginalization or a critical analysis of how these cultures define and express themselves.

NOTES:

- Service-learning courses, internships, and other experiential or community-based learning courses may be applied toward the Diversity requirement, provided they include a significant reflective component and have been pre-approved for diversity course credit.
- Study abroad courses may be applied toward this requirement; such courses will be assessed the same way as Villanova courses.
- Although some courses have more than one Diversity attribute, all students must take two different courses; a single course with multiple attributes may not be used to fulfill both Diversity course requirements.
- The Diversity Requirement cannot be fulfilled by independent study or a senior thesis.
- Language courses cannot fulfill the requirement, although literature courses in another language may fulfill the requirement if they are designated with a Diversity attribute.
- A student may fulfill one Diversity course requirement (DIV 1) by taking three 1-credit COM 5300: Dialogue, identity, and Social Justice courses.

Learning Outcomes and Assessment

The College of Liberal Arts and Sciences is committed to sustaining, improving and monitoring the effectiveness of our academic programs, guided by a comprehensive assessment plan focused on student learning outcomes. Approximately 45 faculty assessment liaisons assist their respective departments in improving the academic experience for our students. Several of our liaisons and Seth Fishman, PhD, have presented at academic conferences based on our student outcomes work.

Each department has implemented an assessment plan with an emphasis on incorporating the findings to make evidence-based curricular decisions. Every year, departments and academic programs complete an annual report highlighting their use of assessment findings to enhance and improve their curricula.

In addition, the Core Curriculum Committee is responsible for evaluating the [Core Curriculum](#). A highlight of its work is an interdisciplinary e-portfolio for the Foundation courses, a five-course shared intellectual experience that all undergraduates in the College of Liberal Arts and Sciences complete early in their Villanova career.

Our College Assessment Committee, composed of faculty, academic staff and student representatives, advises and assists Seth Matthew Fishman, PhD, assistant dean, Curriculum and Assessment. For the example, the committee supports the College's overall assessment initiatives, communicates the value of these activities to the faculty of the College, and reviews initial drafts of College assessment reports for our Middle States Accreditation and other outlets as needed.

CLAS Policies

Unless otherwise noted, the College of Liberal Arts and Sciences follows the general University academic policies and regulations listed in the University Catalog. It is the responsibility of the student to know and comply with all academic policies and regulations of the University and the

College of Liberal Arts and Sciences. Such policies may change without prior notice. The policies in this handbook are a sample of University and College policies that are frequently referenced by students and are intended for summary purposes only.

Academic Bankruptcy

First Year:

The Academic Standing Committee may allow a first-year student to declare academic bankruptcy and repeat the semester or academic year with a new start on the cumulative average (though a record of the grades will remain on the transcript) under the following conditions. Bankruptcy for first-year students is for full semesters and cannot be applied to individual courses. Students requesting this action must successfully complete two consecutive semesters in the CLAS and attain a minimum GPA of 2.50 each semester before bankruptcy of their first semester or first year will be approved and reflected on their transcript.

New Degree Programs:

Internal transfer students and students who have switched degree programs within the CLAS may be permitted to bankrupt individual courses from their previous program that do not apply to their new curriculum and are not needed to complete core or free elective requirements. Only grades of D, D- or F are considered for bankruptcy. Applications will be considered during a student's first semester of the senior year. Bankrupted courses will remain on the student's transcript but will be excluded from the calculation of the GPA and earned credit hours. Students must petition the Assistant Dean for Undergraduate Students for the exclusion.

Once a course has been bankrupted the action is permanent and cannot be reversed. In no case will tuition be refunded.

Academic Probation

Any student with a cumulative or technical GPA below 2.0 or who fails to make satisfactory academic progress (i.e., successful completion of at least 12 credits per semester) will be placed on academic probation by the CLAS Academic Standing Committee. Students who have been

placed on academic probation are required to contact their faculty advisor immediately to discuss their probationary status and develop an academic success plan.

While on academic probation, students are required to earn a grade of C or higher in all courses and may be restricted to taking 13 credits. Any F, U, W, or Y grades may lead to academic dismissal. Students on probation are not eligible for N (incomplete) grades. Students on academic probation will normally be allowed only one semester to raise their GPA to the required minimum of 2.0.

Academic Progress

To qualify for a bachelor's degree, a student must earn a cumulative grade point average of at least 2.00 (in addition to completing the studies prescribed for the degree sought). Students must also advance in their studies by successfully completing a minimum of 12 credits per semester. Students who fail to make satisfactory academic process are subject to review by the Academic Standing Committee. Those students may be placed on Academic Probation. In circumstances involving those students who have entered Villanova University through the Academic Advancement Program, satisfactory progress of the student will be determined by the Academic Standing Committee and/or Assistant Dean for Undergraduate Students. In the event that, due to poor high school preparation, additional time is necessary for the student to complete the requirements towards graduation, the student will be viewed as being in a five year program. Satisfactory progress will be viewed accordingly.

Advanced Placement, International Baccalaureate, and A-Level Credit

Students who wish to receive Advanced Placement (AP) credit should request that the College Board send their AP scores to Villanova University (code #2959). AP scores are received by the Registrar's Office and forwarded to the Office for Undergraduate Students (OUS), which determines course credit according to the criteria in the tables below. AP scores for incoming

freshmen usually reach Villanova by mid-July. If scores are received before Fall Semester classes begin, the OUS will communicate with the student and authorize the Registrar's Office to add the appropriate course credit to the student's academic record. If scores are received after classes begin, the OUS will direct the Registrar to add any further course credit for which students are eligible. AP credits appear in the Transfer Credit area of the student's academic transcript. All AP/IB scores must be accepted and approved before a student completes two semesters at Villanova.

New students who have taken AP or International Baccalaureate Higher Level (IB) exams should check with their academic advisor during the first week of classes to verify Villanova's receipt of official scores and ensure that proper adjustments have been made to their academic record and course schedule.

AP and IB credit may not be used to fulfill Core Curriculum requirements. AP and IB credit may be used to fulfill requirements for majors, minors, concentrations, and certificates. AP/IB credit will be treated as transfer credit and all transfer credit policies will apply. Students who wish to remove any AP/IB credit from their record should complete the "Request to Remove AP Credit" form available on MyNova. Once this request has been completed, it cannot be reversed.

[Core Math Options may be viewed here.](#)

Academic Placement Equivalency Chart

AP Examination	Score Required	Equivalent Villanova Course(s)	Credits
Art History- (13)	4	AAH 1101 or AAH 1102	3
Biology- (20)	4	BIO 2105 BIO 2106	4 4
Calculus AB- (66) or Calculus Subgrade- (69)	4	MAT 1500	4
Calculus BC- (68)	4	MAT 1500 MAT 1505 CHM 1103 CHM 1104	4 4 1 1
Chemistry- (25)	4	CHM 1151 CHM 1152	4 4
Chinese Language & Culture- (28)	4	CHI 1009 CHI 1010	4 4
Computer Science A- (31)	4	CSC 1051	4
Computer Science Principles- (32)	4	CSC 1020	3
Economics: Macro- (35)	5	ECO 1002	3

Economics: Micro- (34)	5	ECO 1001	3
English Language & Composition- (36) or	4	ENG 1020	3
English Literature & Composition- (37)			
Environmental Science (40)	4	GEV 1052	3
French Language & Culture- (48)	4	FFS 1119 FFS 1120	3 3
Government and Politics: Comp- (58)	4	PSC 1300	3
Government and Politics: US- (57)	4	PSC 1100	3
History, European- (43)	4	HIS 1021 HIS 1002	3 3
History, U.S.- (07)	4	or HIS 1003 HIS 1040	3
History, World- (93)	4	or HIS 1050	3
Human Geography- (53)	4	GEV 1002	3
Italian Language & Culture- (62)	4	ITA 1119 ITA 1120	3 3
Japanese Language & Culture- (64)	4	JPN 1009 JPN 1010	4 4
Latin- (60)			
<i>A score of 3 or 4 may be used for placement purposes.</i>	4	LAT 1119 LAT 1120	3 3
Physics C: Mechanics- (80)	4	PHY 1100 PHY 1101	3 1
Physics C: Electricity and Magnetism- (82)	4	PHY 1102 PHY 1103	3 1
Psychology- (85)	4	PSY 1000	3
Spanish Language- (87) or Spanish Literature & Culture- (89)	4	SPA 1119 SPA 1120	3 3
Statistics- (90)	4	STAT 1230 or CSC 2300	3 3

International Baccalaureate Credit and Course Equivalence

Subject	Minimum Score Required	Equivalent Villanova Course(s)	Credit
Biology	6	BIO 2105 BIO 2106 CHM 1103	4 4 1
Chemistry	6	CHM 1104 CHM 1151 CHM 1152	1 4 4
Computer Science HL	5	CSC 1051	4
Information Technology	5	CSC 1930	3
Economics	5	ECO 1001 ECO 1002	3 3
English	5	ENG 1020	3
French A2 or B	6	FFS 1119 FFS 1120	3 3
Geography	5	GEV 1002	3
History Americas	6	HIS 4495	3
History Europe	6	HIS 1021	3

Italian A2 or B	6	ITA 1119	3
		ITA 1120	3
Latin	6	LAT 1119	3
		LAT 1120	3
Mathematics: Applications and Interpretation	5 (MAT 1500)	MAT 1500	4
	6 (MAT 1500+ MAT 1505)	MAT 1505	4
Mathematics: Analysis and Approaches	5 (MAT 1500)	MAT 1500	4
	6 (MAT 1500+ MAT 1505)	MAT 1505	4
Music	6	SAR 3030	3
Philosophy	6	PHI 2990	3
		PHY 1100	3
Physics	6	PHY 1101	1
		PHY 1102	3
		PHY 1103	1
Psychology	6	PSY 1000	3
Spanish A2 or B	6	SPA 1119	3
		SPA 1120	3

Note: IB Credit is Only Given for Higher Level Exams

A-Level Equivalency Chart

Subject	Equivalent Villanova Course(s)	Credit
Arabic - Language (AS Level only) - 8680	ARB 1111 & 1112 with A/B grade.	8
	ARB 1111 with grade of 4 C or better.	4
Biology - 9700	BIO 2105 & 2106	8
	CHM 1103	
Chemistry - 9701	CHM 1151	10
	CHM 1104	
	CHM 1152	
Chinese - Language & Literature (A-Level only) - 9868	CHI 1009 & 1010 with A/B grade.	8
	CHI 1009 with grade of C or better.	4
*Computer Science - 9618	See below	-
Economics - 9708	ECO 1001 & ECO 1002	6
English Literature - 9695	ENG 2790	3
French Language (AS Level only) - 8682	FFS 1131	3
French Language & Literature - 9898	FFS 1131	3
Geography - 9696	GEV 1002 & GEV 1003	6
History - 9489	HIS 1050	3
History - 9981	HIS 2698	3
*Mathematics - 9709	See below	-
*Mathematics (Further) - 9231	See below	-
Physics - 9702	TBD	-
Psychology	PSY 1000	3
Sociology - 9699	SOC 1000	3
Spanish Language & Literature (A-Level only) - 9844	SPA 1119 & SPA 1120	6

*Students who take A-Level for Math, Statistics, or Computing Science should consult the Office for Undergraduate Students (OUS) because credit may be granted, but is not guaranteed.

Apply for Re-Admission

Students applying for re-admission to the full-time undergraduate day program should complete the “Application for Re-Admission to the College of Liberal Arts & Sciences” form. Generally, a degree program should be completed within six years of original start date. However, students may be considered for a return to full-time day student status within approximately eight years of their original date of enrollment. Factors influencing decisions on re-admission include credits completed at departure and remaining major requirements. Once more than eight years have passed from original start date, former students **must** apply to complete a degree program through the College of Professional Studies.

If eight or fewer years have passed since original start date, and you wish to take classes in person on a full-time basis, please forward this form and the accompanying items to the Office for Undergraduate Students (SAC 107) via email at ous@villanova.edu, fax at (610) 519-6322 or the address below:

Office for Undergraduate Students
Attn: Assistant Dean
800 E. Lancaster Avenue
SAC 107
Villanova, PA 19085

Applications take several weeks to be reviewed since we may need to access old records. Please submit the application no later than November 15 for a possible spring start, April 15 for a summer start and July 15 for a possible fall start.

Applications received less than one month prior to the start of a new semester will be considered for the following semester.

Attributes

Course attributes are not retroactive. In order to fulfill requirements (such as Diversity) the course must have the attribute on the official record during the semester in which the student is enrolled.

Auditing a Course

A student may elect to audit a course to reinforce and strengthen his/her current knowledge or to explore new areas without the pressure of tests and grades. No academic credit is earned for auditing a course; however, the audited course is noted on the student's official record. Permission to audit a course must be obtained from the course instructor. Forms to request to audit the course are available online. Visit MyNova and search for OUS Forms.

CLAS Students Taking College of Professional Studies Courses

Students in the College of Liberal Arts & Sciences are not permitted to enroll in courses restricted to the College of Professional Studies. Course restriction information is available through searching the master schedule in MyNova.

Closed Section

Students will not be permitted to enroll in closed sections. Exceptions to this rule will be made only by the chairperson of the academic department offering the course. If other sections or other courses are available to satisfy the degree requirements, then the exception will not be granted. Student employment conflict is not a legitimate reason for admittance to a closed section.

Credit by Exam

To encourage independent study and recognize personal knowledge and mastery of subject matter, Villanova University provides qualified matriculated students with the opportunity to "test out" of certain courses. The student who successfully passes such an examination satisfies the requirements of and earns the credit for the respective course. For more information, [see the webpage located here](#).

Limitations

Participation in the program is not automatically given, and is contingent upon the following limitations:

1. The student must be matriculated, and offer evidence of sufficient background to the department offering the exam to have a reasonable command of the subject matter;
2. If the student has previously taken the exam to waive course requirements, the student may not take an exam for credit in the same course;
3. A student cannot use this program to pass a course for which the student has failed, either at Villanova or any institution;
4. A student on probation, or who is suspended, may not take an exam for credit;

Conditions

The granting of credit is contingent upon the following conditions:

1. A student may not challenge a language requirement in their primary language. Once a sequence of language has begun, a student may not revert to a lower-level course.
2. A fee of \$125 per credit hour will be levied
3. Credit granted will not exceed that assigned to the course as listed in the University Catalog
4. The maximum credit allowed the student through this program is 30 hours
5. Credit for no more than three courses may be applied to a student's major
6. A passing grade of "CE" will appear on the student's transcript; a failing grade will not be recorded
7. The test dates, determined by the Director of Student Services, will take place shortly after the mid-semester break and before the pre-registration period in the Fall and Spring. The exam is also given in July.

Procedure

1. The application process is the responsibility of the student and must be completed one month before the date of the exam. The student begins the application process with the director who will provide them with the appropriate forms and directions for completion.
2. The form is then taken to the Bursar's Office for validation once the appropriate fee is paid. A "no show" student forfeits all fees.
3. During the week prior to the exam, the department will provide the director with a copy of the exam for each candidate. This

will be in a sealed envelope properly identified with the student's name, Banner ID, department, and exam title on its front.

4. Notification of students of time and place of the exam, and other arrangements, are the responsibility of the Director.
5. Students who fail the exam have the right to review it with the faculty in question. Exams are destroyed in the semester in which they are administered.
6. The Director will notify the students and the Registrar's Office of the exam results.

Credit Increases

Students should complete the "Request for a Credit Increase" form if trying to register for five courses of three or more credits (and additional 1 to 2 credit courses) and need more than 17 credits, if an Arts student, or 19 credits, if a Sciences student. The form should be completed prior to the assigned registration time and submitted it to the Office for Undergraduate Students.

Note: If a student's cumulative GPA is at least 3.0 and she/he/they would like to take a sixth course with credits totaling to 19 credits, the credit limit is raised after the final registration period for students with a cumulative GPA of 3.0 or higher for arts students. Students that fall under this category do not need to fill out a form.

Cross College Majors

Students in the College of Engineering, M. Louise Fitzpatrick College of Nursing, and the Villanova School of Business may pursue a second major in the College of Liberal Arts and Sciences. The CLAS major will be considered a second major added to the student's primary degree program; the student will not be required to complete CLAS Core or Free Elective requirements and will not be awarded a second degree. The second major will be noted on the student's official transcript. Students who wish to pursue this option must complete the appropriate form (available in the Office for Undergraduate Students, SAC 107) and obtain all required signatures.

Dean's List

At the end of the fall and spring semesters, the College of Liberal Arts and Sciences officially recognizes its high-achieving students by including their names on the Dean's List. Inclusion on this list recognizes a student's commitment to an intellectually rigorous education in the liberal arts and sciences, one that fosters critical insight, mature judgment, and independent thinking. Students must complete at least 12 credits of letter grade courses each semester with a minimum GPA of 3.50. No S, WX, or N grades are permitted in these 12 credits.

Declaring or Changing a Major for CLAS Students

Students wishing to declare or change their major/program should complete the "Application to Change or Declare Major" available on MyNova. The department will review and if approved will assign an advisor to the student and forward the form to the Office for Undergraduate Students. Once received, the Office for Undergraduate Students will notify the student of the status of their request.

Declaring a CLAS Minor or Concentration

To declare a concentration or minor within the College of Liberal Arts and Sciences, complete the "Application to Add or Remove a CLAS Minor or Concentration" available on MyNova. Some CLAS departments have additional requirements to apply to the minor. Consult with the department for additional information.

Degree Requirements

Every degree program in the College of Liberal Arts and Sciences is made up of three components: the Core Curriculum, Courses in the Major, and (in most cases) Free Electives. The Baccalaureate degree is awarded when the curriculum prescribed by the College for one or more of the various degree programs has been satisfied. Candidates for graduation must meet all of the following seven requirements:

1. A minimum of 122 credit hours;
2. The successful completion of the Core Curriculum, academic major requirements, and free electives*;
3. A cumulative GPA of at least 2.00. (Science students must also have a minimum technical grade point average of at least 2.00);
4. A minimum of half of the Core Curriculum requirements must be fulfilled at Villanova University;
5. A minimum of half of the requirements for the major must be fulfilled at Villanova University;
6. The final 30 credits of the degree program must be earned at Villanova University or a Villanova University approved program;
7. At least 61 credits must be earned at Villanova University.

**Please note that a maximum of 10 credits in courses fewer than 3-credits may be applied to a students free-elective area. Neither SBI nor Lab courses count toward the 10-credit limit. Further restrictions regarding the subject of these courses apply.*

See the College of Professional Studies Catalog for information on the Bachelor of Interdisciplinary Studies Degree (BIS), the Bachelor of Arts in General Arts, etc.

Double Majors/Primary & Secondary Majors

By default, the first major that a student declares is treated as their primary major. A student may not declare a secondary major without first declaring their primary major.

Students may declare a secondary major by completing the "Application to Declare/Change/Drop Major" form available on MyNova. Students may not double major in both Comprehensive Science and another science OR Liberal Arts and another major.

Declaring a second major does not alter core requirements associated with the primary major, but no new core requirements will be added for the secondary major. In some cases, students may share a limited number of credits between the primary and secondary major. The distinction between the majors is generally administrative,

and both majors will appear equally on a student's transcript. However, students should carefully plan out their final two semesters at Villanova since once a primary major and the core requirements are met, the first degree will be awarded. Please see the University Degree Completion policy.

Multiple majors will appear on a student's transcript, but the student will still receive one diploma. Students who have completed all the requirements for two or more degrees – e.g. BA and BS – must choose which degree to take, unless they have completed 43 or more additional credits beyond the greater of the two program credit requirements, in which case they may receive two degrees and two diplomas.

Drop/Add

During the first five (5) class days of a semester, students are given the option of dropping or adding courses by using their pin number and going online through MyNOVA, or by completion of a paper form available in the Office for Undergraduate Students without incurring academic penalty or affecting the student's official transcript. After this period, students may withdrawal (WX) from courses but may not add a course.

Dual Degree Policy

Normally, a student may receive only one degree, regardless of how many majors the student earns. Students who have completed all the requirements for two or more degrees – e.g., B.B.A. and B.S.A, or B.B.A. and B.A, or B.A. and B.S.. – must choose which degree to take – unless they have completed 43 or more additional credits beyond the greater of the two program credit requirements, in which case they may receive two degrees and two diplomas. Multiple majors, regardless of college, will appear on a student's transcript.

Fast Forward Courses

Transfer Credit will not be awarded for Accelerated or Fast Forward courses. In order for a non-professional three-credit course to be considered for transfer credit, the course must have met on at least 15 different days and with a minimum total meeting time of at least 37 hours.

For courses in question, the student must provide documentation stating the manner in which the course was taught along with the official transcript. Courses in professional studies will be evaluated on a case- by-case basis. The College reserves the right to test students to assess course outcomes.

Grade Definitions and Values

A (4.00), A- (3.67)

The highest academic grade possible; an honor grade which is not automatically given to a student who ranks highest in the course, but is reserved for accomplishment that is truly distinctive and demonstrably outstanding. It represents a superior mastery of course material and is a grade that demands a very high degree of understanding as well as originality or creativity as appropriate to the nature of the course. The grade indicated that the student works independently with unusual effectiveness and often takes the initiative in seeking new knowledge outside the formal confines of the course.

B+ (3.33), B (3.00), B- (2.67)

A grade that denotes achievement considerably above acceptable standards. Good mastery of course materials evident and student performance demonstrates a high degree of originality, creativity, or both. The grade indicates that the student works well independently and often demonstrates initiative. Analysis, synthesis, and critical expression, oral or written, are considerably above average.

C+ (2.33), C (2.00), C- (1.67)

Indicates a satisfactory degree of attainment and is the acceptable standard for graduation from college. It is the grade that may be expected of a student of average ability who gives to the work a reasonable amount of time and effort. This grade implies familiarity with the content of the course and acceptable mastery of course material; it implies that the student displays some evidence of originality and/or creativity, and works independently at an acceptable level and completes all requirements.

D+, (1.33), D (1.00), D- (0.67)

Denotes a limited understanding of the subject matter, meeting only the minimum requirement for passing the course. It signifies work which in quality and/or quantity falls below the average acceptable standard for passing the course. Performance is deficient in analysis, synthesis, and critical expression; there is little evidence of originality, creativity, or both. Note: D- is the lowest passing grade awarded.

F (0.00)

Indicates inadequate or unsatisfactory attainment, serious deficiency in understanding of course material, and/or failure to complete requirements of the course.

N Incomplete: Course work not completed.

S Satisfactory: Assigned in Satisfactory/Unsatisfactory courses.

SP Satisfactory: Progress (for use at Mid-Term Only)

U Unsatisfactory: Assigned in Satisfactory/Unsatisfactory courses.

WX: Approved withdrawal without penalty.

W: Approved withdrawal with penalty.

AU: Audit.

Y: Unofficial withdrawal from course (or for freshmen, failure for excessive absences)

NG (Or Blank): no grade reported. All grades are permanent except for N and NG, which are temporary grades and must be replaced with grades submitted by the instructor. If a change is not submitted, the N or NG automatically becomes an NF. Students must submit all work to instructors by the last Friday in January (Fall semester) or June (Spring semester). Instructors must submit replacement grades by the second Friday in February (Fall semester) or July (Spring semester).

View the full policy and grading information on [the Office of the Registrar's website here](#).

Grade Point Average (GPA)

In addition to passing all required courses, a cumulative grade point average (GPA) of at least 2.0 is necessary for graduation. For science students, a Technical GPA of at least 2.0 is also required. For Arts students, some majors may also require a minimum GPA for all courses that

are used to meet the major requirements. Grades for all courses taken at Villanova University (expect S/U grades and WXs) are calculated in the GPA. If a course is repeated, then both grades are included in the computation. If a transfer course is accepted to fulfill a requirement for a failed Villanova University course, then the failed Villanova course is still included in the GPA computation. The grade point average is determined by taking the number of credits for each course times the quality points earned and dividing the total quality points by the total credit hours attempted. For more information on grade point average, [view the Office of the Registrar's policy here](#).

Example of GPA Calculation

GPA= Total Quality Points /Total Attempted Credits

	Course Grade	Credits	Quality Points
Course #1	B	3	9.00
Course #2	C	3	6.00
Course #3	C	3	6.00
Course #4	C	3	6.00
Course #5	F	3	0.00

Total Attempted Credits: 15 Total Earned Credits: 12
Total Quality Points: 27

GPA = 27/15= 1.80

Grade Reports

Grade reports are computed at the middle and end of each semester. However, only the grade report at the end of the semester is part of the student's permanent record. These reports are available to students online through their MyNOVA account. Students are directed to [the University Catalog](#) for a complete description of the University Grading System. Any inaccuracy in this record must be reported to the Office of the Registrar within two weeks of its receipt; otherwise, the grade will stand as it is.

Graduation Honors

Graduation honors will be noted on the degrees of graduating students meeting the following requirements:

1. Summa cum laude.....minimum cumulative GPA of 3.90

2. Magna cum laude.....minimum cumulative GPA of 3.75
3. Cum laude.....minimum cumulative GPA of 3.50

Grade Extensions on Incomplete Grades

Students who have taken an incomplete (i.e., "N") grade and need additional time to complete the work due to further extenuating circumstances must first gain the professor's approval. If the professor grants the request, the student and professor must agree upon a completion date for the work, complete a "Request for Grade Extension on an Incomplete Grade" form, and submit it to the Office for Undergraduate Students for the Assistant Dean's approval prior to the initial deadline for the submission of incomplete work, which is posted on the online academic calendar. Students may only extend the deadline for courses in which an incomplete was taken once with the Assistant Dean's approval. Students may be required to submit supporting documentation.

The remaining coursework must be completed and submitted by the established deadline or the grade will convert to an "NF" grade, which is calculated as an F in the student's GPA. No further grade extensions are possible. Any discrepancies for an Incomplete N grade must be resolved before the completion of the following semester.

Students requesting an extension can complete the "Request for a Grade Extension on an Incomplete Grade" form available on MyNova.

Incomplete Grades for Undergraduate Students

Incomplete grades are deficient grades. Requests for an incomplete are considered for extenuating circumstances only (documented illness, family emergencies, etc.). Instructors do not have to grant a student's request for an incomplete grade. Students who request an "N" grade must have completed the majority of their work and must confer with faculty to determine: 1) if and how course goals can be met, and a timeline for

completing outstanding requirements. Incomplete grades might have an impact on a student's financial aid, so students should consult with their financial aid counselor as needed. Undergraduate students who have two or more incomplete grades at the end of a semester will be reviewed by the Academic Standing Committee. Students who have multiple incomplete grades over the course of an academic year may be placed on academic probation for failure to make satisfactory academic progress.

Laboratory Science Accommodation for Student with Disabilities

Villanova University recognizes its responsibility to provide alternatives to the laboratory experience for those students who have documented physical disabilities and are unable to perform laboratory work. Mendel Science Experience courses are a part of the Core Curriculum in the College of Liberal Arts and Sciences, and each of these courses is coordinated lecture/laboratory. In the event that a student has a proven disability, verified by a physician, the student should meet with the course professor at the start of the semester to discuss alternative to the co-requisite laboratory. In lieu of a laboratory, an appropriate alternative experience may be obtained by performing library research on a specific topic agreed upon by the student and the professor – one relevant to the course material and equivalent in rigor to a three hour laboratory.

The student and faculty member should fill out a form designating, the topic to be researched, the expectations of the faculty member in terms of coverage, rigor, and due date. Both the faculty member and student should sign and date the form prior to sending it to Dr. Crystal Lucky, Associate Dean for Baccalaureate Studies, SAC 105.

Mathematics Placement

The Core Curriculum requirement for all students in the College of Liberal Arts and Sciences is one course. Science majors and some others are

required to take a two-semester sequence or more. Incoming students in the College of Liberal Arts and Sciences will normally take a Math or Statistics course in either the fall or spring semester of their first year. A student's potential choice of major and career plan affects his or her choice of Mathematics courses.

Medallion of Excellence

Each department in the College of Liberal Arts and Sciences may nominate one graduating senior each year to receive a Medallion of Excellence. Generally, to be eligible for nomination, students must have earned a minimum of three fourths of their degree at Villanova in the College of Liberal Arts and Sciences and must have a minimum cumulative GPA of 3.50.

Each department has named its medallion either for a luminary from the past who has deeply affected the discipline or an outstanding person who helped to shape the course of study at Villanova University.

Medical Leave of Absence

A student may experience physical or psychological conditions that significantly impair the student's ability to function successfully or safely in his or her role as a student. In such cases, the student may decide that time away from the University for treatment and recovery can help restore functioning to a level that will enable the student to return to the University and perform successfully in and out of the classroom. Students interested in pursuing a Medical Leave of Absence should contact the Office for Undergraduate Students to review the process and make an appointment with Ms. Charisma Presley, Director of Retention and Student Success.

Overload Policy

The normal course load each semester for full-time students is five courses of three credits or more (excluding labs and other 1-credit courses). The credit limit set by the Registrar during the pre-registration period is 17-credit hours for Arts students and 19-credit hours for Science

students. In order to be granted permission for an overload, a student must have a cumulative grade point average of at least 3.0 (2.75 for the summer), or have achieved senior status and need a sixth course to fulfill graduation requirements.

After all students have had the opportunity to register for five courses, credit limits will be raised by the Registrar for students with a GPA of 3.0 or higher and for seniors in order to allow them to register for a sixth course through MyNOVA using their semester PIN. In no case will permission be granted for a student to take 7 courses or more than 21 credits.

Students with a GPA lower than 3.0 that need to enroll in more than 17 credits a semester to achieve the normal course load for full time students of five courses will need to have their credit limit raised prior to the registration period. Students with this circumstance should complete a "Request for Credit Increase" form available on MyNova.

Phi Beta Kappa (ΦBK)

Phi Beta Kappa (FBK) is a National Honors Fraternity for Colleges of Liberal Arts and Sciences. It was founded at the College of William and Mary in 1776. Since that time, its rigorous and comprehensive standards have made election to it a premier sign of excellence. The Sigma of Pennsylvania Chapter of Phi Beta Kappa was founded at Villanova University in April 1986.

Phi Beta Kappa standards reflect the highest ideals of liberal arts education at Villanova: education that is concerned with values and facts, as well as wisdom and knowledge; education that seeks freedom from ignorance, alienation, and inhumanity; education that values intellectual integrity and tolerance over expediency, and breadth of scholarly achievement over specialized expertise.

Juniors and seniors who are candidates for a degree in the College of Liberal Arts and Sciences, whose academic achievements reflect the goals of Phi Beta Kappa, and who meet the following specific criteria shall be eligible for consideration for election to Phi Beta Kappa.

1. Candidates must have a GPA of at least 3.50 (3.80 to be elected as a junior).
2. At least three-fourths of a candidate's academic work must have been taken in the liberal arts and sciences, as distinct from applied or professional work.

The Chapter chooses candidates with evidence of academic achievement that is of exceptional distinction and gives weight to the breadth and the quality of the overall program of courses taken by each candidate.

Election to membership in Phi Beta Kappa is wholly within the discretion of the members of the Chapter, subject only to the limitations imposed by its Constitution and By-Laws. Fulfillment of the minimum qualifications does not assure election to membership.

President
Peter Muller

Vice President
Noël Dolan

Secretary
Douglas Norton

Treasurer
Carey Walsh

Historian
Elizabeth Pantesco

Refunds/Tuition Reversal

Refunds as a result of official withdrawal will be made according to the schedule [posted here by the Bursar's office](#). Excluded from the refund calculation will be the costs related to on-campus housing and university meal plans. Activity, library, and medical fees are not refundable. There will be no refund for unauthorized withdrawals. Students who do not register or who notify the Registrar's Office prior to the first day of class that they will not enroll are entitled to a full refund. Students should consult the [full policy on the Bursar's website here](#).

Removal of AP Course Credit

Students requesting to remove credit for AP courses should complete the "Request to Remove AP Credit" form available on MyNova to remove credit previously earned through an advanced placement test and submitted to Villanova University. Submitting this request finalizes the removal of the credits from your transcript which cannot be reversed.

Repeat Course Request

Students may repeat courses subject to the following criteria:

- Students must complete the "Request to Repeat a Course" form available on MyNova.
- Both attempts will appear on the student's transcript, and both grades will factor into the GPA, but the course will only count for credit once towards graduation requirements.
- Completed courses may only be repeated once. No course may be taken a third time.

Required Units for Admission

Although individual consideration is given to each applicant, it is expected that all applicants, except in the most unusual circumstances, will minimally satisfy the unit requirements listed below. A unit represents a year's work.

For Arts Curricula:

English	4	Mathematics	3
Foreign Language	2	Science	1
History or Social Science	2	Electives	3

For Science and Mathematics Curricula:

English	4	Foreign Language	2
Chemistry	1	Physics	1
Mathematics	4	Electives	4

Satisfactory/Unsatisfactory Grades

Grades of Satisfactory (equivalent to a "C" or better) and Unsatisfactory (equivalent to a "C-" or worse) are shown on the transcript but not included in the quality point average.

Sophomores, juniors, and seniors may take one elective course a semester on a satisfactory/unsatisfactory basis. The Satisfactory/Unsatisfactory (S/U) option may not be used by students for courses that fulfill core, major, or minor requirements, but individual departments may offer the major seminar on a S/U basis.

Credits for courses with Satisfactory grades are included in credits earned. Students must opt for Satisfactory/Unsatisfactory by the end of the Drop/Add period.

Unsatisfactory grades need not be repeated. Each college may have additional regulations governing the satisfactory/unsatisfactory option, available from the college dean.

Scholastic Load

Undergraduate students in CLAS must enroll in a minimum of 12 credits a semester to be considered full-time for enrollment purposes and to make satisfactory progress. Permission to take fewer than 12 credit hours may be obtained in exceptional circumstances (typically requiring medical documentation) with the approval of the Dean or Dean's designee. Such approval is generally only permitted for one semester and often requires a new graduation timeline. Note: Only full-time students are permitted to live on campus.

SCI Phoenix Policies

WX Policy for SCI Phoenix Program

Given the constraints imposed upon the students, namely that there is not always access to forms in a timely manner, the Assistant Dean will accept written notification from the Director of the SCI Phoenix Program on behalf of the student, that the request to WX has been initiated by the student.

Withdrawal from SCI Phoenix Program

Students who wish to leave and who do not plan to return to the University should request a

Withdrawal. Official withdrawal from the University must be authorized by the Dean of the appropriate college. To affect an official withdrawal from the SCI Phoenix Program, a student should ideally request the withdrawal in writing. The Assistant Dean will also accept written confirmation from the Director of the SCI Phoenix Program that the student has requested the withdrawal.

Summer Enrollment Credit Totals

The maximum number of credits a student can take during summer session I is six credits. The maximum number of credits a student can take during summer session II is six credits. Therefore, we do not recommend any student take more than twelve summer session credits in total. Under very rare circumstances, a student may be approved to take fifteen credits in the summer, for instance, if it is all they need to finish their degree. In these cases, registration cannot exceed 6 credits per session. So, a student would have to take six credits in session I, six in session II, and one in session 3 (which spans the whole summer). Students should expect to have the support of their advisor and will need to seek special approval to register for fifteen summer credits. The request may be denied, depending on course availability or other factors.

Transfer Credit Hours

Transferring Courses from Full-Time Enrollment

Students who wish to receive credit for college courses taken at another institution prior to attending Villanova must present an official transcript, course descriptions, and other documentation as needed to the Office for Undergraduate Students. Transfer credit may be awarded for college-level courses used to meet high school graduation requirements subject to the criteria listed below. Courses will be considered for transfer credit only upon receipt of an official transcript and copies of official course descriptions. It may be necessary to review the course syllabus to determine whether credit may be granted. It is the responsibility of the student to supply all necessary documentation.

Please note the following policies concerning transfer courses:

- There must be an equivalent Villanova course
- The grade earned in the course must be C or higher
- Grades earned in courses taken at other institutions are not factored into a student's Villanova grade point average
- Transfer credits may be used to fulfill no more than half of the courses for each of the following: CLAS degree, major, minor or concentration, and CLAS Core Curriculum
- Students may transfer a maximum of five non-CLAS courses that have equivalents in the other Villanova academic colleges (Business, Engineering, and Nursing). Students who wish to have such courses evaluated for transfer credit must submit course descriptions and/or syllabi to the appropriate college for review
- Courses should be presented for evaluation prior to a student's first semester at Villanova. Courses presented after the student's first year at Villanova will no longer be eligible for credit

College Courses Taken Prior to High School Graduation

College-level work completed prior to high school graduation, including college courses that fulfill high school graduation requirements, must meet the following criteria to be considered for transfer credit:

1. The course must be taught by a member of a college or university faculty for college students and enroll college students
2. If the course is taught on a high school campus, by high school faculty members, and/or the enrolled students are only high school students, then the course is **not eligible** for transfer credit

If the above criteria are met, the student must send the following documents to the Dean of the student's academic college:

1. an official letter from the high school principal, secondary school counselor or other educational professional describing the college-level program of study
2. an official letter from the college/university stating that the courses were taught by members of the regular faculty, open to enrollment by and graded in competition with regularly matriculated undergraduates at the college and a regular part of the normal curriculum published in the college catalog
3. course syllabus
4. an official, seal-bearing transcript from the college/university showing a grade of C or better
5. With respect to courses taught in a distance learning format, and for other requirements, each academic program will review on a case-by-case basis

If the courses taken by high school students do not meet the above criteria, the student may decide to pursue a [Challenge Exam](#) after enrollment at Villanova. Courses available to challenge are at the Department's discretion.

All pre-matriculated credit must be accepted and approved before the completion of two semesters at Villanova.

Enrolling in Courses at Another Institution as a Villanova Student

Once a student has matriculated in a degree program at Villanova University, credit for courses from other universities may only be transferred to Villanova under certain circumstances. Credits must be pre-approved. The following Core Curriculum Courses typically must be taken at VU: ACS 1000/1001, PHI 1000, THL 1000, ETHICS 2050, CORE HISTORY, and CORE WRITING AND LITERATURE SEMINAR.

Students may submit the "Request to Enroll in Courses at Another Institution" online form. Generally, if a course is offered at Villanova in the summer, a student should plan to take it through Villanova. Permission to take it elsewhere needs to be obtained from the department, advisor and

OUS. The Office for Undergraduate Students must receive official transcripts for approved courses taken elsewhere before the completion of two subsequent semesters at Villanova. Credits will not be accepted for courses that take place during terms that do not align with Villanova's academic calendar. Generally, during fall and spring semesters, students are not permitted to be concurrently enrolled at Villanova and another institution.

Transfer Students

External Transfer Students

Students wishing to transfer to the College of Liberal Arts and Sciences after having attended a college or university other than Villanova must submit a formal application to the Office of University Admission. Candidates for transfer admission ordinarily will have completed a minimum of five college courses of three credits or more with a grade of C or better in each course and earned a grade point average (GPA) of at least 3.0. External transfer applicants must indicate if they are applying to another Villanova academic college in addition to the CLAS.

Students who have transferred from another institution to the CLAS are not eligible to transfer internally to any of the other Villanova academic colleges. If you intend to earn a degree from the School of Business, College of Nursing, or College of Engineering, you must apply directly to that college. Transfer applications must be received by March 15. Offers of admission are contingent upon successful completion of the current semester's courses and may be rescinded. Applicants must present appropriate documentation in order to receive credit for courses taken at their previous institution (see above criteria). Students intending to transfer more than fifteen courses must apply to and be accepted into a major prior to enrollment.

Internal Transfer Students

Students who wish to transfer to the CLAS from other Villanova academic colleges CLAS must complete the Application to Enter the College of Liberal Arts and Sciences and must read and sign the CLAS Internal Transfer Policy form. (These forms are available on-line and in the Office for Undergraduate Students.) Applicants will be notified of an admissions decision at the end of the semester during which the application was

submitted. The minimum criterion for admission to the CLAS is a GPA of 2.33 for all Arts courses taken at Villanova.

W Grade

Withdrawal after the official deadline is indicated by a W grade, withdrawal with academic penalty. The grade is calculated as an F in determining the GPA.

WX Grade

The grade WX indicates an authorized withdrawal; the grade is not considered in the calculation of the GPA and tuition will not be refunded. The last day for Authorized Withdrawal Without Academic Penalty (WX grade) is published on the official University calendar and usually occurs after mid-term grades have been submitted and during the academic advising and course selection period for the upcoming semester. Authorization for such withdrawal may be given only by the Assistant Dean for Undergraduate Students during the semester the course is offered.

Y Grade

The grade Y is given when a student unofficially withdraws from a course (usually stops attending class). It is reflected in the grade point average (GPA) as an F. If a course is repeated, then the grades in both courses will be included in the GPA calculation. A first-year student will receive a grade of Y (failure) whenever the number of unexcused absences in a course exceeds twice the number of weekly class meetings for the course.

Academic Programs

College of Liberal Arts and Sciences

Aerospace Studies (Air Force ROTC)

Aerospace Studies Program (Air Force ROTC)

Program offered through St. Joseph's University

About

Villanova students are eligible to participate in the Air Force Reserve Officer Training Corps (AFROTC) through a cross-enrollment agreement with Saint Joseph's University. All Aerospace Studies courses will be held on the Saint Joseph's campus. The AFROTC program enables a college student to earn a commission as a Second Lieutenant in the U. S. Air Force while concurrently satisfying requirements for his/her baccalaureate degree.

Detailed information may be obtained from the Professor of Aerospace Studies, AFROTC Det 750, Saint Joseph's University, Philadelphia, Pennsylvania 19131, (610) 660-3190. Go to <http://www.afrotc.com/> for further details.

Program [Aerospace Studies \(Air Force ROTC\)](#)
Degree Type Program

Africana Studies

Africana Studies Minor

Contact: Olukunle Owolabi, PhD
Director, Africana Studies Program
Location: St. Augustine Center 258

Villanova's Africana Studies Program connects faculty, students, and community members

interested in the academic study of Africa and the African diaspora. With 25 faculty affiliates, about 20 courses offered each semester, a robust calendar of public events, and a major and a minor, the Program has grown significantly since its founding in 1994. Whether the topic is politics in Africa, the literature of the Black diaspora in France, the history of the US civil rights movement, or Black theology, the Africana Studies Program encourages critical thinking, crossing disciplinary boundaries, and connecting academic work with lived reality. The Africana Studies Program pursues knowledge that has often been overlooked or undervalued as we strive to develop deeply inclusive community. Indeed, as an Augustinian Catholic university, Villanova is oriented to its core by the vision of an African diasporic faith leader.

A B.A. in Africana Studies is offered through the G.I.S. program. Information on that major may be found at this location.

Program [Africana Studies](#)

Degree Type Minor

MINOR: Africana Studies (15 credits)

The Africana Studies program consists of 15 credits.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students may combine three 1-credit IGR courses to count as one of the undesignated Africana courses.
- Courses taken as a part of a study abroad program may also be counted toward completion of the requirements.

Course	Title	Credits
AFR 3000	Constructs of Blackness	3
	Africana History or Literature Elective	3
	AFR Elective	9

Africana History or Literature Elective

Elective Credits 3

Choose one course of three or more credits in History (HIS) or English (ENG) with the Africana Studies (AFR) attribute. Other courses may be taken with approval of the program advisor. Below are examples of eligible courses.

Course	Title	Credits
HIS 2291	African Amer His during Slaver	3
HIS 2292	African Amer His since Emancip	3
ENG 4618	Harlem Renaissance	3
ENG 4602	African American Lit Trad 2	3

AFR Elective

Elective Credits 9

Select any three courses of three or more credits with the AFR attribute.

Arab and Islamic Studies

Arab and Islamic Studies Minor (GIS)

Program Director: Dr. Samer Abboud

Office Location: 38A Garey Hall

Telephone: (610) 519-6302

[Website](#)

About

The Arab and Islamic Studies program offers a major and minor within the Department of Global Interdisciplinary Studies (GIS). The major and minor provide an interdisciplinary and comparative approach to deepen students' understandings of the history, politics, culture, religion, and literature of Arab and Islamic societies. The Arab and Islamic Studies major provides outstanding preparation for careers in government, the military, business, and nonprofits, as well as essential training for graduate education. Villanova's Center for Arab

and Islamic Studies, created in 1983, offers not only the AIS major and minor, but a range of programs and events on campus every semester.

A B.A. in Arab and Islamic Studies is offered through the G.I.S. program. Information on that major may be found at this location.

Program Arab and Islamic Studies
Degree Type Minor

MINOR: Arab & Islamic Studies (15 credits)

A minor is open to all students and requires 5 courses and 15 credits.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- The minor requirements can be fulfilled without the need to take Arabic language courses, but Arabic does count toward the minor.
- Courses taken abroad may count toward the minor requirements with pre-approval from the director of the program.
- Certain topics courses listed under departments (ARB, COM, GIS, HIS, HUM, PSC, THL, etc.) with significant content relevant to AIS may qualify as an elective with the permission of the Director of the Arab and Islamic Studies Program

Course	Title	Credits
	AIS Capstone Elective	3
	AIS History, Political Science 6 or Theology Courses	6
	AIS Elective	6

AIS Capstone Elective

Elective Credits 3

One capstone course with an AIS attribute with the approval of the AIS director.

AIS History, Political Science or Theology Courses

Elective Credits 6

Any two of the courses below.

Course	Title	Credits
PSC 2340	Politics of the Arab World	3
THL 5150	Islam:History,Thought,Culture3	3

AIS Elective

Elective Credits 6

Choose any two course of three or more credits with the Arab and Islamic Studies (AIS) attribute.

Art History

Art History Major

Program Director: Timothy McCall, Ph.D.
Office Location: Saint Augustine Center, Room 403
Telephone: (610) 519-3897

About

The Art History Program at Villanova provides students with the knowledge and skills to interpret and critically evaluate art – and its production, reception, and materiality – from the perspectives of different societies across time. We encourage students to investigate art not only as cultural artifacts that record and reflect particular aspects of the human experience, but also as a dynamic force that has shaped complex interactions of social, political, and economic processes both in the past and the present.

In harmony with the university's Augustinian mission and unique identity, the Art History Program emphasizes the benefits of a broader, liberal arts education. More particularly, art history students can expect to leave Villanova as sophisticated viewers and critical consumers of the visual imagery that surrounds us.

Program Art History
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (33 credits)

The Art History major consists of 33 credits.

Course	Title	Credits
AAH 1101	His West Art:Ancient-Med	3
AAH 1102	His West Art:Renaiss - Cont	3
	AAH Pre-1700 Elective	9
	AAH Post-1700 Elective	6
AAH 4010	Theories & Methods of Art Hist	3
	AAH Senior Research Seminar	3
	Non-AAH Elective	3-4
	Upper-Level AAH Elective	3

Core Curriculum Requirements (41 credits)

Art History Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Fine Arts (3 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (48 credits)

Students with a Art History primary major have forty-eight (48) required free elective credits.

Degree Credit Summary

- **Major Credits:** 33 credits
- **Core Credits:** 41 credits
- **Free Electives Credits:** 48 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Art History as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

AAH Pre-1700 Elective

Elective Credits 9

Choose three courses from the following list.

Course	Title	Credits
AAH 2000	Ancient Art	3
AAH 2001	Medieval Art	3
AAH 2002	Early Renaissance Art in Italy	3
AAH 2003	Age of Rembrandt & Bernini	3
AAH 2012	High Renaissance Art in Italy	3
AAH 3007	The Art of Ireland	3
AAH 3009	Topics in Art History	3
HIS 2450	Archeology: Age of Pyramids	3
HIS 2451	Archaeology/Egypt's Golden Age	3

AAH Post-1700 Elective

Elective Credits 6

Choose two courses from the following list:

Course	Title	Credits
AAH 2004	Modern Art	3
AAH 2006	Visual Arts in the US	3
AAH 2009	Contemporary Art	3
AAH 3001	Women in Art	3
AAH 3002	Art of Philadelphia	3
AAH 3003	Romantic to Post-Impress	3
AAH 3004	Art and Activism	3
AAH 3005	Gender Sexuality Visl Culture3	3
AAH 3006	History of Photography	3
AAH 3011	History of the Art Market	3

AAH Senior Research Seminar

Elective Credits 3

Choose a Senior Research Seminar option from those listed:

Course	Title	Credits
AAH 5010	Senior Research Seminar	3
AAH 5515	Independent Research	3

Non-AAH Elective

Elective Credits 3-4

From the following list, choose one course related to art history in another discipline; or:

- A team-taught interdisciplinary course with one Art History faculty member (GIS, History, etc.)
- Occasionally courses offered in various departments meet this requirement at the discretion of the Program Director.
- This list also includes PHI 2750.

Course	Title	Credits
CLA 2051	Cities of Ancient Greece	3
CLA 2052	Rome: The Ancient City	3
COM 1300	Film Analysis	3
COM 3340	Film History	3
COM 3341	Gender and Film	3
COM 3243	Performance Art	3
COM 3342	International Cinema	3
COM 3343	Contemporary Cinema	3
ENG 2350	Narrative Television	3
ENG 2360	Adaptation:Film as Literature	3
FFS 2075	Introduction to French Cinema	3
FFS 2076	Intro To Francophone Cinema	3
HUM 3600	Amer Architecture since 1865	3
MSE 2303	CHM:The Science of Art	4
PHI 4150	Philosophy & Film	3
SAR 2010	Intro to Calligraphy	3
SAR 2020	Basic Watercolor Techniques	3
SAR 2021	Basic Drawing Techniques	3
SAR 2022	Basic Oil Painting	3
SAR 3031	Special Topics in Studio Art	3
SAR 4007	Painting of Icons	3
SAR 5004	Basic Printmaking	3

Upper-Level AAH Elective

Elective Credits 3

Choose an upper-level Art History course from AAH 2000 to AAH 4999.

Art History Minor

Program Director: Timothy McCall, Ph.D.
Office Location: Saint Augustine Center, Room 403
Telephone: (610) 519-3897

The Art History Program at Villanova provides students with the knowledge and skills to interpret and critically evaluate art – and its production, reception, and materiality – from the perspectives of different societies across time. We encourage students to investigate art not only as cultural artifacts that record and reflect particular aspects of the human experience, but

also as a dynamic force that has shaped complex interactions of social, political, and economic processes both in the past and the present.

In harmony with the university's Augustinian mission and unique identity, the Art History Program emphasizes the benefits of a broader, liberal arts education. More particularly, art history students can expect to leave Villanova as sophisticated viewers and critical consumers of the visual imagery that surrounds us.

Program [Art History](#)
Degree Type Minor

Minor: Art History (18 credits)

The Art History Minor consists of 18 credits and 6 courses.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- One of the art history courses could be substituted for one course related to art history in another discipline from the following list: ENG 2350, 2360, CLA 2051, 2052, COM 1300, COM 3340, 3341, 3342, 3343, FFS 2075, 2076, HIS 2309, HUM 3600, ITA 4075, MSE 2303, PHI 2750, 4150, SAR 2010, 2020, 2021, 2022, 2023, 2150, 2151, 3031, 4007, 5004.
- Art history minors are encouraged to take AAH 4010 in the fall of their senior year. With approval from the program director, students may satisfy this requirement with another upper-level course.

Course	Title	Credits
	AAH 1101 or AAH 1102	3
AAH 4010	Theories & Methods of Art Hist	3
	Art History Minor Elective	12

AAH 1101 or AAH 1102

Elective Credits 3

Course	Title	Credits
AAH 1101	His West Art: Ancient-Med	3
AAH 1102	His West Art: Renaiss - Cont	3

Art History Minor Elective

Elective Credits 12

Select 4 courses of 3 or more credits in with the AAH subject code.

Asian Studies

Asian Studies Minor

Program Director: Nathan Badenoch, Ph.D.
Office Location: Gary Hall 34A
Telephone: (610) 519-6996
[Website](#)

About

Asia is a dynamic world region and its cultures and societies are a complex mix of both ancient traditions and modern ideas. Asia has the fastest growing economy in the world and is the birthplace of many of our new technologies. Asia is rapidly changing, democratizing, and internationalizing in ways that present both perils and possibilities for people across the globe.

In the Villanova Asian Studies Program, we offer a Major in Asian Studies as Global Interdisciplinary Studies specialization as a way for undergraduates to learn to examine the world — and themselves — through the lens of another language and culture.

The Asian Studies program offers a major and minor within the Department of Global Interdisciplinary Studies (GIS) that helps students understand the diverse histories, politics, economies, cultures, religions, arts and literatures of Asia. The program encourages in-depth study while also promoting more general inquiry into fundamental issues, such as cultural differences among Asian nations and their social and political implications, as well as learning critical thinking and problem solving to prepare students to be responsible global citizens. The program offers them not only specialized knowledge and appreciation of a region that has had, and will undoubtedly continue to have, a profound impact on the material and spiritual well-being of humanity, but also prepares them to play their own roles in a globalized world in the “Asian Century.”

Program [Asian Studies](#)
Degree Type Minor

Minor: Asian Studies (15 credits or 5 courses)

Program Notes

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Up to two Asian language courses at any level may count.
- Courses with the AS attribute may count towards the minor.
- The courses must cover at least 2 countries or areas, and no more than 3 may focus on a single country. For example, if a student takes two Japanese-language courses, then only one Japanese-culture course may count; the other two courses must focus on cultures other than Japanese.
- Courses taken as part of a Study Abroad program and one internship done abroad may count towards the minor.

Course	Title	Credits
	3 Asian Cultural Elective Courses	9
	2 Asian Cultural Elective or Asian Language Courses	6

3 Asian Cultural Elective Courses

Elective Credits 9

3 Asian cultural elective courses with the AS attribute.

2 Asian Cultural Elective or Asian Language Courses

Elective Credits 6

2 Asian cultural elective courses with the AS attribute **OR** 2 Asian language elective courses at any level.

Astrophysics and Planetary Science

Astronomy & Astrophysics Major

Chair: Edward L. Fitzpatrick, Ph.D.
Office Location: 456A Mendel Science Center
Telephone: (610) 519-4820
[Website](#)

About

The APS Department offers a major in Astronomy & Astrophysics, leading to a Bachelor of Science degree. The major combines rigorous academic preparation with a strong research component, which usually culminates in the presentation of original research results at national astronomical conferences. The program is designed to prepare students for graduate studies in astronomy and related fields. In addition, and due to the strong and balanced Liberal Arts education, the Astronomy & Astrophysics major provides outstanding preparation for careers in science journalism and science education, as well as for essentially any technically based career. The department also offers a minor in Astronomy & Astrophysics.

Research facilities utilized by staff and students in the APS Department include a high-speed computing facility and a suite of computer-controlled telescopes located on the roof of Mendel Science Center. In addition, the Department is a member of the Robotically Controlled Telescope consortium, which operates a 1.3 meter telescope located at Kitt Peak National Observatory. Students also have access, via faculty research programs, to state-of-the-art astronomical data from NASA-supported facilities such as the Hubble Space Telescope and the Spitzer Space Telescope, and a variety of national and international ground-based facilities.

Program [Astrophysics and Planetary Science](#)
Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Required Major Courses (89 credits)

The major consists of 89 credits, including courses in astronomy, physics, mathematics, and computer science. Students completing the major will also qualify for a minor in physics.

Course	Title	Credits
AST 2000	Introduction to VU Astronomy	1
AST 2120	Sun and Stars	3
AST 2121	Solar System Astronomy	3
AST 2122	Understanding Our Universe	3
AST 2123	Astroynamics:Kepler & Beyond	3
AST 2133	Observational Lab I	2
AST 2134	Observational Lab II	2
AST 3141	Galactic Astronomy	3
AST 3142	Intro to Astrophysics	3
AST 3143	Astrobiology, Planets, & Life	3
AST 3148	The Prncpl of Scientific Model	3
AST 4121	Undergrad Research I	3
AST 4122	Undergrad Research II	3
CSC 4630	Software Dev and Systems	3
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
MAT 2500	Calculus III	4
MAT 2705	Diff Equation with Linear Alg	4
PHY 2420	Matter and Interactions I	3
PHY 2421	Lab: Matter and Interactions I	1
PHY 2422	Matter and Interactions II	3
PHY 2423	Lab:Matter and Interactions II	1
PHY 3200	Thermo, Optics and Waves	3
PHY 3400	Modern Physics	3
PHY 4801	Experimental Physics I	2
PHY 2601	Computational Phy Lab I	2
PHY 2603	Computational Phy Lab II	2
PHY 4100	Mechanics I	3
PHY 4200	Mathematical Physics I	3
	Upper-Level Physics Elective	9

Core Curriculum Requirements (33 credits)

Astronomy & Astrophysics Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (0 credit)

Students with an Astronomy & Astrophysics primary major have zero (0) required free elective credits.

Degree Credit Summary

- **Major Credits:** 89 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 0 credit
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Astronomy & Astrophysics as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Upper-Level Physics Elective

Elective Credits 9

Select 3 Classes of three or more credits in PHY 3000:9999.

Astronomy & Astrophysics Minor

Chair: Edward L. Fitzpatrick, Ph.D.
Office Location: 456A Mendel Science Center
Telephone: (610) 5019-4820
[Website](#)

About

The APS Department offers a major in Astronomy & Astrophysics, leading to a Bachelor of Science degree. The major combines rigorous academic preparation with a strong research component, which usually culminates in the presentation of original research results at national astronomical conferences. The program is designed to prepare students for graduate studies in astronomy and related fields. In addition, and due to the strong and balanced Liberal Arts education, the Astronomy & Astrophysics major provides outstanding preparation for careers in science journalism and science education, as well as for essentially any technically based career. The department also offers a minor in Astronomy & Astrophysics.

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via faculty research programs, to state of-the-art astronomical data from NASA-supported facilities such as the Hubble Space Telescope and the Spitzer Space Telescope, and a variety of national and international ground-based facilities.

Program [Astrophysics and Planetary Science](#)
Degree Type Minor

MINOR: Astronomy & Astrophysics (25 credits)

A minor is open to all students and requires 9 courses and a minimum of 25 credits.

Required Minor Courses

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students may fulfill the Calculus requirement (normally MAT 1500 and 1505) with any Calculus I & II courses offered within the University.

Course	Title	Credits
AST 2120	Sun and Stars	3
AST 2121	Solar System Astronomy	3
AST 2122	Understanding Our Universe	3
	MAT 1320 or MAT 1500	3
	MAT 1325 or MAT 1505	3
	Astrophysics PHY Electives	6
	Astrophysics Elective	6

MAT 1320 or MAT 1500

Elective Credits 3

Course	Title	Credits
MAT 1320	Calculus I for Liberal Arts	3
MAT 1500	Calculus I	4

MAT 1325 or MAT 1505

Elective Credits 3

Course	Title	Credits
MAT 1505	Calculus II	4

Astrophysics PHY Electives

Elective Credits 6

Select one two-course sequence for six credits, or 2 Classes in PHY 2410 and higher.

Course	Title	Credits
PHY 1100	General Physics I	3
PHY 1102	General Physics II	3
Course	Title	Credits
PHY 2400	Physics I Mechanics	3
PHY 2402	Physics II Elec & Magnet	3

Astrophysics Elective

Elective Credits 6

Choose two courses from the following list:

Course	Title	Credits
AST 2123	Astroynamics:Kepler & Beyond	3
AST 3141	Galactic Astronomy	3
AST 3142	Intro to Astrophysics	3
AST 3143	Astrobiology, Planets, & Life	3
AST 3148	The Prncpl of Scientific Model	3

Biochemistry

The biochemistry program is designed for students who are interested in life at the molecular level. In our program, you will study the chemical processes involved in DNA replication, transcription, and translation. The structure of biomacromolecules and the structural implications on cellular processes will also be emphasized.

Most of the biochemistry faculty use their biochemistry training to understand disease at the molecular level, including breast cancer, lung cancer, African sleeping sickness, and pain management. Biochemistry also supports the studies of students majoring in the chemistry and life-sciences by offering introductory courses for students interested in medicine or the allied health fields.

Biochemistry Major

Program Directors: Jennifer Palenchar, PhD.,
James W. Wilson, PhD
Office Location: Mendel Science Center Rm. 215
Telephone: (610) 519-4840
[\[Website\]](#)

About

Biochemistry is an interdisciplinary program requiring comprehensive coursework in both Biology and Chemistry. The biological relevance of chemical concepts is stressed throughout the curriculum. Students are encouraged to pursue one of the many available research experiences.

Program [Biochemistry](#)
Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Students are accepted into the major as incoming freshmen, or upon consultation with a program director.

Required Major Courses (69 credits)

Program Notes:

- Students may substitute the sequence of MAT 1500 and MAT 1505 for MAT 1312 and STAT 1313 with permission from the program directors.
- The Biochemistry program offers three mechanisms for participation in research by undergraduate majors. Competitive fellowships for 8-10 weeks of summer research are funded by University, government, or industrial sources. Recipients of these fellowships carry out a research program under the direction of a faculty member. Students may also enroll in research mentored by a faculty member for academic credit during the school year, which fulfills the elective requirement in the relevant department (CHM 4801, 4802, 4803, 4851, 4851 or BIO 6509, 6609). Students may also volunteer in research laboratories. In each case, students should discuss participation in research with Program of Biochemistry faculty members. **A student must find a faculty mentor prior to enrolling in these courses.**

Course	Title	Credits
CHM 1000	Profesl Development Sem	1
	CHM 1151 or CHM 1611	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
	CHM 2201/2211 or CHM 3201/3211	4
	CHM 2202/2212 or CHM 3202/3212	4
CHM 3417	Biophysical Chemistry	3
CHM 3514	Bioanalytical Chemistry	3
CHM 3503	Bioanalytical Chem Lab	1
CHM 4603	Biochem Tech. and Pract.	1
CHM 4604	Biochem Tech. and Pract II	1
CHM 4621	Biochemistry I: Structure	3
CHM 4622	Biochemistry II:Metabolism	3
CHM 4623	Biochemistry III	3
BIO 2105	General Biology I	4

BIO 3351	Genetics	4
BIO 4505	Molecular Biology	4
	Calculus I or Biocalculus	4
	Calculus II or Statistics for Life Sciences	3-4
	PHY 2410/2411 or PHY 1100/ 1101	4
	PHY 2412/2413 or PHY 1102/ 1103	4
	Approved Chemistry Elective	3
	Approved Biology Elective	2-3

Core Curriculum Requirements (33 credits)

Biochemistry Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (20 credits)

Students with a Biochemistry primary major have twenty (20) required free elective credits.

Degree Credit Summary

- **Major Credits:** 69 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 20 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare biochemistry as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

CHM 1151 or CHM 1611

Elective Credits 4

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1611	Gen'l Chem I for BIOC Majors4	

CHM 2201/2211 or CHM 3201/3211

Elective Credits 4

Choose one sequence.

- Typically Biochemistry students will take CHM 2201/2211. CHM 3201/3211 are restricted to Chemistry majors.

Course	Title	Credits
CHM 2201	Organic Chemistry Lab I	1
CHM 2211	Organic Chemistry I	3
Course	Title	Credits
CHM 3201	Organic Chemistry Lab I	2
CHM 3211	Organic Chemistry I	3

CHM 2202/2212 or CHM 3202/3212

Elective Credits 4

Choose one sequence.

- Typically Biochemistry students will take CHM 2202/2212. CHM 3202/3212 are restricted to Chemistry majors.

Course	Title	Credits
CHM 2202	Organic Chemistry Lab II	1
CHM 2212	Organic Chemistry II	3
Course	Title	Credits
CHM 3202	Organic Chemistry Lab II	2
CHM 3212	Organic Chemistry II	3

Calculus I or Biocalculus

Elective Credits 4

Students may substitute the sequence of MAT 1500 and MAT 1505 for MAT 1312 and STAT 1313 with permission from the program directors.

Course	Title	Credits
MAT 1500	Calculus I	4
MAT 1312	Biocalculus	4

Calculus II or Statistics for Life Sciences

Elective Credits 3-4

Students may substitute the sequence of MAT 1500 and MAT 1505 for MAT 1312 and STAT 1313 with permission from the program directors.

Course	Title	Credits
MAT 1505	Calculus II	4
STAT 1313	Statistics for Life Sciences	3

PHY 2410/2411 or PHY 1100/1101

Elective Credits 4

Choose 1 pair of lecture + lab courses from the following:

Course	Title	Credits
PHY 2410	University Phy:Mechanics	3
PHY 2411	Lab: Mechanics	1
Course	Title	Credits
PHY 1100	General Physics I	3
PHY 1101	General Physics I Lab	1

PHY 2412/2413 or PHY 1102/1103

Elective Credits 4

Choose 1 pair of lecture + lab courses from the following:

Course	Title	Credits
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2413	Lab:Elec & Magnetism	1
Course	Title	Credits
PHY 1102	General Physics II	3
PHY 1103	General Physics II Lab	1

Approved Chemistry Elective

Elective Credits 3

Chemistry Elective (3000 level or above) (3 cr) -
Select 1 course of three or more credits from
CHM 3000:9999.

Approved Biology Elective

Elective Credits 2-3

Biology Elective (3000 level or above) (3 cr) -
Select 1 course of three or more credits from BIO
3000:9999 or BIO 6509 (2 cr).

Biochemistry Minor

Program Directors: Jennifer Palenchar, PhD.,
James W. Wilson PhD
Office Location: Mendel Science Center Rm. 215
Telephone: (610) 519-4840
[\[Website\]](#)

About

Biochemistry is an interdisciplinary program requiring comprehensive coursework in both Biology and Chemistry. The biological relevance of chemical concepts is stressed throughout the curriculum. Students are encouraged to pursue one of the many available research experiences.

Program [Biochemistry](#)
Degree Type Minor

MINOR: Biochemistry (22 credits)

The Biochemistry minor requires 22 credits not including pre-requisite coursework.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- The Biochemistry program offers three mechanisms for participation in research by undergraduate majors. Competitive fellowships for 8-10 weeks of summer research are funded by University, government, or industrial sources. Recipients of these fellowships carry out a research program under the direction of a faculty member. Students may also enroll in research mentored by a faculty member for academic credit during the school year, which fulfills the elective requirement in the relevant department (CHM 4801, 4802, 4803, 4851, 4851 or BIO 6509, 6609). Students may also volunteer in research laboratories. In each case, students should discuss participation in research with Program of Biochemistry faculty members.
- Chemistry courses listed below for the minor may have additional pre-requisite not listed on this page.

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 3351	Genetics	4
BIO 4505	Molecular Biology	4
CHM 4603	Biochem Tech. and Pract.	1
CHM 4621	Biochemistry I: Structure	3
CHM 4622	Biochemistry II:Metabolism	3
CHM 4623	Biochemistry III	3

Biology

Biology BA

Chair: Dennis D. Wykoff, Ph.D.
Assistant Chair: Vik Iyengar, Ph.D
Office Location: 147 Mendel Science Center
Telephone: 610-519-4830
[Website](#)

About

Biology is a broad-based program designed for students interested in life sciences. The program fulfills entry requirements for medical and other allied health programs as well as for graduate work in many areas of biology and related fields. The program also provides excellent preparation for careers in health sciences, research, and/or education.

Program [Biology](#)

Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Required Major Courses (50 credits)

The Biology BA major requires a minimum of 50 credits in biology and cognate courses with at least four biology laboratory courses at the 3000-level and higher.

Program Notes:

- Research opportunities: Undergraduate majors may opt to work with faculty to complete undergraduate research either informally or more formally in a senior or honors thesis project. This work counts as BIO elective credit towards the major.

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
BIO 3351	Genetics	4
	Biology Capstone for BA	3
	Upper-Level BIO Lab	16
	Electives for BA	
	Additional BIO Electives for BA	6

Required Cognate Courses:

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
	Biology Math Elective for BA	3

Core Curriculum Requirements (33 credits)

Biology Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (39 credits)

Students with a Biology BA primary major have thirty-nine (39) required free elective credits.

Degree Credit Summary

- **Major Credits:** 50 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 39 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Biology BA as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Biology Capstone for BA

Elective Credits 3

Three additional credits fulfilled through Capstone experience. Select from BIO 5300, 5100, 6709, HON 6002. Students who take HON 6002 are also required to take BIO 5100.

Course	Title	Credits
BIO 5300	Biology Capstone	3
BIO 5100	Senior Seminar	1
BIO 6709	Thesis Research II	2
HON 6002	Senior Thesis II	3

Upper-Level BIO Lab Electives for BA

Elective Credits 16

Choose 4 additional BIO laboratory courses at or above the 3000 level*.

- Select from: BIO 2996:9999 (with the exception of BIO 6509-6511), CHM 4603 + 4621, GEV 4700, HON 5000, 6000.
- For instances where the lecture and lab are two separate courses, students must take both simultaneously.

*BIO 2996 is the only acceptable course below the 3000-level.

Additional BIO Electives for BA

Elective Credits 6

Six additional credits fulfilled either through a research experience or another approved course. Select from BIO 2000:9999, CHM 4611; 4622, 4621

Biology Math Elective for BA

Elective Credits 3

Choose one additional MAT course from the following:

Course	Title	Credits
MAT 1312	Biocalculus	4
MAT 1314	Modeling for the Life Sciences	3
MAT 1505	Calculus II	4
STAT 1313	Statistics for Life Sciences	3
STAT 4310	Stat Methods	3

Biology BS

Chair: Dennis D. Wykoff, Ph.D.

Assistant Chair: Vik Iyengar, Ph.D

Office Location: 147 Mendel Science Center

Telephone: 610-519-4830

[Website](#)

About

Biology is a broad-based program designed for students interested in life sciences. The program fulfills entry requirements for medical and other allied health programs as well as for graduate work in many areas of biology and related fields. The program also provides excellent preparation for careers in health sciences, research, and/or education.

Program [Biology](#)

Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Required Major Courses (70 credits)

The biology major requires a minimum of 70 credits in biology and cognate courses with at least five biology laboratory courses at the 3000-level and higher.

Program Notes:

- Combined BS/MS in Biology: Five-year double degree program. See departmental website for details regarding admission, requirements, the program of study, etc.
- Research opportunities: Undergraduate majors may opt to work with faculty to complete undergraduate research either informally or more formally in a senior or honors thesis project. A completed senior thesis satisfies the requirement for a capstone and an upper-level BIO lab elective.

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
BIO 3351	Genetics	4
	Biology Capstone for BS	3
	Upper-Level BIO Lab Elective	20
	Additional BIO Elective	2

Required Cognate Courses:

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
CHM 2211	Organic Chemistry I	3
CHM 2201	Organic Chemistry Lab I	1
CHM 2212	Organic Chemistry II	3
CHM 2202	Organic Chemistry Lab II	1
MAT 1312	Biocalculus	4
	Biology Math Elective	3
PHY 1100	General Physics I	3
PHY 1101	General Physics I Lab	1
PHY 1102	General Physics II	3
PHY 1103	General Physics II Lab	1

Core Curriculum Requirements (33 credits)

Biology Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (19 credits)

Students with a Biology primary major have nineteen (19) required free elective credits.

Degree Credit Summary

- **Major Credits:** 70 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 19 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Biology as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Biology Capstone for BS

Elective Credits 3

Three additional credits fulfilled through Capstone experience. Select from BIO 5300, 5100, 6709, HON 6002. Students who take HON 6002 are also required to take BIO 5100.

Course	Title	Credits
BIO 5300	Biology Capstone	3
BIO 5100	Senior Seminar	1
BIO 6709	Thesis Research II	2
HON 6002	Senior Thesis II	3

Upper-Level BIO Lab Elective

Elective Credits 20

Choose 5 additional BIO laboratory courses at or above the 3000 level*.

- Select from: BIO 2996:9999 (with the exception of BIO 6509-6511), CHM 4603 + 4621, GEV 4700, HON 5000, 6000.
- For instances where the lecture and lab are two separate courses, students must take both simultaneously.

*BIO 2996 is the only acceptable course below the 3000-level.

Additional BIO Elective

Elective Credits 2

Two additional credits fulfilled either through a research experience or another approved course. Select from BIO 2000:9999, CHM 4611; 4622, 4621

Biology Math Elective

Elective Credits 3

Choose one additional MAT course from the following:

Course	Title	Credits
MAT 1314	Modeling for the Life Sciences	3
MAT 1505	Calculus II	4
STAT 1313	Statistics for Life Sciences	3
STAT 4310	Stat Methods	3

Biology Minor

Chair: Dennis D. Wykoff, Ph.D.

Assistant Chair: Vik Iyengar, Ph.D

Office Location: 147 Mendel Science Center

Telephone: 610-519-4830

[Website](#)

About

Biology is a broad-based program designed for students interested in life sciences. The program fulfills entry requirements for medical and other allied health programs as well as for graduate work in many areas of biology and related fields. The program also provides excellent preparation for careers in health sciences, research, and/or education.

Program [Biology](#)

Degree Type Minor

MINOR: Biology (23 credits)

A minor is open to all students and requires a minimum of 23 credits in Biology. Minors must complete at least 12 of their Biology credits at Villanova and achieve a minimum GPA of 2.0.

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Biochemistry majors need to complete 2 BIO courses with labs at the 3000 level or above that are not otherwise required for the biochemistry degree to fulfill the requirements for the Biology minor.

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
	Upper-Level BIO Lab Elective for Minor	12
	Upper-Level BIO Elective	3-4

Upper-Level BIO Lab Elective for Minor

Elective Credits 12

Biology Electives with Lab [3000 level or above] (12 cr) – Select any course from BIO 3000:9999.

Upper-Level BIO Elective

Elective Credits 3-4

Choose 1 additional Biology elective course numbered 3000 or above. (3-4cr)

Business

Business Programs for Non-VSB

Villanova School of Business

Contact: Jarryd Kainz

Office Location: Bartley Hall Rm. 1054 [The Clay Center at VSB]

Telephone: (610) 519-5532

[Website](#)

ABOUT

VSB offers two application-based business minor programs: The Summer Business Institute (SBI) and The Academic Year Business Minor. Students considering either of these programs should meet with their primary academic advisor before applying to determine if/how business minor courses may apply to degree or major requirements. Completion of either program may allow students to pursue a discipline-specific business minor or enroll in other VSB courses; VSB approval is required and additional pre-requisite coursework may be necessary.

SUMMER BUSINESS INSTITUTE (SBI)

The Summer Business Institute (SBI) is a 10 week, full-time, 16-credit program created exclusively for non-business majors. SBI, using a cohort-based model, is an accelerated program designed to be completed in one summer. The admission process for the program is competitive; students are admitted on a rolling basis. The application period is January 15 – April 15. Additional Information, including the application, can be found at business.villanova.edu/sbi

ACADEMIC YEAR BUSINESS MINOR

The Academic Year Business Minor is designed for full-time undergraduates enrolled in other Villanova colleges. This traditional-year program typically requires four semesters to complete; required courses are part of the VSB core curriculum and are taken alongside VSB students. The admission process for the program is competitive*; students must attend an info session prior to applying and are admitted on a yearly basis. Criteria is comparable to those of students accepted as first-year students in VSB. The deadline for applications can be found on the website; program and application requirements can be found at business.villanova.edu, search Business Minors for Non-Business Students.

**There is a great level of demand for a limited number of spaces, please bear this in mind when considering this program.*

VILLANOVA SUMMER BUSINESS ACADEMY CERTIFICATE PROGRAM

VSB's Summer Business Academy (SBA) is a full-time, 4-week, cohort-based summer program created exclusively for non-business students.

The 6-credit certificate program is designed to be completed in one summer and is targeted to students who would benefit from, and have an interest in, a credentialed, on-campus, introductory business education program. Students earn a Business Certificate through a mix of academic courses, including professional development, via experiential and applied learning opportunities.

See the *Villanova Summer Business Academy Certificate Program* page in the VSB catalog for more details.

Program [Business](#)
Degree Type Minor

Center for Irish Studies

Irish Studies Minor

Director: Joseph Lennon, Ph.D.
Office Location: Saint Augustine Center, 105E
Telephone: (610) 519-4647
[\[Website\]](#)

About

Irish Studies explores the history and culture of the Irish people in Ireland and the Irish diaspora from a variety of disciplines—art, economics, folklore, history, language, literature, music, philosophy political science, and theater. Students can major in Irish Studies through the department of Global Interdisciplinary Studies, culminating in a rigorous multidisciplinary thesis. The minor is open to students from all colleges and can be completed by taking five courses, two required and three electives, either on campus and abroad. For students in the College of Arts and Science, two four-credit courses in the Irish language may be taken to complete the College language requirement.

The Center works with local organizations and hosts a lively series of readings, academic lectures, performances, and receptions, also welcoming cultural, political, and business leaders to campus for networking. Interested students may also study in Ireland in a Semester Abroad program or through the Villanova Summer in Ireland Program or apply for one of several

professional internships abroad or in Philadelphia. Details are available through the Center for Irish Studies.

Program [Center for Irish Studies](#)
Degree Type Minor

MINOR: Irish Studies (15 credits)

A minor is open to all students. Completion of any two Irish Studies courses may allow students to begin the minor.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
	Irish Literature Survey for Minor	3
	HIS 3216 or HIS 2286	3
	IS Elective for the minor	9

Major (31 credits)

The Department of Global Interdisciplinary Studies (GIS) offers a major with a specialization in Irish Studies, please see [that page](#) for detailed requirements of the major.

Irish Literature Survey for Minor

Elective Credits 3

Choose one course from those listed below.

Course	Title	Credits
ENG 3181	Irish Epics, Visions&Hauntings	3
ENG 3617	Irish Revivalism	3
ENG 3680	Top: 20th-21st C Irish Lit&Cul	3
ENG 3682	Contemporary Irish Literature	3

HIS 3216 or HIS 2286

Elective Credits 3

Choose one history survey.

Course	Title	Credits
HIS 2286	Irish-American Saga	3

IS Elective for the minor

Elective Credits 9

Choose three IS courses, or courses with the IS attribute, worth at least three credits each.

Classical Studies

Classical Studies Major

Program Director: Valentina DeNardis, Ph.D.
Office Location: Saint Augustine Center Rm. 304
Telephone: (610) 519-6165
[Website](#)

About

The Classical Studies Program explores the cultures of ancient Greece and Rome, from the beginnings of Greek civilization to the fall of the Roman empire. Our program is interdisciplinary, embracing the study of classical languages, literatures, history, art and archaeology, philosophy and religion. The program offers courses which may satisfy requirements for the Core Curriculum of the College of Liberal Arts and Sciences.

Program [Classical Studies](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (30 credits)

The major requires 10 courses and at least 30 credits.

Required Courses:

- Select one course of three or more credits: GRK 1000:9999 or LAT 1000:9999 (3 cr)
- Select eight courses of three or more credits from among the following: AAH 1101, CLA 1000:9999, GRK 1000:9999, LAT 1000:9999, or any course with the CLST attribute (24 cr)
- CLA 6001: Senior Classics Capstone (3 cr)

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (48 credits)

Students with a Classical Studies primary major have forty-eight (48) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 48 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare classical studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

FIVE YEAR B.A./M.A PROGRAM

The five-year B.A./M.A. program allows exceptional students to complete a bachelor's and a master's degree with a focus in Classical Studies in five years. In the last year of undergraduate study students take three graduate courses that count towards both their undergraduate and graduate degrees.

Classical Studies Minor

Program Director: Valentina DeNardis, Ph.D.
Office Location: Saint Augustine Center Rm. 304
Telephone: (610) 519-6165

[Website](#)

About

The Classical Studies Program explores the cultures of ancient Greece and Rome, from the beginnings of Greek civilization to the fall of the Roman empire. Our program is interdisciplinary, embracing the study of classical languages, literatures, history, art and archaeology, philosophy and religion. The program offers courses which may satisfy requirements for the Core Curriculum of the College of Liberal Arts and Sciences.

Program [Classical Studies](#)

Degree Type Minor

MINOR: Classical Studies (18 credits)

The minor requires a minimum of 18 credits. Language classes are not required.

Required Courses:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Six courses of three or more credits in any combination of courses in the classical languages and/or courses taught in English on classical civilization. (18 cr) This includes:
 - Courses with the Subject codes GRK, LAT, CLA
 - Courses with the CLST attribute

Cognitive Science

Cognitive Science Minor

Program Director: Deena Weisberg, Ph.D.

Office Location: Tolentine Hall Rm 222

Telephone: (610) 519-4744

[Website](#)

About

The Cognitive Science Program offers a course of study in the interdisciplinary field of Cognitive Science, bringing together perspectives from cognitive psychology, computer science, philosophy, and biology to understand how intelligent systems function. An undergraduate concentration and an undergraduate minor are available to all students in undergraduate colleges of the University. The program is particularly well suited to students majoring in Psychology, Computing Sciences, Philosophy, and Cognitive & Behavioral Neuroscience.

Program [Cognitive Science](#)

Degree Type Minor

MINOR: Cognitive Science (15 credits)

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- The five courses used to fulfill the Minor must span at least three different disciplines.
- Choose two courses from the first three listed items. Select three electives from the list. Five courses in total are required to fulfill the minor requirements.
- Special topics, research, and independent study electives (BIO 6509, CBN 2900, CBN 5900, CSC 5930, CSC 5993, PHI 2990, PHI 4990, PSY 2900, PSY 5900) require approval of the Cognitive Science Program.
- For courses that have prerequisites, Cognitive Science students should apply to have the prerequisites waived. Decisions will be made on a case-by-case basis by the course instructor, or in some cases, the Director of the Cognitive Science Program, after considering the particular student's background. In most cases, it is expected that the prerequisites will be able to be waived.
- Students may take CSC 1010 in place of CSC 1051 for the purpose of fulfilling the elective.

Course	Title	Credits
PHI 4610	Philosophy of Mind	3
PSY 4500	Cognitive Psychology	3
	Artificial Intelligence or Machine Learning	3-4
	Cognitive Science Electives	9

Artificial Intelligence or Machine Learning

Elective Credits 3-4

Choose one:

Course	Title	Credits
CSC 4500	Artificial Intelligence	3
CSC 4505	Applied Machine Learning	3
CSC 4510	Machine Learn&Theory&Evolution	3
MSE 2400	CSC:Evol Lrng Cmp Robtcs Agnts	4

Cognitive Science Electives

Elective Credits 9

Choose three Cognitive Science approved electives from the list below, or any courses with the CGS attribute.

- Reminder: the five courses used to fulfill the Minor must span at least three different disciplines.

Biology

Course	Title	Credits
BIO 3011	Animal Behavior Lecture	3
BIO 3015	Animal Behavior	4
BIO 4605	Neurobiology	4
BIO 6509	Directed Research I	2

Cognitive and Behavioral Neuroscience

Course	Title	Credits
CBN 4100	Cognitive Neuroscience	3
CBN 5900	Undergraduate Research in CBN	3

Cognitive Science

Course	Title	Credits
CGS 2000	Linguistics as a Cognitive Sci	3
CGS 4000	Bilingualism	3
CGS 5900	Cognitive Science Seminar	3
CGS 5910	Psychology of Language	3
CGS 5990	Special Topics	3

Computer Science

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4
CSC 4170	Theory of Computation	3
CSC 4500	Artificial Intelligence	3
CSC 4505	Applied Machine Learning	3
CSC 4510	Machine Learn&Theory&Evolution	3
CSC 5930	Topics Computer Science	3
CSC 5993	Independent Study	3
MSE 2400	CSC:Evol Lrng Cmp Robtcs Agnts	4
ECE 2620	C++, Algorithms & Data Struct	4

Philosophy

Course	Title	Credits
PHI 2020	Symbolic Logic	3
PHI 2990	Topics in Philosophy	3
PHI 4610	Philosophy of Mind	3
PHI 4990	Independent Study & Research	3

Psychology

Course	Title	Credits
MSE 2701	PSY:The Sounds of Human Lang.	4
PSY 2050	Research Methods in Psy.	3
PSY 2800	Human Factors	3
PSY 2900	Special Topics	3
PSY 3300	Perception	3
PSY 4200	Biopsychology	3
PSY 4500	Cognitive Psychology	3
PSY 4600	Animal Learning & Cognition	3
PSY 5900	Independent Research Project	3

Spanish

Course	Title	Credits
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Cognitive Science Concentration

Program Director: Deena Weisberg, Ph.D.
Office Location: Tolentine Hall Rm 222
Telephone: (610) 519-4744
[Website](#)

About

The Cognitive Science Program offers a course of study in the interdisciplinary field of Cognitive Science, bringing together perspectives from cognitive psychology, computer science, philosophy, and biology to understand how intelligent systems function. An undergraduate concentration and an undergraduate minor are available to all students in undergraduate colleges of the University. The program is particularly well suited to students majoring in Psychology, Computing Sciences, Philosophy, and Cognitive & Behavioral Neuroscience.

Program [Cognitive Science](#)
Degree Type Concentration

Concentration: Cognitive Science (21 credits)

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students may take CSC 1010 to fulfill the CSC 1051 requirement.
- Special topics, research, and independent study electives (BIO 6509, CBN 2900, CBN 5900, CSC 5930, CSC 5993, PHI 2990, PHI 4990, PSY 2900, PSY 5900) require approval of the Cognitive Science Program.
- For courses that have prerequisites, Cognitive Science students should apply to have the prerequisites waived. Decisions will be made on a case-by-case basis by the course instructor, or in some cases, the Director of the Cognitive Science Program, after considering the particular student's background. In most cases, it is expected that the prerequisites will be able to be waived.

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4
	Artificial Intelligence or Machine Learning	3-4
PHI 4610	Philosophy of Mind	3
PSY 4500	Cognitive Psychology	3
CGS 5900	Cognitive Science Seminar	3
	Cognitive Science Concentration Electives	6

Artificial Intelligence or Machine Learning

Elective Credits 3-4

Choose one:

Course	Title	Credits
CSC 4500	Artificial Intelligence	3
CSC 4505	Applied Machine Learning	3
CSC 4510	Machine Learn&Theory&Evolution	3
MSE 2400	CSC:Evol Lrng Cmp Robtcs Agnts	4

Cognitive Science Concentration Electives

Elective Credits 6

Choose two Cognitive Science approved electives from the list below, or any courses with the CGS attribute

Biology

Course	Title	Credits
BIO 3011	Animal Behavior Lecture	3
BIO 3015	Animal Behavior	4
BIO 4605	Neurobiology	4
BIO 6509	Directed Research I	2

Cognitive and Behavioral Neuroscience

Course	Title	Credits
CBN 4100	Cognitive Neuroscience	3
CBN 5900	Undergraduate Research in CBN	3

Cognitive Science

Course	Title	Credits
CGS 2000	Linguistics as a Cognitive Sci	3
CGS 4000	Bilingualism	3
CGS 5910	Psychology of Language	3
CGS 5990	Special Topics	3

Computer Science

Course	Title	Credits
CSC 4170	Theory of Computation	3
CSC 4500	Artificial Intelligence	3
CSC 4505	Applied Machine Learning	3
CSC 4510	Machine Learn&Theory&Evolution	3
CSC 5930	Topics Computer Science	3
CSC 5993	Independent Study	3
MSE 2400	CSC:Evol Lrng Cmp Robtcs Agnts	4
ECE 2620	C++, Algorithms & Data Struct	4

Philosophy

Course	Title	Credits
PHI 2020	Symbolic Logic	3
PHI 2990	Topics in Philosophy	3
PHI 4990	Independent Study & Research	3

Psychology

Course	Title	Credits
MSE 2701	PSY:The Sounds of Human Lang.	4
PSY 2050	Research Methods in Psy.	3
PSY 2800	Human Factors	3
PSY 2900	Special Topics	3
PSY 3300	Perception	3
PSY 4200	Biopsychology	3
PSY 4600	Animal Learning & Cognition	3
PSY 5900	Independent Research Project	3

Spanish

Course	Title	Credits
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College of Liberal Arts & Sciences

Disability and Deaf Studies Minor

Director: Dr. Christa Bialka
Location: Saint Augustine Center, Room 360
Phone: 610-519-4733
[Website](#)

MINOR: Disability & Deaf Studies (17 credits)

Students enrolled in the Disability and Deaf Studies Minor must complete 17 credit hours across one of two tracks: Disability Studies Track or Deaf Studies Track. All students will take two foundational 1 credit courses: EDU 3100: Disability and Deaf Studies Seminar and COM 5300: IGR (Ability). Students enrolled in the Disability Studies Track will complete two required courses and select from three additional elective courses. Students enrolled in the Deaf

Studies Track will complete three required courses and choose from two additional elective courses.

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Program College of Liberal Arts & Sciences

Degree Type Minor

Foundation Courses

All students must complete these two foundation courses for the minor.

Course	Title	Credits
EDU 3100	Disability & Deaf Studies Semi	1
COM 5300	DialogueIdentity&SociaJustice	

Disability Studies Track

Course	Title	Credits
	Required Courses for Disability Studies	6
	Elective Courses for Disability Studies	9-10

Deaf Studies Track

Course	Title	Credits
	Required Courses for Deaf Studies	9
	Elective Courses for Deaf Studies	6-7

Required Courses for Disability Studies

Elective Credits 6

Students focusing on the Disability Studies track must take these two courses.

Course	Title	Credits
EDU 3264	Intro to Disability Studies	3
ETH 3210	The Ethics of Disability	3

Elective Courses for Disability Studies

Elective Credits 9-10

Students focusing on the Disability Studies track must take three electives from the list below, or any course with the DSBL attribute.

Course	Title	Credits
ASL 1111	Intro to Amer Sign Language3 I	
ASL 1112	Intro to American Sign Lang 3 II	
COM 1400	Introduction to Deaf Studies	3
COM 3201	Rhetoric & Social Justice	3
COM 3240	Performance for Social Change	3
EDU 3263	Diversity and Inclusion	3
ENG 3507	StrangeCases:ImagHealth&Illnes	3
MSE 2203	BIO:Heredity & Human Affairs	4
MSE 2701	PSY:The Sounds of Human Lang.	4
PJ 2500	Education & Social Justice	3
PJ 2800	Race, Class, & Gender	3
SOC 3400	Health, Medicine & Society	3
SOC 3450	Soc of Mental Health & Illness	3
SOC 3800	Social Movements	3

Required Courses for Deaf Studies

Elective Credits 9

Students focusing on the Deaf Studies track must take these three courses.

Course	Title	Credits
COM 1400	Introduction to Deaf Studies	3
ASL 1111	Intro to Amer Sign Language3 I	
ASL 1112	Intro to American Sign Lang 3 II	

Elective Courses for Deaf Studies

Elective Credits 6-7

Students focusing on the Deaf Studies track must take two electives from the list below, or any course with the DEAF attribute.

Course	Title	Credits
CGS 5910	Psychology of Language	3
COM 3201	Rhetoric & Social Justice	3
COM 3240	Performance for Social Change	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
ETH 3210	The Ethics of Disability	3
MSE 2203	BIO:Hereditry & Human Affairs	4
MSE 2701	PSY:The Sounds of Human Lang.	4
PJ 2500	Education & Social Justice	3
PSY 3300	Perception	3
PJ 2800	Race, Class, & Gender	3
SOC 3800	Social Movements	3

Sustainability Studies Minor

Program Director: Frank Galgano, Ph.D.
Office Location: Mendel Science Center G67E
Telephone: 610-519-3336
[\[Website\]](#)

Engineering students should contact:
Minor Director: Virginia Smith, Ph.D.
Office Location: 364A Drosdick Hall
Telephone: (610) 519-4961
Email: virginia.smith@villanova.edu

Program College of Liberal Arts & Sciences
Degree Type Minor

MINOR: Sustainability Studies (18 credits)

The sustainability minor is open to all students and requires 6 courses and ~21 credits (dependent on lab course selections). It is designed for students who wish to deepen and broaden their knowledge of sustainability with a distinctive program of study encompassing the relationship between the environment and society. In addition to taking GEV 3001 (which will replace one course from either the Humanities or Policy Stem), students will select two courses from each of the three stems below: Humanities, Policy, and Science and Technology.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students may count 2 sustainability-approved courses from their primary major or a relevant core course (including relevant MSE courses) toward the minor.
- Course list may be supplemented by the program director as new courses become available
- With the permission of the program director, the following courses MAY be counted (when they are sustainability-relevant: For PJ 3000, PJ 5000, ECO 4200, GEV 3000, GEV 4330, GEV 4340, GEV 4510, PSC 4275, CEE 4612, CHE 4831/32.
- BIO 4451/52, CHE 4831/32, CHM 1311/01, GEV 1050, GEV 1051, GEV 432X: Associated Lab Required, see advisor

Course	Title	Credits
GEV 3001	Intro to Sustainability Study	3
	Humanities Stem Courses	
	Policy and Management Stem Courses	
	Science and Technology Stem Courses	

Humanities Stem Courses

Choose two courses from the list below or two that carry the SHUM attribute.

- The required GEV 3001 course counts towards either one Humanities Stem or one Policy Stem requirement.
- **Listed topics courses/history and english core may only count toward the minor if they fall within the Sustainability Studies list of approved courses.** If in doubt, see program director.

Humanities Stem

The list below also includes:

- ENG 4690 (Post-200 American Apocalypse or Literature and the Environment sections)
- PJ 4250

Course	Title	Credits
CHI 3412	Chinese Special Topics	3
ENG 1975	Core Lit and Writing Seminar	3
ENG 2018	Nature Writing Workshop	3
ENG 2304	Cont World Lit & Environment	3
ENG 4703	21st C. American Apocalypse	3
ETH 3010	Topics in Ethics	3
GEV 2525	Population Geography	3
GEV 3004	Geographies Envrnl Justice	3
GIS 4100	Topics in GIS	3
GIS 5000	Special Topics	1
HIS 1065	Topics Nature, Environ & Tech	3
JPN 3412	Special Topics	3
LAS 3412	Special Topics	3
PHI 2121	Environmental Ethics	3
PHI 2550	Technology & Society	3
PHI 4210	Environmental Philosophy	3
PJ 3000	Selected Topics	1
PJ 5000	Selected Topics	3
SPA 3412	Special Topics	3
SPA 3485	Nature in the Middle Ages	3
THL 2460	Bible and Environment	3
THL 4100	THM Catholic Ethics	3
THL 4330	Christian Environmental Ethics	3
THL 4490	THM Christian Ethics	3

Policy and Management Stem Courses

Choose two courses from the list below or two that carry the SPOL attribute.

- The required GEV 3001 course counts towards either one Humanities Stem or one Policy Stem requirement.
- **Listed topics courses may only count toward the minor if they fall within the Sustainability Studies list of approved courses.** If in doubt, see program director.

The following courses are included in the list below:

- PSY 2500

Course	Title	Credits
ECO 3108	Global Political Econ	3
ECO 3200	Topics in Economic	3
GEV 2500	Global Change in Local Places	3
GEV 3000	Special Topics	3
GEV 3001	Intro to Sustainability Study	3
GEV 3522	Geography of the Middle East	3
GEV 3570	Land Use Planning & Mgmt	3
GEV 3580	Natural Res and Conservation	3
GEV 3590	Topical Research Problems	3
GEV 4001	Advanced Sustainability Study	4
GEV 4300	Selected Topics	1
GEV 4331	Env. Policy & Management	3
GEV 4336	Environmental Economics	3
GEV 4516	Environmental Security	3
MGT 2208	International Topics	3
PA 2000	Public Policy	3
PA 3000	Overview of Non-Profit Sector	3
PJ 5000	Selected Topics	3
PSC 4275	Topics in Internat'l Relations	3
VIA 3020	Creating Social Impact	3
VIA 3050	Building What Matters	3

Science and Technology Stem Courses

Choose two courses from the list below or two that carry the SSCT attribute.

- **Listed topics courses may only count toward the minor if they fall within the Sustainability Studies list of approved courses.** If in doubt, see program director.

Science and Technology Stem

- MSE 2508 may also count.

Course	Title	Credits
BIO 3661	Environment and Human Health	3
BIO 3952	Special Topics in Biology LAB	1
BIO 3485	Marine Biology	4
BIO 3385	Global Change Ecology	4
CEE 2211	Transportation Engineering	3
CEE 4612	CEE Undergraduate Research	3
CHE 5001	Industrial Liq & Sld Waste	3
CHE 5715	Alternative Energy	3
CHE 4831	Senior Project Studio I	3
EGR 2110	Sus Eng: Risks & Opportunities	3
GEV 1004	Climate Change	3
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4
GEV 1052	Environmental Studies	3
GEV 1053	Environmental Studies II	3
GEV 3000	Special Topics	3
GEV 3308	Environmental Health	3
GEV 3521	GIS for Urban Sustainability	3
GEV 3550	Natural Hazards	3
GEV 4300	Selected Topics	1
GEV 4320	Spec. Topics in Env Lab Sci	4
GEV 4322	Ocean Environments	4
GEV 4323	Watershed Biogeochemistry	4
GEV 4331	Env. Policy & Management	3
GEV 4511	Climate Variability	3
GEV 4512	Medical Geography	3
GEV 4518	COVID-19 Pandemic	3
MET 1221	Severe & Hazardous Weather	3
MET 1222	Climate Change: Past & Present	3
MSE 2205	BIO: Biodiversity & Conservation	4
MSE 2301	CHM: Water	4
MSE 2305	Perspective on Plastic	4
MSE 2500	GEV: Env. Sustainability	4
MSE 2507	GEV: Environmental Pollution	4
SCI 5300	Capstone Seminar	3
VIA 3010	Indoor Air Quality/Hum Hlth	3

Individually Designed Major

Program Director: Joseph Lennon, Ph.D.
Office Location: 105E Saint Augustine Center
Telephone: 610-519-4647
[IDM Application](#)

About

An individually designed major (IDM) is motivated by the learner's own goals and guided by a roadmap that the student develops in close consultation with faculty. Unlike an independent study, where a faculty member takes the lead in preparing a set of readings and assignments, an IDM places the primary responsibility on the learner to identify the goals, explicitly define periodic assessment benchmarks, and construct a long-term plan of study.

An objective of IDM is to foster a more explicit pursuit of interdisciplinary study, providing a mechanism for you to design a major that will intentionally integrate different methodologies, topics, disciplinary cultures, and learning styles.

Program [College of Liberal Arts & Sciences](#)
Degree Type B.A. OR B.S.

PRIMARY MAJOR (122 credits)

Faculty members and the established programs and departments within the College of Liberal Arts and Sciences (CLAS) serve as resources for the students. Students must be highly motivated and independent learners in order to pursue this course of study, which is only viable if existing majors and minors do not provide a pathway to the learner's goals. Lastly, and crucially, these goals must be articulated early in the student's college career by the end of the first semester of sophomore year.

Required Major Courses (33 credits)

An Individually Designed Major (IDM) is motivated by students' own learning goals, and guided by a curriculum map that you will develop in consultation with faculty mentors, the Associate Dean, and the IDM committee.

This is not a series of Independent Study courses, wherein a faculty member takes the lead in developing a reading and writing program for students. Rather, faculty members and the established programs and departments within the College of Liberal Arts and Sciences (henceforth, LAS), function as collaborative resources for students to pursue a defined course of study. This is only allowable if no established majors are able to provide a pathway for students to achieve their stated goals.

The IDM provides an interdisciplinary mechanism for students to design a major that will integrate different methodologies, topics, disciplinary cultures, and learning styles. The major requires an introductory course and a research or methods course, as well as an academic capstone experience.

Program Notes:

- The total credits for the IDM major is dependent on the design of the major. The minimum is 33 credits.

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (45 credits)

Students with an Individually Designed primary major have forty-five (45) required free elective credits.

Degree Credit Summary

- **Major Credits:** 33 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 45 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare IDM as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

College of Professional Studies

Associate of Arts

The Associate of Arts (AA) is an undergraduate degree program designed for students who want a rigorous and diverse general curriculum. Students will take courses in a broad range of disciplines, studying the Humanities, Social Sciences, Math, Natural Sciences, Language, Culture, and Fine Arts. Students can customize their academic plan with electives catered to their professional and personal interests. This post-secondary academic credential positions students for career advancement, and may be a first step towards earning a Bachelor's degree. An Associate's degree is also an appropriate pursuit for students who may be undecided on a major and still exploring their interests and career options.

The AA degree requires students to complete a minimum of 60 credits, 30 of which must be taken at Villanova University. Up to 30 credits can be transferred from an accredited institution at the time of admission.

The degree can be completed in-person on Villanova's campus, online, or as a hybrid program.

Program [College of Professional Studies](#)
Degree Type Associate in Arts

Required Courses

Humanities in Augustinian Tradition - 12 credits

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
PHI 1000	Knowledge, Reality, Self	3
THL 1000	Faith, Reason, and Culture	3

Civic and Ethical Leadership - 3 credits

Course	Title	Credits
ETH 2050	The Good Life:Eth & Cont Prob	3

Core Literature and Writing Seminar - 3 credits

Course	Title	Credits
ENG 1975	Core Lit and Writing Seminar3	

History - 3 credits

Course designated as Core History

Course	Title	Credits
	Core History Course	3

Fine Arts - 3 credits

Art History, Studio Art (Drawing, Painting, Calligraphy, Printmaking, Photography), Theater

Course	Title	Credits
	Fine Arts (1 course)	3

Social Science - 3 credits

Economics, Gender & Women's Studies, Geography & the Environment, Global Interdisciplinary Studies, Political Science, Psychology, Public Administration or Sociology

Course	Title	Credits
	Social Science	3

Math - 3 credits

Elementary Statistics or similar course

Course	Title	Credits
STAT 1260	Elementary Statistics	3

Foreign Language - 6 credits

[Language Requirement \(Proficiency\)](#) or
Approved Culture Courses

Natural Science - 6 credits

Two semesters of Mendel Science Experience (MSE) thematically based lecture/laboratory courses designed for non-science majors; or two semesters of lecture/laboratory courses designed for science majors.

Free Electives - 18 credits

see [Free Electives Policy](#)

Core History Course

Elective Credits 3

Choose one of the specially designated core history courses (HIS 1060 through HIS 1250).

Social Science

Elective Credits 3

Choose from Criminology, Geography and the Environment, History, Political Science, Psychology, Public Administration, Sociology, and Social Science.

Communication

Communication Major

Chair: Thomas Ksiazek, Ph.D.
Office Location: Garey Hall 028
Telephone: (610) 510-4750
[Website](#)

About

Communication shapes who we are, both individually and socially. We in the Communication Department believe our future depends upon our communication with one another. The study of Communication in the liberal arts tradition focuses on the understanding and use of symbols that create meaning in multiple communicative

contexts—global and local, personal and professional, in-person and mediated. The discipline of Communication is grounded in ancient rhetorical traditions and is influenced by contemporary intellectual, artistic and technological developments. Our program integrates theory and practice, so that skills-based courses build upon communication principles, concepts, insights, and research techniques. Our mission, then, is to produce well-rounded communicators who will speak eloquently and listen actively; think critically, creatively, and ethically; and write clearly and strategically. Our graduates are placed in top graduate programs and law schools, as well as prepared to build careers in industries from public relations and marketing to media production and print/broadcast/digital journalism. Whether in corporate or nonprofit careers, serving their communities, or engaged in further academic study, our graduates illustrate that students of Communication are uniquely equipped to make a difference locally and globally, in their lives and in the lives of others.

Program [Communication](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

To Declare the Major: Enrollment in COM 1000 and COM 1100

Required Major Courses (36 credits)

Students may choose a concentration to focus their Communication degree. With or without a concentration, students must cover three different areas in their six 3000-level courses. Some concentrations require Communication majors to complete internships, which, if completed for credit, will be used to satisfy free electives for the College of Liberal Arts and Sciences.

Program Notes:

- Only two courses may be transferred to count towards the COM major.
- Students who plan to study abroad should take COM 1000, 1100, and at least one 2000-level course before going abroad.
- Students must complete COM 4001 or COM 4002 before taking the Capstone course.

Course	Title	Credits
COM 1000	Surv of Communication Studies	3
COM 1100	Public Speaking	3
	Theories Electives	6
	Advanced Communication Topics Electives	18
	Qualitative or Quantitative Research in Communication	3
	Capstone Course	3

Concentrations

Students may choose either to design their own major concentration or will choose one (or more) of the following concentrations:

Course	Title	Credits
	Interpersonal & Intercultural Communication Concentration	
	Journalism Concentration	
	Media Production Concentration	
	Media Studies Concentration	
	Organizational Communication Concentration	
	Performance Studies Concentration	
	Public Relations & Advertising Concentration	
	Rhetorical Studies Concentration	

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (42 credits)

Students with a Communication primary major have forty-two (42) required free elective credits.

Degree Credit Summary

- **Major Credits:** 36 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 42 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Communication as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Theories Electives

Elective Credits 6

Theories Electives (6 cr) – Select 2 Classes from COM 2200:2440.

Course	Title	Credits
COM 2200	Theories of Rhetoric	3
COM 2240	Theories of Perform Studies	3
COM 2280	Theories of Persuasion	3
COM 2300	Theories of Mass Communication	3
COM 2340	Theories of Visual Com & Cultu	3
COM 2400	Theories of Interpersonal Com	3
COM 2440	Theories of Organizational Com	3

Advanced Communication Topics Electives

Elective Credits 18

Advanced Communication Topics Electives (18 cr) – Select 6 Classes from: COM 3000:3999.

- Students must cover three different areas in their six 3000-level courses.

Qualitative or Quantitative Research in Communication

Elective Credits 3

Qualitative or Quantitative Research in Communication (3 cr) – Select 1 Class.

- Students must complete this prior to taking the Capstone.

Course	Title	Credits
COM 4001	Qualitative Research in COM	3
COM 4002	Quantitative Research in COM	3

Capstone Course

Elective Credits 3

Choose one Capstone course (taken during senior year).

Course	Title	Credits
COM 5050	Senior Project	3
COM 5464	Public Relations Campaigns	3

Interpersonal & Intercultural Communication Concentration

Interpersonal and Intercultural Communication at the undergraduate level focuses on understanding how individuals communicate across various contexts, such as family, workplace, and healthcare settings, as well as across different ethnicities and cultures. This field examines the role of communication in shaping and negotiating identities, intimate relationships, families, friendships, and professional interactions. Students explore the cognitive processes behind message production, social

interactions, relationship management, conflict resolution, and intercultural competence; emphasizing cultural awareness, adaptation, and effective communication. Graduates with this concentration can pursue a multitude of different careers as conflict mediators, counselors, intercultural trainers, communication competence consultants, and human resources specialists. As interpersonal and intercultural communication is fundamental to all human interactions, this concentration complements fields such as organizational communication, psychology, education, counseling, and political science.

Area Coordinator: [Qi Schlupp, PhD](#)

2000-Level

Students are required to take COM 2400 - Theories of Interpersonal Com, and one course from COM 2200:2440.

Course	Title	Credits
COM 2400	Theories of Interpersonal Com	3

3000-level

Students must choose three Interpersonal or intercultural communication classes from the list below.

Course	Title	Credits
COM 3401	Relational COM Studies	3
COM 3402	Family Communication	3
COM 3403	Intercultural Communication	3
COM 3404	Communication & Conflict	3
COM 3490	SpToplntnrpersonalIntrcultural3	

Organizational Communication Course

In addition, students must choose one 3000-level course from the Organizational Communication area: COM 3441:3449.

Journalism Concentration

Journalism studies the creation, framing and distribution of news across a variety of platforms.

Students who complete this Concentration develop the skills necessary to thrive in the industry.

After completing introductory courses in the major, students will choose from a series of theory courses that begin to build the foundation for your courses in journalism. At the advanced level, you will take Introduction to Journalism, which offers a broad survey of the field. This is the prerequisite for specialized topical and skills courses, such as Multimedia Journalism, Sports Journalism, Feature Writing, Broadcast Journalism and other journalism topics. These advanced courses offer more focused coverage and allow students to customize the curriculum to their personal interests. They are also required to take at least one Media Production course and another COM 3000-level course from a different area.

- This concentration requires a journalism internship.

Area Coordinator: [Michael Bradley, MA](#)

2000-Level

Students are required to take two courses between COM 2200:2440.

Intro Course

Students must first complete COM 3360 - Introduction to Journalism.

Course	Title	Credits
COM 3360	Introduction to Journalism	3

3000-level

After completing COM 3360, student must choose two journalism classes from the list below.

Course	Title	Credits
COM 3305	Radio Broadcasting	3
COM 3363	Broadcast Journalism	3
COM 3365	Sports Journalism	3
COM 3366	Multimedia Journalism	3
COM 3367	Journalism Topics	3
COM 3368	Feature Writing	3

Media Production Course

Students must choose one 3000-level course from the Media Production area: COM 3301:3321 or COM 3391 and one additional 3000-level course from a different area of Communication.

Aspiring journalists are encouraged to take more than one of these (or to double in Media Production) in order to fill out their resume.

Media Production Concentration

The Media Production concentration equips students with essential skills for designing, producing, and editing content across television, film/video, audio, radio, and multimedia platforms. This hands-on program is ideal for students pursuing careers in audio production and sound recording, radio and internet broadcasting, television production, video editing, and multimedia production.

Students benefit from practical training that bridges technical expertise and creative storytelling, using state-of-the-art tools and technology. The curriculum integrates foundational communication theory with real-world applications, ensuring that students not only master production techniques but also understand the broader societal impact of media. Projects such as podcasts, short films, video segments, and multimedia content offer immersive experiences that build adaptability and innovation. Graduates are prepared to excel as media professionals, equipped to create high-quality, impactful content and navigate the evolving landscape of media and communication.

- This concentration requires a production internship.

Area coordinator: [Hezekiah Lewis, MFA](#)

2000-Level

Students must take COM 2340 - Theories of Visual Communication & Culture and one course from COM 2200:2440.

3000-level

Students must take 3 courses in the area.

- COM 3301 is pre-requisite to COM 3302.

Course	Title	Credits
COM 3301	Intro to Film & Video Prod	3
COM 3302	Advanced Film & Video Prod	3
COM 3303	Screenwriting	3
COM 3305	Radio Broadcasting	3
COM 3308	Digital Image Production	3
COM 3321	Interactive Media Design	3
COM 3391	Spec Top Media Production	3

Media Studies Course

Students must choose one 3000-level course from the Media Studies area: COM 3340:3357 or COM 3390.

Media Studies Concentration

Media Studies explores the evolving domestic and international landscape of mass media through both social scientific and humanities theoretical and empirical frameworks, including media effects, media ethics, and historical, critical, psychological, and socio-cultural analysis of media. Courses variously examine film, television, digital, and social media content, form, platforms, technologies and industries (e.g. documentary and fiction film, entertainment television, news, advertising) to teach students how to construct ethical and effective messages and stories, and/or to understand how communication and media influence audiences' identities, perceptions, attitudes and behaviors while also shaping and being shaped by society, culture (including consumer culture), politics, media policy, and power.

Area coordinator: [Susan Mackey-Kallis, PhD](#)

2000-Level

Students are required to take two 2000-level COM theory classes, COM 2200:2440.

- Students are encouraged but not required to take COM 2300: Theories of Mass Comm and/or COM 2340: Theories of Visual Comm and Culture.

3000-level

Student must choose three classes from the list below.

Course	Title	Credits
COM 3340	Film History	3
COM 3341	Gender and Film	3
COM 3342	International Cinema	3
COM 3343	Contemporary Cinema	3
COM 3351	Media & Society	3
COM 3352	Media & Technology	3
COM 3353	Media & Politics	3
COM 3354	Media Criticism	3
COM 3356	Media Audiences	3
COM 3357	Critical Approaches Advertising	3
COM 3390	Spec Top in Media Studies	3

Media Production Course

In addition, students must choose one 3000-level production course from the media production area: COM 3301:3321 or COM 3391.

Organizational Communication Concentration

Organizational Communication studies communication as an organizing process, as well as its role in creating identities, relationships, discourses, and cultures within organizations. This is a perfect track for a career in corporate training and development, corporate or international negotiations, human relations/resources, communication management, or organizational consulting.

Area Coordinator: [Dron Mandhana, PhD](#)

2000-Level

Students are required to take COM 2440 - Theories of Organizational Com, and one course from COM 2200:2440.

3000-level

Student must choose three classes from the list below.

Course	Title	Credits
COM 3442	Team Based Communication	3
COM 3443	Work Life Negotiation	3
COM 3444	Interviewing	3
COM 3445	COM Consulting in Organization	3
COM 3446	Space, Time & Tech in Organiz.	3
COM 3448	Leadership	3
COM 3449	Applied Topics in Organization	3
COM 3450	Sexual Violence in Org	3

Interpersonal & Intercultural Course

Students must choose one 3000-level Interpersonal & Intercultural Communication course: COM 3401:3408 or COM 3490.

Performance Studies Concentration

Performance Studies views performance as a fundamental part of the way human beings communicate, both on and off the stage. Performance Studies is one of the oldest areas of study in Communication as it focuses on the creation, structure, style, impact, politics, and poetics of performance. Examining the cultural, aesthetic, and rhetorical underpinnings of texts and bodies in and through performance, performance studies puts the body front and center as a key to unlocking self, identity and the power of communication. Performance both on and off the stage invites dialogue and has the power to propel us into understanding disparate experience.

In this concentration we analyze performance, and we do performance. You will study public,

cultural, aesthetic, and literary performance; study performance as advocacy and embodiment; and develop individual artistic and critical skills as you create, adapt, perform, and direct your own work. This concentration is perfect if you are interested in acting, directing, literature, or performance art; it is ideal for any career that involves public presentations, persuasion, creativity, and/or advocacy.

Area Coordinator: [Evan Schares, PhD](#)

2000-Level

Students are required to take COM 2240 - Theories of Performance Studies, and one additional course from COM 2200:2440.

3000-level

Student must choose three classes from the list below.

Course	Title	Credits
COM 3240	Performance for Social Change	3
COM 3241	Performance of Literature	3
COM 3243	Performance Art	3
COM 3246	Performance of Greek Lit	3
COM 3247	Storytelling	3
COM 3248	Performance Ethnography	3
COM 3249	Performance & Intersectionality	3
COM 3291	Spec Top in Performance	3

Public Relations & Advertising Concentration

Public Relations and Advertising studies image creation and maintenance, media relations, strategic campaign planning and implementation, and crisis communication. This is perfect if you're interested in a career in any area of public relations, marketing, advertising, or integrated communication.

- This concentration requires a public relations and advertising internship, and students must join the Public Relations Student Society of America.

- PRSSA Membership: Strongly suggested for junior year, required for senior year. Send a copy/screenshot of your membership to Laura.Capriotti@villanova.edu.

Area Coordinator: [William Cowen, EdD](#)

2000-Level

Students are required to take two courses between COM 2200:2440.

3000-level

Students must complete the following three courses; note that COM 3460 must be taken first, followed by COM 3462, and both must be taken prior to COM 5464. COM 3461 may be taken at any time.

Course	Title	Credits
COM 3460	Public Relations	3
COM 3461	Advertising	3
COM 3462	Public Relations Writing	3

Concentration Capstone

Students of this concentration will take COM 5464 in place of the standard capstone course.

Course	Title	Credits
COM 5464	Public Relations Campaigns	3

Rhetorical Studies Concentration

Rhetorical Studies engages questions of public meaning, important definitions and issues that matter—legally, politically, and socially. We prepare you to understand and intervene in the daily struggle over social meanings, the process by which these meanings are created, reinforced, and resisted through symbols, material spaces, and visual images.

A rhetorical education is a crucial part of the liberal arts trivium and has long been understood as crucial to democratic participation because of the skills it offers in advocacy, as well as in critical analysis of political symbols and their influences. Through the use of critical and interpretive methods, rhetorical studies focuses on how communication comes to have meanings for

audiences. This is an ideal pre-law major or a strong preparation for careers in advocacy, politics, or social justice work.

Area Coordinator: [Billie Murray, PhD](#)

2000-Level

Students are required to take COM 2200 - Theories of Rhetoric, and one course from COM 2200:2440.

3000-level

Students must complete the three courses from the list below.

Course	Title	Credits
COM 3201	Rhetoric & Social Justice	3
COM 3203	Communication Law & Policy	3
COM 3204	Rhetoric and Democracy	3
COM 3206	Argumentation & Advocacy	3
COM 3207	African American Rhetoric	3
COM 3208	Rhetoric and Myth	3
COM 3209	Rhetorics of Race	3
COM 3290	Special Topics in Rhetoric	3
COM 3212	Rhetoric of Conspiracy Theories	3

Communication Minor

Chair: Thomas Ksiazek, Ph.D.
Office Location: Garey Hall 028
Telephone: (610) 510-4750
[Website](#)

About

Communication shapes who we are, both individually and socially. We in the Communication Department believe our future depends upon our communication with one another. The study of Communication in the liberal arts tradition focuses on the understanding and use of symbols that create meaning in multiple communicative contexts—global and local, personal and professional, in-person and mediated. The discipline of Communication is grounded in ancient rhetorical traditions and is influenced by contemporary intellectual, artistic and technological developments. Our program

integrates theory and practice, so that skills-based courses build upon communication principles, concepts, insights, and research techniques. Our mission, then, is to produce well-rounded communicators who will speak eloquently and listen actively; think critically, creatively, and ethically; and write clearly and strategically. Our graduates are placed in top graduate programs and law schools, as well as prepared to build careers in industries from public relations and marketing to media production and print/broadcast/digital journalism. Whether in corporate or nonprofit careers, serving their communities, or engaged in further academic study, our graduates illustrate that students of Communication are uniquely equipped to make a difference locally and globally, in their lives and in the lives of others.

Program [Communication](#)

Degree Type Minor

MINOR: Communication (15 credits)

Students within the College of Liberal Arts & Sciences or Villanova School of Business can minor in Communication by taking five courses.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Only one course may be transferred to count toward the COM minor.
- Students wishing to minor in Communication from within CLAS or other Villanova colleges/schools are encouraged to contact the Communication Department to learn about ways to build a minor that will complement their major programs of study.

Course	Title	Credits
COM 1000	Surv of Communication Studies	3
	Theories Course	3
	Advanced Communication Elective	3
	Additional Communication Electives	6

Theories Course

Elective Credits 3

Theories Course (3cr): 1 Class in COM 2000:2999 with the exception of COM 2993, 2996.

Advanced Communication Elective

Elective Credits 3

Advanced Communication Elective (3cr): 1 Class in COM 3000:3999.

Additional Communication Electives

Elective Credits 6

Additional Communication Electives (6cr): 2 Classes in COM at any level 1000-4000.

- Taking 2 3000-level courses may permit minors to specialize in an area.
- A 3-credit internship focused on communication could satisfy one of the Additional COM Elective courses

Comprehensive Science

Comprehensive Science Major

Program Director: Robert Styer, PhD
Co-Director: Joseph Comber, PhD; Elise Pasles, PhD; Jared Paul, PhD
Office Location: Saint Augustine Center Rm. 372
Telephone: (610) 519-4845
[Website](#)

About

The Comprehensive Science program allows students interested in the quantitative and physical and life sciences to get broad based competency to a full spectrum of scientific concerns and practices. Our majors gain both hands-on lab skills and quantitative aptitudes through a broad range of courses in mathematics, physical and life sciences, and computer science. The program equips students with the analytical, interpretive, and explanatory

skill sets that enable their understanding of the scientific world. The flexible program allows students to create a tailored interdisciplinary program that can prepare the student for a variety of professions or graduate studies. Our majors go on to medical schools, dental schools, and other health related graduate programs, as well as careers as financial analysts, lab researchers, computing, pharmaceutical, and other careers that require a science/math background.

Program [Comprehensive Science](#)

Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Required Major Credits (65 credits)

Program Notes:

- Chemistry majors who transfer to Comprehensive Science (BSC) may count CHM 1311/CHM 1301 in place of the CHM 1151/CHM 1103 requirement listed below.
- Chemistry majors who transfer to Comprehensive Science (BSC) may count CHM 1521/CHM 1502 in place of the CHM 1152/CHM 1104 requirement listed below.
- Any sciences capstone may count for the BSC capstone requirement.

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
CSC 1051	Algorithms & Data Struc I	4
MAT 1500	Calculus I	4
	Approved Physics with Labs	8
	Science Major Statistics	3
	Approved Math or Computing Elective	3
SCI 5300	Capstone Seminar	3
	Approved Science Electives	21-22

Core Curriculum Requirements (33 credits)

Comprehensive Science Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (24 credits)

Students with a Comprehensive Science primary major have twenty-four (24) required free elective credits.

Degree Credit Summary

- **Major Credits:** 65 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 24 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Comprehensive Science as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Approved Physics with Labs

Elective Credits 8

Two semesters of an approved (science major level) physics with labs. Choose one sequence from those listed below.

Course	Title	Credits
PHY 1100	General Physics I	3
PHY 1101	General Physics I Lab	1
PHY 1102	General Physics II	3
PHY 1103	General Physics II Lab	1
Course	Title	Credits
PHY 2410	University Phy:Mechanics	3
PHY 2411	Lab: Mechanics	1
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2413	Lab:Elec & Magnetism	1

Science Major Statistics

Elective Credits 3

One semester of science major-level statistics. Choose any STAT course of 3000-level or above, or select from those listed below.

Course	Title	Credits
BIO 3105	Experimental Design & Analysis	4
CSC 2300	Statistics for Computing	3
PSY 2000	Intro Statistics	3
STAT 1313	Statistics for Life Sciences	3

Approved Math or Computing Elective

Elective Credits 3

One additional approved Mathematics or Computing course from the list below.

Course	Title	Credits
BIO 3105	Experimental Design & Analysis	4
CSC 1052	Algorithms & Data Struc II	4
CSC 1300	Discrete Structures	3
MAT 1314	Modeling for the Life Sciences	3
MAT 1505	Calculus II	4
MAT 2600	Mathematical Reasoning & Proof	3

Approved Science Electives

Elective Credits 21-22

Science Electives (21 cr across 7 courses) from among these course ranges AST 2120:9999, BIO 2200:9999, CBN 2900:4000, CGS 5900:5950, CHM 2200:4900, GEV 3300:3306, 4321:4329, 4351:4356, MAT 2300:5993, PHY 2414:6700, STAT 3000:9999, or any MAT course of 2300 or above, or any STAT course of 3000 or above, or any course with the BSC attribute, or any course with the GESC attribute worth at least 3 credits, or any course listed below.

Program Notes:

- GEV 3000: Special Topics is only permitted as an elective if the given course has the 'Science and Technology' attribute.
- PSY 5900: Independent Research is only permitted to count as an elective if it is approved as a science research project.

Course	Title	Credits
BIO 1205	Human Anatomy & Physiology I	4
BIO 1206	Human Anatomy & Physiology II	4
CHE 5534	Biomaterials	3
CSC 1051	Algorithms & Data Struc I	4
CSC 1052	Algorithms & Data Struc II	4
CSC 1300	Discrete Structures	3
CSC 1700	Analysis of Algorithms	3
CSC 1800	Organ of Prog Languages	3
CSC 2053	Platform Based Computing	3
CSC 2300	Statistics for Computing	3
CSC 2400	Computer Systems I	3
CSC 2405	Computer Systems II	3
CSC 2993	Internship in Computing	3
CSC 3080	Info Security & Protection	3
CSC 4170	Theory of Computation	3
CSC 4181	Compiler Construction	3
CSC 4300	Computer Graphics	3
CSC 4480	Principles of Database Systems	3
CSC 4500	Artificial Intelligence	3
CSC 4510	Machine Learn&Theory&Evolution	3
CSC 4550	Computing for Data Science	3
CSC 4630	Software Dev and Systems	3
CSC 4700	Software Engineering	3
CSC 4790	Senior Projects	3
CSC 4900	Networks and Security	3
ECE 1620	Egr Prog & Applic	3
ECE 2620	C++, Algorithms & Data Struct	4
ECO 3138	Game Theory	3
FIN 2325	Introduction to Derivatives	3
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4
GEV 1052	Environmental Studies	3
GEV 1053	Environmental Studies II	3
GEV 1750	Geo-Techniques	4
GEV 2310	Environmental Chemistry	4
GEV 3000	Special Topics	3
GEV 3308	Environmental Health	3
GEV 3550	Natural Hazards	3
GEV 3750	Remote Sensing	3
GEV 4511	Climate Variability	3
GEV 4512	Medical Geography	3
GEV 4514	Geomorphology	3
GEV 4700	Geographic Information Systems	4
MAT 1314	Modeling for the Life Sciences	3
MET 1221	Severe & Hazardous Weather	3

MET 1222	Climate Change:Past & Present	3
NS 3100	Navigation	3
NTR 2120	Principles of Nutrition	3
NUR 3030	Basic Conc Pharmacology	3
NUR 3108	Pathophysiology	3
PSY 2050	Research Methods in Psy.	3
PSY 2800	Human Factors	3
PSY 3200	Human Development	3
PSY 3300	Perception	3
PSY 3500	Psych of Personality	3
PSY 3600	Social Psychology	3
PSY 4200	Biopsychology	3
PSY 4500	Cognitive Psychology	3
PSY 4600	Animal Learning & Cognition	3
PSY 5150	Foundations of Modern Psych	3
PSY 5900	Independent Research Project	3
SCI 2993	Internship Elective	3
SCI 2996	Internship Elective	6
SCI 5900	Independent Research	3
STAT 1313	Statistics for Life Sciences	3

Laboratory Sciences Minor

Program Director: Robert Styer, PhD
Office Location: Saint Augustine Center Rm. 372
Telephone: (610) 519-4845
[Website](#)

About

The Laboratory Sciences Minor trains the student in careful analysis and opens potential career paths in science-intensive industries such as environmental or biopharmaceutical or medical research careers. This minor is not allowed in combination with a science or engineering major. It is designed for liberal arts or business majors who desire a broad understanding of science and its experimental methods.

Program [Comprehensive Science](#)
Degree Type Minor

MINOR: Laboratory Science (24 credits)

The minor in Laboratory Sciences requires six science courses with accompanying hands-on laboratories. It is open to students in Arts, Business, and Nursing (not open to students in the sciences or engineering). The six courses must span at least three science disciplines. At most two AP course credits may be applied. MSE courses may be used, with the discipline of an MSE course determined by the primary focus of the laboratory component of the course.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Eligible Courses: Science courses that have a hands-on experiential laboratory component, traditionally considered “wet lab” or “field work”, that is, hands on use of physical materials and instrumentation in a physical laboratory or field setting, generally two to three lab hours in addition to the three lecture hours per week.

Course	Title	Credits
Examples of Eligible Courses for Laboratory Sciences		

Examples of Eligible Courses for Laboratory Sciences

Below is a list of courses which may count toward the Laboratory Sciences minor. This is not a complete list.

Course	Title	Credits
	AST 2120 & 2133	5
	AST 2122 & 2134	5
AST 4121	Undergrad Research I	3
BIO 1205	Human Anatomy & Physiology I	4
BIO 1206	Human Anatomy & Physiology II	4
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
BIO 3015	Animal Behavior	4
BIO 3055	Human Physiology	4
BIO 3155	Comparative Anatomy	4
BIO 3385	Global Change Ecology	4
BIO 3455	Histology	4
BIO 3485	Marine Biology	4
BIO 3525	Entomology	4
BIO 3595	General Microbiology	4
BIO 4105	Medical Microbiology	4
BIO 4205	Cell Biology	4
	BIO 4251 & 4252	4
BIO 4355	Experimental Genetics	4
	BIO 4451/52	4
BIO 4505	Molecular Biology	4
BIO 4605	Neurobiology	4
	CHM 1151 & 1103	5
	CHM 1152 & 1104 or CHM 1512 5 & 1502	
	CHM 1131 & 1107	4
	CHM 1134 & 1108	4
	CHM 1311 & 1301	4
	CHM 1502 & 3201	4
	CHM 2211 & 2201	4
	CHM 2212 & CHM 2202	4
	CHM 3311 & 3301	5
GEV 1051	Environmental Science II	4
GEV 1750	Geo-Techniques	4
GEV 2310	Environmental Chemistry	4
GEV 4323	Watershed Biogeochemistry	4
GEV 4700	Geographic Information Systems	4
	PHY 1100 & 1101	4
	PHY 1102 & 1103	4
	PHY 2402 & 2403	4
	PHY 2410 & 2411	4
	PHY 2412 & 2413	4
	PHY 2414 & 2415	4
	PHY 3400 & 4801	5

Computing Sciences

Chair: Daniel Joyce, Ph.D.

Office Location: Mendel Science Center Rm. 161

Telephone: (610) 519-7307

[Website](#)

About

The Department of Computing Sciences seeks to provide outstanding education, to advance scholarship, and to engage in activities that benefit society as a whole, in accordance to the University mission. The Department aims to equip students with a solid foundation in computing theory, and to prepare them for lifelong independent learning and innovative thinking in a constantly changing discipline. Its faculty members strive to maintain professional currency, and to involve students and colleagues in their research investigations. These endeavors support the University mission to transmit, pursue, and discover knowledge in an atmosphere of collegiality in the university community. Supported by a liberal arts education, the Department seeks to develop the total person, sensitive to social and ethical concerns affected by the computing discipline, and committed to addressing the needs of a diverse and interconnected modern society.

Computer Science Major

Chair: Daniel Joyce, Ph.D.

Office Location: Mendel Science Center Rm. 161

Telephone: (610) 519-7307

[Website](#)

About

Computer science students explore a broad spectrum of computing technologies and concepts. Our courses provide a thorough foundation in the principles and practices of computing, paving the way for successful careers and ongoing graduate studies. Our students also learn skills in communication and the scientific, mathematical, and engineering principles that support the computing disciplines.

The Department of Computing Sciences seeks to provide outstanding education, to advance scholarship, and to engage in activities that benefit society as a whole, in accordance to the

University mission. The Department aims to equip students with a solid foundation in computer science, and to prepare them for lifelong independent learning and innovative thinking in a constantly changing discipline. Its faculty members strive to maintain professional currency, and to involve students and colleagues in their research investigations. These endeavors support the University mission to transmit, pursue, and discover knowledge in an atmosphere of collegiality in the university community. Supported by a liberal arts education, the Department seeks to develop the total person, sensitive to social and ethical concerns affected by the computing discipline, and committed to addressing the needs of a diverse and interconnected modern society.

Program [Computing Sciences](#)

Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Required Major Courses (70 credits)

Program Notes:

- Combined BS/MS in Computer Science or Software Engineering: Five-year double degree program. See departmental website for details regarding admission, requirements, the program of study, etc.

Course	Title	Credits
CSC 1990	Enrichment Sem in Computing	1
CSC 1051	Algorithms & Data Struc I	4
CSC 1052	Algorithms & Data Struc II	4
CSC 1300	Discrete Structures	3
CSC 1700	Analysis of Algorithms	3
CSC 1800	Organ of Prog Languages	3
CSC 2053	Platform Based Computing	3
	CSC 2300 or STAT 4310	3
CSC 2400	Computer Systems I	3
CSC 2405	Computer Systems II	3
CSC 4170	Theory of Computation	3
CSC 4480	Principles of Database Systems	3
CSC 4700	Software Engineering	3
CSC 4790	Senior Projects	3
PHI 2180	Computer Ethics	3
MAT 1500	Calculus I	4
MAT 2400	Linear Algebra for Computing	4
	Natural Science with Lab	8
	Computer Science Electives	9

Core Curriculum Requirements (33 credits)

Computer Science Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (19 credits)

Students with a Computer Science primary major have nineteen (19) required free elective credits.

Degree Credit Summary

- **Major Credits:** 70 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 19 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Computer Science as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

CSC 2300 or STAT 4310

Elective Credits 3

Selection one class from those listed.

- STAT 1230 will be accepted but only with the grade of 'AP'

Course	Title	Credits
CSC 2300	Statistics for Computing	3
STAT 4310	Stat Methods	3

Natural Science with Lab

Elective Credits 8

Choose 2 Natural Science courses with labs from those listed below for a total of 8 credits. Student may request permission from the chair to use alternate courses - all course must include a lab component and be targeted at science/engineering majors.

Course	Title	Credits
GEV 4700	Geographic Information Systems	4
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
	PHY 1100 & 1101	4
	PHY 1102 & 1103	4
	PHY 2410 & 2411	4
	PHY 2412 & 2413	4
	CHM 1151 & 1103	5
	CHM 1152 & 1104 or CHM 1512 5 & 1502	

ASTRONOMY AND LAB - Students may select to take a lecture lab combo

- 1 Class in AST 2120, 2121, 2122 "Astronomy"
- 1 Class in MSE 2150, 2151, 2152, 2153 "Astronomy Lab"

Computer Science Electives

Elective Credits 9

Select 3 Classes which have the Computer Science major elective attribute [CMJE]. Student can request permission from the CSC department chair to use other courses related to computing as an elective.

Computer Science Minor

Chair: Daniel Joyce, Ph.D.

Office Location: Mendel Science Center Rm. 161

Telephone: (610) 519-7307

[Website](#)

About

The Department of Computing Sciences seeks to provide outstanding education, to advance scholarship, and to engage in activities that benefit society as a whole, in accordance to the University mission. The Department aims to equip students with a solid foundation in computer science, and to prepare them for lifelong independent learning and innovative thinking in a constantly changing discipline. Its faculty members strive to maintain professional currency, and to involve students and colleagues in their research investigations. These endeavors support the University mission to transmit, pursue, and discover knowledge in an atmosphere of collegiality in the university community. Supported by a liberal arts education, the Department seeks to develop the total person, sensitive to social and ethical concerns affected by the computing discipline, and committed to addressing the needs of a diverse and interconnected modern society.

Program [Computing Sciences](#)

Degree Type Minor

MINOR: Computer Science (20 credits)

The computer science minor consists of 6 courses from the requirements for the computer science major. The minor provides a strong foundation in computer science suitable for application to any other major field of endeavor.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
	CSC Minor Intro Sequence	8
	CSC 1300 or MAT 2600	3
CSC 2053	Platform Based Computing	3
CSC 4480	Principles of Database Systems	3
	Computer Science Electives for Minor	3-4

CSC Minor Intro Sequence

Elective Credits 8

Students select from either Option A or Option B below.

Option A

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4
CSC 1052	Algorithms & Data Struc II	4

Option B

Course	Title	Credits
ECE 1260	EGR Prog and Applic	3
ECE 1261	EGR Prog and Applic Lab	1
ECE 2160	C++ Algorithms & Data Struct	3
ECE 2161	C++ Algorithms&Data Struct 1 Lab	

CSC 1300 or MAT 2600

Elective Credits 3

Select 1 class from these options.

Course	Title	Credits
CSC 1300	Discrete Structures	3
MAT 2600	Mathematical Reasoning & Proof	3

Computer Science Electives for Minor

Elective Credits 3-4

Select 1 class which has the Computer Science minor elective attribute [CMNE]. Student can request permission from the CSC department chair to use other courses related to computing as an elective.

Cybersecurity Minor

Chair: Daniel Joyce, Ph.D.
Office Location: Mendel Science Center Rm. 161
Telephone: (610) 519-7307
[Website](#)

Engineering Students should contact:
Minor Director: Danai Chasaki, Ph.D.
Office Location: Drosdick Hall
Telephone: (610) 519-4979
Email: danai.chasaki@villanova.edu

About

The Department of Computing Sciences seeks to provide outstanding education, to advance scholarship, and to engage in activities that benefit society as a whole, in accordance to the University mission. The Department aims to equip students with a solid foundation in computer science, and to prepare them for lifelong independent learning and innovative thinking in a constantly changing discipline. Its faculty members strive to maintain professional currency, and to involve students and colleagues in their research investigations. These endeavors support the University mission to transmit, pursue, and discover knowledge in an atmosphere of collegiality in the university community. Supported by a liberal arts education, the Department seeks to develop the total person, sensitive to social and ethical concerns affected by the computing discipline, and committed to addressing the needs of a diverse and interconnected modern society.

Program [Computing Sciences](#)
Degree Type Minor

MINOR: Cybersecurity (26 credits)

Offered jointly through the Departments of Computing Sciences in the College of Liberal Arts and Sciences and Electrical and Computer Engineering in the College of Engineering. The program provides students with a solid foundation in the principles of cybersecurity; equips students with the technical skills and knowledge to address constantly evolving cybersecurity threat; promotes independent study and self-reliance so students can keep pace with rapid technological advancement; and prepares graduates to enter the workforce as cybersecurity professionals

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Computer Science majors: at least two of the courses taken for the minor may *not* also be applied to the major. They must be used as free electives.
- Topics, capstone, and independent study courses must be in the cybersecurity area and approved by the cybersecurity minor curriculum committee.

Course	Title	Credits
CSC 3010	Overview of Cybersecurity	3
	Algorithms & Data Structures	8
CSC 1300	Discrete Structures	3
	Core Cybersecurity Electives	9
	Cybersecurity Networks Course	3

Algorithms & Data Structures

Elective Credits 8

Students select from either Option A or Option B below.

Option A

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4
CSC 1052	Algorithms & Data Struc II	4

Option B

Course	Title	Credits
ECE 1260	EGR Prog and Applic	3
ECE 1261	EGR Prog and Applic Lab	1
ECE 2160	C++ Algorithms & Data Struct	3
ECE 2161	C++ Algorithms&Data Struct 1 Lab	

Core Cybersecurity Electives

Elective Credits 9

Select three courses which have the Cybersecurity minor elective attribute [CYBE].

- Topics courses with distinct content may be repeated for additional credit.
- Student can request permission from the Cybersecurity committee to use other courses related to computing as an elective.

Cybersecurity Networks Course

Elective Credits 3

Select one course from those listed below.

Course	Title	Credits
CSC 4900	Networks and Security	3
ECE 3180	Computer Networks	3
ECE 3476	Computer and Network Security	3

Criminology

Criminology Major

Chair: Allison Ann Payne, Ph.D.

Program Director: Heidi Grundetjern, Ph.D.

Office Location: 204 Saint Augustine Center

Telephone: (610) 519-4786

[Website](#)

About

The Criminology major is an interdisciplinary program designed to provide students with an understanding of the causes, social functions, nature and application of criminal law, and

societal reactions to criminal law. Criminologists believe that people's actions are strongly influenced by the conditions and situations in which they live, work, and play. Everybody makes decisions, but we recognize and study how social structures and institutions affect and constrain those decisions. Our goal as researchers is to expose and analyze the impacts of those circumstances on human decisions, societies, and opportunities. Methodologically, we incorporate multiple perspectives and analytical approaches to help create a more holistic understanding of our society. Rather than a technical program which focuses on applied skills, our program emphasizes the justice component. Our mission as teachers is to empower students to think critically and rigorously about individuals and societies. Through our diverse offerings on local, regional, national and global social processes, we strive to create more complete human beings with a keen sense of humanity, social justice, and appropriate social policy.

Program [Criminology](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (33 credits)

The Major consists of 33 credits. One of the Criminology electives for the Major can be satisfied by an internship for credit with approval from the Program Director, provided that the student has at least 15 credits toward the Major.

Program Notes:

- A student taking an internship in a field setting in the second semester of their junior year or during their senior year should consult with the Program Director.

Course	Title	Credits
CRM 1001	Introduction to Criminology	3
CRM 5100	Criminological Theory	3
SOC 5300	Data Analysis-Social Scientist	3
SOC 5400	Research Methods SocialScience	3
CRM 6500	Senior Seminar	3
	CRM B.A. Electives	15
	SOC Elective for CRM B.A.	3

Core Curriculum Requirements (38 credits)

Criminology Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (51 credits)

Students with a Criminology primary major have fifty-one (51) required free elective credits.

Degree Credit Summary

- **Major Credits:** 33 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 51 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Criminology as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

CRM B.A. Electives

Elective Credits 15

Criminology Electives (15 cr) – Select 5 Classes from CRM 1000:7000 (excepting those courses already on the required list), SOC 2200, SOC 3300, or any course with the CRM attribute

SOC Elective for CRM B.A.

Elective Credits 3

Sociology Elective (3 cr) – Select 1 Class from SOC 1000:9999 except SOC 5000, 5050, 5100, 5300, 5400, 6500.

Criminology Minor

Chair: Allison Ann Payne, Ph.D.

Program Director: Heidi Grundetjern, Ph.D.

Office Location: 204 Saint Augustine Center

Telephone: (610) 519-4786

[Website](#)

About

Criminology an interdisciplinary program designed to provide students with an understanding of the causes, social functions, nature and application of criminal law, and societal reactions to criminal law. Criminologists believe that people's actions are strongly influenced by the conditions and situations in which they live, work, and play. Everybody makes decisions, but we recognize and study how social structures and institutions affect and constrain those decisions. Our goal as researchers is to expose and analyze the impacts of those circumstances on human decisions, societies, and opportunities. Methodologically, we incorporate multiple perspectives and analytical approaches to help create a more holistic understanding of

our society. Rather than a technical program which focuses on applied skills, our program emphasizes the justice component. Our mission as teachers is to empower students to think critically and rigorously about individuals and societies. Through our diverse offerings on local, regional, national and global social processes, we strive to create more complete human beings with a keen sense of humanity, social justice, and appropriate social policy.

Program [Criminology](#)
Degree Type Minor

MINOR: Criminology (15 credits)

A Minor is open to all students and requires 5 courses and 15 credits. Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the Minor. Minors cannot receive Criminology credit for an internship.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Only one course may be transferred from another university.

Course	Title	Credits
CRM 1001	Introduction to Criminology	3
	CRM Minor Electives	12

CRM Minor Electives

Elective Credits 12

Criminology Electives (12 cr) – Select 4 Classes from CRM 1000:7000 SOC 2200, SOC 3300, or any course with the CRM attribute except CRM 5100, CRM 6500, SOC 1500, SOC 5300, SOC 5400

Department Chemistry and Biochemistry

The Department of Chemistry and Biochemistry at Villanova University offers masters and

bachelors degrees, including an American Chemical Society accredited degree program for undergraduates. Our faculty actively conduct research in diverse areas such as environmental chemistry, protein biochemistry, fuel cell research, and computational chemistry. We recognize that undergraduate research provides a unique opportunity to work closely alongside a faculty mentor, gaining an experience that extends far beyond typical classroom learning, and we encourage all undergraduates to participate in undergraduate research.

Chemistry Major

Chair: Daniel Kraut, Ph.D.
 Office Location: Mendel Science Center Rm. 215A
 Telephone: (610) 519-4840
[Website](#)

About

The Department of Chemistry at Villanova University offers masters and bachelors degrees, including an American Chemical Society accredited degree program for undergraduates. Our faculty actively conduct research in diverse areas such as environmental chemistry, protein biochemistry, fuel cell research, and computational chemistry. We recognize that undergraduate research provides a unique opportunity to work closely alongside a faculty mentor, gaining an experience that extends far beyond typical classroom learning, and we encourage all undergraduates to participate in undergraduate research.

Program [Department Chemistry and Biochemistry](#)
Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Required Major Courses (68 credits)

The Chemistry major, certified by the American Chemical Society, provides comprehensive classroom and laboratory training in all areas of chemistry. Students receive extensive training in laboratory techniques using modern chemical instrumentation.

Course	Title	Credits
CHM 1000	Profesl Development Sem	1
CHM 1002	First Year Prof Devlp Seminar	1
CHM 1311	Inorganic Chemistry I	3
CHM 1301	Inorganic Chemistry Lab I	2
CHM 1512	Quantitative Analysis	3
CHM 1502	Quant Anal Lab	2
CHM 3211	Organic Chemistry I	3
CHM 3201	Organic Chemistry Lab I	2
CHM 3212	Organic Chemistry II	3
CHM 3202	Organic Chemistry Lab II	2
CHM 3311	Inorganic Chem II	3
CHM 3301	Inorganic Chem Lab II	2
CHM 3413	Molecular Thermodynamics	3
CHM 3405	Physical Chem Lab II	2
CHM 3412	Quantum Chemistry	3
CHM 3404	Physical Chem Lab I	2
CHM 3511	Instrumental Analysis	3
CHM 3501	Instrumental Analysis Lab	2
	CHM 4611 or 4610: Biochemistry	3
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
PHY 2410	University Phy:Mechanics	3
PHY 2411	Lab: Mechanics	1
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2413	Lab:Elec & Magnetism	1
	CHM Elective	6
	CHM Lab Elective	1

Core Curriculum Requirements (33 credits)

Chemistry Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
Language Requirement		
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Diversity Requirement (2 courses)	

Free Elective Requirement (21 credits)

Students with a Chemistry primary major have twenty-one (21) required free elective credits.

Degree Credit Summary

- **Major Credits:** 68 credits
- **Core Credits:** 33 credits
- **Free Electives:** 21 credits
- **Total Credits:** 122

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Chemistry as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

CHM 4611 or 4610: Biochemistry

Elective Credits 3

Choose 1:

Course	Title	Credits
CHM 4611	Survey of Biochemistry	3

CHM Elective

Elective Credits 6

Choose 2 Chemistry courses level 3000 or above.

CHM Lab Elective

Elective Credits 1

Choose 1 Chemistry lab elective.

Chemistry with Biochemistry Concentration Major

Chair: Daniel Kraut, Ph.D.
Office Location: Mendel Science Center Rm. 215A
Telephone: (610) 519-4840
[Website](#)

About

The Department of Chemistry at Villanova University offers masters and bachelors degrees, including an American Chemical Society accredited degree program for undergraduates. Our faculty actively conduct research in diverse areas such as environmental chemistry, protein biochemistry, fuel cell research, and computational chemistry. We recognize that

undergraduate research provides a unique opportunity to work closely alongside a faculty mentor, gaining an experience that extends far beyond typical classroom learning, and we encourage all undergraduates to participate in undergraduate research.

Program [Department Chemistry and Biochemistry](#)

Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Required Major Courses (81 credits)

Course	Title	Credits
CHM 1000	Profesl Development Sem	1
CHM 1002	First Year Prof Devlp Seminar	1
CHM 1311	Inorganic Chemistry I	3
CHM 1301	Inorganic Chemistry Lab I	2
CHM 3311	Inorganic Chem II	3
CHM 3301	Inorganic Chem Lab II	2
CHM 1512	Quantitative Analysis	3
CHM 1502	Quant Anal Lab	2
CHM 3211	Organic Chemistry I	3
CHM 3201	Organic Chemistry Lab I	2
CHM 3212	Organic Chemistry II	3
CHM 3202	Organic Chemistry Lab II	2
CHM 3412	Quantum Chemistry	3
CHM 3404	Physical Chem Lab I	2
CHM 3413	Molecular Thermodynamics	3
CHM 3405	Physical Chem Lab II	2
CHM 3511	Instrumental Analysis	3
CHM 3501	Instrumental Analysis Lab	2
CHM 4621	Biochemistry I: Structure	3
CHM 4603	Biochem Tech. and Pract.	1
CHM 4622	Biochemistry II:Metabolism	3
CHM 4604	Biochem Tech. and Pract II	1
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
PHY 2410	University Phy:Mechanics	3
PHY 2411	Lab: Mechanics	1
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2413	Lab:Elec & Magnetism	1
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
	Molecular Based Biology Course	4
	Biochemistry Chemistry Elective	3

Core Curriculum Requirements (33 credits)

Chemistry with Biochemistry Concentration Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (7 credits)

Students with a Chemistry with Biochemistry concentration primary major have seven (7) required free elective credits.

Degree Credit Summary

- **Major Credits:** 82 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 7 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare biochemistry as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Molecular Based Biology Course

Elective Credits 4

Select one course from this list.

Course	Title	Credits
BIO 3351	Genetics	4
BIO 3595	General Microbiology	4
BIO 4205	Cell Biology	4
BIO 4505	Molecular Biology	4

Biochemistry Chemistry Elective

Elective Credits 3

Choose any 3-credit course with the CHM subject code numbered 3000:9999.

Chemistry Minor

Chair: Daniel Kraut, Ph.D.

Office Location: Mendel Science Center Rm. 215A

Telephone: (610) 519-4840

[Website](#)

About

Students must complete a year of general chemistry (or equivalent), a year of organic chemistry, two additional chemistry courses with associated laboratories, and one additional chemistry course (7 courses total). All course prerequisites and co-requisites apply¹. Biochemistry majors need to complete 2 CHM courses at the 3000 level or above that are not otherwise required for the biochemistry degree to fulfill the requirements for the Chemistry minor.

1. Or with approval of the Chemistry Advisor.

Program Department Chemistry and
Biochemistry
Degree Type Minor

MINOR: Chemistry (29 credits)

Program notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
	General Chemistry Requirement	10
	Organic Chemistry Requirement	8-10
	CHM Elective & Lab	8-10
	Upper-division Chemistry Course	3

General Chemistry Requirement

Elective Credits 10

1 year of general chemistry & Lab. Choose one sequence.

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
Course	Title	Credits
CHM 1311	Inorganic Chemistry I	3
CHM 1301	Inorganic Chemistry Lab I	2
CHM 1512	Quantitative Analysis	3
CHM 1502	Quant Anal Lab	2
Course	Title	Credits
CHM 1611	Gen'l Chem I for BIOC Majors	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1

Organic Chemistry Requirement

Elective Credits 8-10

Choose one sequence.

Course	Title	Credits
CHM 2211	Organic Chemistry I	3
CHM 2201	Organic Chemistry Lab I	1
CHM 2212	Organic Chemistry II	3
CHM 2202	Organic Chemistry Lab II	1
Course	Title	Credits
CHM 3211	Organic Chemistry I	3
CHM 3201	Organic Chemistry Lab I	2
CHM 3212	Organic Chemistry II	3
CHM 3202	Organic Chemistry Lab II	2

CHM Elective & Lab

Elective Credits 8-10

Additional Laboratory Chemistry requirement (choose two of the following lecture/lab combos)

Choice A

Course	Title	Credits
CHM 3311	Inorganic Chem II	3
CHM 3301	Inorganic Chem Lab II	2

Choice B

Course	Title	Credits
CHM 3413	Molecular Thermodynamics	3
CHM 3405	Physical Chem Lab II	2

Choice C

Course	Title	Credits
CHM 4622	Biochemistry II: Metabolism	3
CHM 4604	Biochem Tech. and Pract II	1

Choice D

Only one of these two options can be used: CHM 3412 and 3404 OR CHM 3416 and 3402.

Course	Title	Credits
CHM 3412	Quantum Chemistry	3
CHM 3404	Physical Chem Lab I	2
CHM 3416	Physical Chem for Engineers	3
CHM 3402	Physical Chem Lab II	1

Choice E

Only one of these two options can be used: CHM 3511 and 3501 OR CHM 3514 and 3503.

Course	Title	Credits
CHM 3511	Instrumental Analysis	3
CHM 3501	Instrumental Analysis Lab	2
CHM 3514	Bioanalytical Chemistry	3
CHM 3503	Bioanalytical Chem Lab	1

Choice F

Students must take at least one lecture course and one lab course from this list.

Course	Title	Credits
CHM 4611	Survey of Biochemistry	3
CHM 4601	Survey Biochemistry Lab	1
CHM 4621	Biochemistry I: Structure	3
CHM 4603	Biochem Tech. and Pract.	1

Upper-division Chemistry Course

Elective Credits 3

One additional upper-division chemistry course (with approval of the Chemistry Advisor)

- One additional course with lab from other requirements.
- CHM 3417: Biophysical Chemistry*
- CHE 5633: Nanomaterials & Surface Science
- Any 4000 level course
- Any 7000 level or higher course (*Except* 7693 or 8662)

**Cannot be used in combination with other Physical Chemistry courses and laboratories.*

Economics

Chair: Erasmus Kersting, Ph.D.
Associate Chair: Mary Kelly, Ph.D.
Office Location: 2014 Bartley Hall
Telephone: 610-519-4370
[Website](#)

About

Economics is the science that studies the behavior of social systems – such as markets, legislatures, corporations, and families – in

allocating scarce resources. It is a discipline which brings together the diverse worlds of business, social science, and public policy. The study of economics is an excellent preparation leading to many career options. Economics majors are well positioned to be the future managers and leaders in both the private and public sectors. The study of economics at the undergraduate level provides a solid basis for graduate study in the social sciences and for professional study in business administration, law, public administration, and in the health sciences.

Economics Major

Chair: Erasmus Kersting, Ph.D.
Associate Chair: Mary Kelly, Ph.D.
Office Location: 2014 Bartley Hall
Telephone: 610-519-4370
[Website](#)

About

Economics addresses how individuals and firms make decisions in a world of scarcity and uncertainty while also presenting opportunities to learn how to analyze the performance and interaction of national economies. The curriculum is designed to promote the development of quantitative skills as well as written and verbal communication abilities, so students are equipped to critically examine the effects of economic factors on market participants in the private and public sectors. Because of the growing complexity of the global economy, there is an increase in the demand for individuals who can provide and communicate quantitative analysis of economic variables and their effects on forecasting sales, managing costs, allocating budgets, and choosing investment options. Economics graduates find employment in private industry, consulting, think tanks and policy institutes, the public sector, and academia. Economics is also a perfect preparation for Law School.

Program [Economics](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Students are required to earn an average grade of B or higher between ECO 1001 & 1002 to declare the economics major. Students not meeting these requirements should discuss their options with the Chair/Associate Chair of the Economics Department.

Required Major Courses (36 credits)

Program Notes:

- Students have the ability to earn a specialization certificate. Please contact your advisor or the chairperson for more information.

Course	Title	Credits
	Calculus	3-4
	Statistics	3-4
ECO 1001	Intro to Micro	3
ECO 1002	Intro to Macro	3
ECO 2101	Macroeconomic Theory	3
ECO 2102	Microeconomic Theory	3
ECO 3137	Intro to Econometrics	3
	Economics Capstone Course	3
	ECO Electives for B.A.	12

Concentrations

Students may choose one of the following concentrations:

Course	Title	Credits
	International Concentration	
	Public Policy Concentration	
	Quantitative & Business Concentration	

Core Curriculum Requirements (35 credits)

Economics Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (51 credits)

Students with a Economics primary major have fifty-one (51) required free elective credits.

Degree Credit Summary

- **Major Credits:** 36 credits
- **Core Credits:** 35 credits
- **Free Electives Credits:** 51 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Economics as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Calculus

Elective Credits 3-4

Select one course from the list below.

Course	Title	Credits
MAT 1312	Biocalculus	4
MAT 1320	Calculus I for Liberal Arts	3
MAT 1400	Business Calculus	4
MAT 1500	Calculus I	4

Statistics

Elective Credits 3-4

Select one course from the list below.

Course	Title	Credits
STAT 1235	Intro Statistics II	3
STAT 1313	Statistics for Life Sciences	3
STAT 1430	Business Statistics	4
STAT 4310	Stat Methods	3

Economics Capstone Course

Elective Credits 3

Select 1 course from ECO 4000:9999 (3 cr).

- As a wide array of courses may satisfy this requirement, prerequisites include ECO 2101, 2102, and/or 3137.

ECO Electives for B.A.

Elective Credits 12

Select 4 courses from ECO 3000:9999 or any course with the ECO attribute worth 3 credits (12 cr).

International Concentration

Choose four electives, one of which must be at the 4000-level. Courses should be selected from the list below, or carry the EINT attribute.

- The 4000-level course counts as the student's capstone course.

Course	Title	Credits
ECO 3108	Global Political Econ	3
ECO 3109	International Economics	3
ECO 3114	Environmental Economics	3
ECO 3127	Development Economics	3
ECO 3133	Economics of Healthcare	3
ECO 4203	Pol Eco of Intl Financial Inst	3
ECO 4209	International Macroeconomics	3

Public Policy Concentration

Choose four electives, one of which must be at the 4000-level. Courses should be selected from the list below, or carry the EPP attribute.

- The 4000-level course counts as the student's capstone course.

Course	Title	Credits
ECO 3107	FED Challenge	3
ECO 3108	Global Political Econ	3
ECO 3111	Hist of Economic Thought	3
ECO 3114	Environmental Economics	3
ECO 3123	Labor Economics	3
ECO 3125	Industr Org & Public Pol	3
ECO 3133	Economics of Healthcare	3

Quantitative & Business Concentration

Choose four electives, one of which must be at the 4000-level. Courses should be selected from the list below, or carry the EQB attribute.

- The 4000-level course counts as the student's capstone course.

Course	Title	Credits
ECO 3106	Econ of Money & Banking	3
ECO 3108	Global Political Econ	3
ECO 3118	Women in the Economy	3
ECO 3120	Financial Economics	3
ECO 3124	Economics of Sports	3
ECO 3130	Programming for Econ & Fin	3
ECO 3138	Game Theory	3
ECO 4207	Economics of Risk&Uncertainty	3

Economics Minor

Chair: Erasmus Kersting, Ph.D.
 Associate Chair: Mary Kelly, Ph.D.
 Office Location: 2014 Bartley Hall
 Telephone: 610-519-4370
[Website](#)

About

Economics addresses how individuals and firms make decisions in a world of scarcity and uncertainty while also presenting opportunities to learn how to analyze the performance and interaction of national economies. The curriculum is designed to promote the development of quantitative skills as well as written and verbal communication abilities, so students are equipped to critically examine the effects of economic factors on market participants in the private and public sectors. Because of the growing complexity of the global economy, there is an increase in the demand for individuals who can provide and communicate quantitative analysis of economic variables and their effects on forecasting sales, managing costs, allocating budgets, and choosing investment options. Economics graduates find employment in private industry, consulting, think tanks and policy institutes, the public sector, and academia. Economics is also a perfect preparation for Law School.

Program [Economics](#)
Degree Type Minor

MINOR: Economics (18 credits)

A minor is open to all students and requires 6 courses and 18 credits.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Calculus (which can be used to satisfy the core) is a prerequisite for ECO 2101 and ECO 2102.

Course	Title	Credits
ECO 1001	Intro to Micro	3
ECO 1002	Intro to Macro	3
ECO 2101	Macroeconomic Theory	3
ECO 2102	Microeconomic Theory	3
ECO Electives for Minor		6

ECO Electives for Minor

Elective Credits 6

Two (2) Economics elective courses above ECO 3000.

Education and Counseling

Chair: Teresa G. Wojcik, Ph.D.
 Office Location: 302 Saint Augustine Center
 Telephone: 610-519-8103
[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Education Major with Teaching Biology Concentration

Chair: Teresa G. Wojcik, Ph.D.
Program Director: Madora Soutter, Ed.D.
Office Location: 302 Saint Augustine Center
Telephone: 610-519-8103
[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (124 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (46 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- *PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One English is taken as part of the Core.*
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
	MAT 1314 or MAT 1505	3-4
	Advanced English Elective for EDU BIO	3

Teaching Biology Concentration (48 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with a biology emphasis fulfill their core math, core natural science, and core social science with courses taken in the major.

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
BIO 3055	Human Physiology	4
BIO 3351	Genetics	4
BIO 3255	Evolutionary Ecology	4
BIO 3595	General Microbiology	4
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
MSE 2206	BIO:Biotechnology in Our Soc.	4
	MAT 1312 or MAT 1500	4
	Electives for Education BIO Concentration	11-12

Core Curriculum Requirement (27 credits)

Education Majors with the Teaching Biology Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)
- Social Science (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (3 credits)

Students with an Education primary major with a concentration in Teaching Biology have three (3) required free elective credits.

Degree Credit Summary

- **Major Credits:** 46-47 credits
- **Concentration:** 48-49 credits
- **Core Credits:** 27 credits
- **Free Electives Credits:** 3 credits
- **Total Required Credits:** 124-126 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

MAT 1314 or MAT 1505

Elective Credits 3-4

- MAT 1312 and MAT 1314 must be taken as a sequence.
- MAT 1500 and MAT 1505 must be taken as a sequence.

Course	Title	Credits
MAT 1314	Modeling for the Life Sciences	3
MAT 1505	Calculus II	4

Advanced English Elective for EDU BIO

Elective Credits 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

MAT 1312 or MAT 1500

Elective Credits 4

Biochemistry Majors:

MAT 1312 may only count toward the requirements of the biochemistry major with permission of the program director.

CBN Majors:

- MAT 1312 and MAT 1314 must be taken as a sequence.
- MAT 1500 and MAT 1505 must be taken as a sequence.

Course	Title	Credits
MAT 1312	Biocalculus	4
MAT 1500	Calculus I	4

Electives for Education BIO Concentration

Elective Credits 11-12

Choose three from the options below.

Course	Title	Credits
BIO 3485	Marine Biology	4
	CHM 2211 & 2201	4
GEV 3580	Natural Res and Conservation	3
	PHY 1100 & 1101	4
MSE 2200	BIO:Behavioral Bio of Animals	4
MSE 2201	BIO:How Microbes Rule World	4
MSE 2202	BIO:Biology and Politics	4
MSE 2203	BIO:Heredity & Human Affairs	4
MSE 2204	BIO:How The Body Works	4
MSE 2205	BIO:Biodiversity& Conservation	4
MSE 2206	BIO:Biotechnology in Our Soc.	4
MSE 2207	BIO:Organisms in Changing Envr	4
MSE 2208	BIO:Cancer Chronicles	4

Education Major with Teaching Chemistry Concentration

Chair: Teresa G. Wojcik, Ph.D.

Program Director: Madara Soutter, Ed.D.

Office Location: 302 Saint Augustine Center

Telephone: 610-519-8103

[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (48 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- *PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One English is taken as part of the Core Curriculum.*
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
MAT 1505	Calculus II	4
	Advanced English Elective for EDU CHM	3

Teaching Chemistry Concentration (32-33 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with a chemistry emphasis fulfill their core math, core natural science, and core social science with courses taken in the major.

Course	Title	Credits
	CHM 1151 & 1103 or CHM 1311 & 1301	5
	CHM 1152 & 1104 or CHM 1512 & 1502	5
	CHM 2211 & 2201	4
	CHM 2212 & 2202	4
	Chemistry Elective	3-4
MAT 1500	Calculus I	4
	MSE Chemistry Elective	8

Core Curriculum Requirement (27 credits)

Education Majors with the Teaching Chemistry Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)
- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (14-15 credits)

Students with a Education primary major with a concentration in Teaching Chemistry have fourteen or fifteen (14-15) required free elective credits (dependent on number taken in teaching concentration).

Degree Credit Summary

- **Major Credits:** 48 credits
- **Concentration:** 32-33 credits
- **Core Credits:** 27 credits
- **Free Electives Credits:** 14-15 credits
- **Total Required Credits:** 122 Credits

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

Advanced English Elective for EDU CHM

Elective Credits 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

CHM 1151 & 1103 or CHM 1311 & 1301

Elective Credits 5

Select one sequence of courses from the options below.

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
Course	Title	Credits
CHM 1311	Inorganic Chemistry I	3
CHM 1301	Inorganic Chemistry Lab I	2

CHM 1152 & 1104 or CHM 1512 & 1502

Elective Credits 5

Select one sequence of courses from the options below.

Course	Title	Credits
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
Course	Title	Credits
CHM 1512	Quantitative Analysis	3
CHM 1502	Quant Anal Lab	2

CHM 2211 & 2201

Elective Credits 4

Course	Title	Credits
CHM 2211	Organic Chemistry I	3
CHM 2201	Organic Chemistry Lab I	1

CHM 2212 & 2202

Elective Credits 4

Course	Title	Credits
CHM 2212	Organic Chemistry II	3
CHM 2202	Organic Chemistry Lab II	1

Chemistry Elective

Elective Credits 3-4

One Chemistry course (with lab if applicable).

MSE Chemistry Elective

Elective Credits 8

Choose two MSE Chemistry courses (with lab if applicable).

Education Major with Teaching English Concentration

Chair: Teresa G. Wojcik, Ph.D.

Program Director: Madara Soutter, Ed.D.

Office Location: 302 Saint Augustine Center

Telephone: 610-519-8103

[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in

Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (123 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (43 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- *PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One Math is taken in the Core Curriculum.*
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4281	Meth English Sec School	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
	MAT, STAT or CSC elective for EDU ENG	3

Teaching English Concentration (36 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with an English emphasis fulfill their core social science with courses taken in the major.

Course	Title	Credits
	ENG 2000-2070	6
ENG 2250	Ways of Reading:Lit Analysis	3
ENG 2400	Classical Hero in Ancient Lit	3
ENG 3250	Shakespeare	3
ENG 3001	Foundational Lit in ENG 1	3
	ENG 4001 or ENG 4000	3
	ENG 4601 or ENG 4600	3
EDU 3220	Literature in Classrooms	3
COM 1100	Public Speaking	3
	African American Literature, EDU B.A.	3
	Women's Literature, EDU B.A.	3

Core Curriculum Requirement (38 credits)

Education Majors with the Teaching English Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (6 credits)

Students with a Education primary major with a concentration in Teaching English have six (6) required free elective credits.

Degree Credit Summary

- **Major Credits:** 43 credits
- **Concentration:** 36 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 6 credits
- **Total Required Credits:** 123 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

MAT, STAT or CSC elective for EDU ENG

Elective Credits 3

- Take one three credit (3 cr) MAT 1000:9999, STAT 1000:9999, or CSC 1000:9999.

ENG 2000-2070

Elective Credits 6

Select two ENG courses between 2000-2070.

ENG 4001 or ENG 4000

Elective Credits 3

Select 1 Class.

Course	Title	Credits
ENG 4001	Major American Writers I	3
ENG 4000	American Literary Trad 1	3

ENG 4601 or ENG 4600

Elective Credits 3

Select one class.

Course	Title	Credits
ENG 4601	Major American Writers II	3
ENG 4600	Amer Literary Trad 2	3

African American Literature, EDU B.A.

Elective Credits 3

Select one class.

Course	Title	Credits
ENG 4003	African-American Lit Trad 1	3
ENG 4602	African American Lit Trad 2	3
ENG 4610	African American Poetry	3
ENG 4623	African American Novel	3
ENG 4632	African American Drama	3
ENG 4603	African American Short Story	3
ENG 4618	Harlem Renaissance	3
ENG 4646	Race & Ethnicity: Amer Novel	3

Women's Literature, EDU B.A.

Elective Credits 3

Select one class

Course	Title	Credits
ENG 2300	Women in Literature	3
ENG 3622	Virginia Woolf	3

Education Major with Teaching French Concentration

Chair: Teresa G. Wojcik, Ph.D.

Program Director: Madara Soutter, Ed.D.

Office Location: 302 Saint Augustine Center

Telephone: 610-519-8103

[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (123 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (46 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- *PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One Math and one English is taken in the Core Curriculum.*
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4282	Meth Fgn Lang Sec School	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
	MAT, STAT or CSC elective for EDU FRE	3
	Advanced English Elective for EDU FRE	3

Teaching French Concentration (36 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with a French emphasis fulfill their core social science with courses taken in the major.

Course	Title	Credits
FFS 1121	Intermediate French I	3
FFS 1122	Intermediate French II	3
FFS 1131	Conversation and Composition I	3
FFS 1132	Conversation & Composition II	3
	FFS 1138 or FFS 1140	3
FFS 2220	Lit and Culture of France	3
FFS 2221	Lit/Cult Francophone World	3
FFS 2075	Introduction to French Cinema	3
FFS 3925	Paris, Capital of the 19th-C	3
FFS 3970	Research Seminar	3
	French Electives for EDU B.A. Concentration	6

Core Curriculum Requirement (38 credits)

Education Majors with the Teaching French Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Language
- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (3 credits)

Students with an Education primary major with a concentration in Teaching French have three (3) required free elective credits.

Degree Credit Summary

- **Major Credits:** 46 credits
- **Concentration:** 36 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 3 credits
- **Total Required Credits:** 123 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

MAT, STAT or CSC elective for EDU FRE

Elective Credits 3

- Take one three credit (3 cr) MAT 1000:9999, STAT 1000:9999, or CSC 1000:9999.

Advanced English Elective for EDU FRE

Elective Credits 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

FFS 1138 or FFS 1140

Elective Credits 3

Course	Title	Credits
FFS 1138	Advanced Grammar	3
FFS 1140	Writing & Stylistics in French	3

French Electives for EDU B.A. Concentration

Elective Credits 6

Select 2 French (FRE) classes at the 3000-level.

Education Major with Teaching Latin Concentration

Chair: Teresa G. Wojcik, Ph.D.

Program Director: Madara Soutter, Ed.D.

Office Location: 302 Saint Augustine Center

Telephone: 610-519-8103

[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in

Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (123 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (46 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One Math and one English is taken in the Core Curriculum.
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4282	Meth Fgn Lang Sec School	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
	MAT, STAT or CSC elective for EDU LAT	3
	Advanced English Elective for EDU LAT	3

Teaching Latin Concentration (36 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with a Latin emphasis fulfill their core social science with courses taken in the major.

Course	Title	Credits
LAT 1111	Introductory Latin I	3
LAT 1112	Introductory Latin II	3
LAT 1121	Intermediate Latin I	3
LAT 1122	Intermediate Latin II	3
	Latin 3001 courses	12
	Classical or Greek Electives for Latin, EDU B.A.	9
CLA 6001	Senior Classics Capstone	3

Core Curriculum Requirement (38 credits)

Education Majors with the Teaching Latin Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Language
- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Diversity Requirement (2 courses)	

Free Elective Requirement (3 credits)

Students with an Education primary major with a concentration in Teaching Latin have three (3) required free elective credits.

Degree Credit Summary

- **Major Credits:** 46 credits
- **Concentration:** 36 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 3 credits
- **Total Required Credits:** 123 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

MAT, STAT or CSC elective for EDU LAT

Elective Credits 3

- Take one three credit (3 cr) MAT 1000:9999, STAT 1000:9999, or CSC 1000:9999.

Advanced English Elective for EDU LAT

Elective Credits 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

Latin 3001 courses

Elective Credits 12

Students will take 4 instances of Latin 3001, each on a different author.

- Latin 3001, Author #1
- Latin 3001, Author #2
- Latin 3001, Author #3

- Latin 3001, Author #4

Classical or Greek Electives for Latin, EDU B.A.

Elective Credits 9

Select any 3 courses from either CLA 1000:9999 or GRK 1000:9999.

Education Major with Teaching Mathematics Concentration

Chair: Teresa G. Wojcik, Ph.D.
Program Director: Madora Soutter, Ed.D.
Office Location: 302 Saint Augustine Center
Telephone: 610-519-8103
[Website](#)

About

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Program [Education and Counseling](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (125 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (43 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One English is taken as part of the Core Curriculum.
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4283	Meth Math Sec School	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
	Advanced English Elective for EDU MAT	3

Teaching Mathematics Concentration (41 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with a Mathematics emphasis fulfill their core math and social science with courses taken in the major.

Course	Title	Credits
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
MAT 2500	Calculus III	4
MAT 2600	Mathematical Reasoning & Proof	3
MAT 2705	Diff Equation with Linear Alg	4
MAT 3300	Advanced Calculus	3
MAT 3400	Linear Algebra	3
MAT 3500	Modern Algebra I	3
MAT 3930	History of Mathematics	3
STAT 4310	Stat Methods	3
MAT 5110	Topics in Geometry	3
CSC 1051	Algorithms & Data Struc I	4

Core Curriculum Requirement (35 credits)

Education Majors with the Teaching Mathematics Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (6 credits)

Students with an Education primary major with a concentration in Teaching Mathematics have six (6) required free elective credits.

Degree Credit Summary

- **Major Credits:** 43 credits
- **Concentration:** 41 credits
- **Core Credits:** 35 credits
- **Free Electives Credits:** 6 credits
- **Total Required Credits:** 125 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

Mathematics Double Major

Students majoring in Education with a Mathematics concentration may double major in Mathematics by taking an additional nine (9) credits in the following areas:

- Upper-Level Analysis Course (3 cr)
- MAT 3000+ Elective Course (3 cr)
- MAT 5900 Seminar in Mathematics (3 cr)

**Please check with the Mathematics department to make sure the above list has not changed.*

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

Advanced English Elective for EDU MAT

Elective Credits 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

Education Major with Teaching Physics Concentration

Chair: Teresa G. Wojcik, Ph.D.

Program Director: Madara Soutter, Ed.D.

Office Location: 302 Saint Augustine Center

Telephone: 610-519-8103

[Website](#)

About

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department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (47 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- *PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One English is taken as part of the Core Curriculum.*
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
MAT 1505	Calculus II	4
	Advanced English Elective for EDU PHY	3

Teaching Physics Concentration (36 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with a Physics emphasis fulfill their core math and social science with courses taken in the major.

Course	Title	Credits
	PHY 1100 & 1101	4
MAT 1500	Calculus I	4
MAT 2705	Diff Equation with Linear Alg	4
	PHY 2410 & 2411	4
	PHY 2412 & 2413	4
PHY 3200	Thermo, Optics and Waves	3
	PHY 3400 & 4801	5
	MSE 2602 & 2652	4
	MSE 2603 & 2653	4

Core Curriculum Requirement (27 credits)

Education Majors with the Teaching Physics Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Sciences (8 cr)
- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (12 credits)

Students with an Education primary major with a concentration in Teaching Physics have twelve (12) required free elective credits.

Degree Credit Summary

- **Major Credits:** 47 credits
- **Concentration:** 36 credits
- **Core Credits:** 27 credits
- **Free Electives Credits:** 12 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

Advanced English Elective for EDU PHY

Elective Credits 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

PHY 1100 & 1101

Elective Credits 4

Course	Title	Credits
PHY 1100	General Physics I	3
PHY 1101	General Physics I Lab	1

PHY 2410 & 2411

Elective Credits 4

Course	Title	Credits
PHY 2410	University Phy:Mechanics	3
PHY 2411	Lab: Mechanics	1

PHY 2412 & 2413

Elective Credits 4

Course	Title	Credits
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2413	Lab:Elec & Magnetism	1

PHY 3400 & 4801

Elective Credits 5

Course	Title	Credits
PHY 3400	Modern Physics	3
PHY 4801	Experimental Physics I	2

MSE 2602 & 2652

Elective Credits 4

Course	Title	Credits
MSE 2602	PHY:40% Solution: Light/ Sound	3
MSE 2652	PHY:40% Solution Lab	1

MSE 2603 & 2653

Elective Credits 4

Course	Title	Credits
MSE 2603	PHY:Big Bang: Forces/ Particles	3
MSE 2653	PHY: Big Bang Lab	1

Education Major with Teaching Social Studies Concentration

Chair: Teresa G. Wojcik, Ph.D.

Program Director: Madara Soutter, Ed.D.

Office Location: 302 Saint Augustine Center

Telephone: 610-519-8103

[Website](#)

About

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order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (123 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (46 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- *PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One Math and one English is taken in the Core Curriculum.*
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4285	Meth Soc Stud Sec School	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
	Advanced English Elective for EDU SS	3
	MAT, STAT or CSC elective for EDU SS	3

Teaching Social Studies Concentration (39 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with a Social Studies emphasis fulfill their core history and social science with courses taken in the major.

Course	Title	Credits
	ECO 1001 or ECO 1002	3
GEV 1002	Geo. of a Globalizing World	3
	HIS 2000 or HIS 2001	3
PSC 1100	American Government	3
PSC 1200	International Relations	3
PSY 1000	General Psychology	3
	Pre-1750 European History for EDU SS	3
	EDU 2252 or EDU 3258 or EDU 3262	3
	GIS 2000 or CST 2100	3
	SOC 3600 or SOC 1000	3
	Women's History for EDU SS	3
	African American History, EDU B.A. for SS	3
	World History Elective for EDU SS	3

Core Curriculum Requirement (35 credits)

Education Majors with the Teaching Social Studies Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- History (3 cr)
- Social Sciences (6 cr)
- Either AAH 1002 or 1101 is preferred to meet the Fine Arts Core requirement.

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (3 credits)

Students with an Education primary major with a concentration in Teaching Social Studies have three (3) required free elective credits.

Degree Credit Summary

- **Major Credits:** 46 credits
- **Concentration:** 39 credits
- **Core Credits:** 35 credits
- **Free Electives Credits:** 3 credits
- **Total Required Credits:** 123 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

Advanced English Elective for EDU SS

Elective Credits 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

MAT, STAT or CSC elective for EDU SS

Elective Credits 3

- Take one three credit (3 cr) MAT 1000:9999, STAT 1000:9999, or CSC 1000:9999.

ECO 1001 or ECO 1002

Elective Credits 3

Select one (3 cr).

HIS 2000 or HIS 2001

Elective Credits 3

Select one (3 cr).

Course	Title	Credits
HIS 2000	Investigating U.S. History I	3
HIS 2001	Investigating US History II	3

Pre-1750 European History for EDU SS

Elective Credits 3

Select one class in pre-1750 European History from the list below.
(HIS 2530, 2532, 2536, and 2550 are also acceptable)

Course	Title	Credits
HIS 2410	Ancient Greeks and their World	3
HIS 2414	The Roman Empire	3
HIS 2420	Seven Wonders of Ancient World	3
HIS 2442	Sex & Gender Ancient World	3
HIS 2443	Cleopatra in History	3
HIS 2450	Archeology: Age of Pyramids	3
HIS 2451	Archaeology/Egypt's Golden Age	3
HIS 2498	Topics in Ancient History	3
HIS 2520	Byzantine Civilization	3
HIS 2531	Robin Hood: Myth & History	3
HIS 2534	The Renaissance	3
HIS 2535	The Reformation	3
HIS 2537	Rome: Emperors, Popes & Saints	3
HIS 2545	Women in Pre-Modern Europe	3
HIS 3014	Alexander the Great-Cleopatra	3

EDU 2252 or EDU 3258 or EDU 3262

Elective Credits 3

Select 1 course (3 cr).

Course	Title	Credits
EDU 2253	History of American Education	3
EDU 3258	Education & Society in 1960s	3
EDU 3262	Edu Pearl Harbor to Sputnik	3

GIS 2000 or CST 2100

Elective Credits 3

Select 1 course (3 cr).

SOC 3600 or SOC 1000

Elective Credits 3

Select one (3 cr).

Women's History for EDU SS

Elective Credits 3

Select 1 Class from the list below.
(HIS 2721 is also acceptable)

Course	Title	Credits
HIS 2296	History of American Women	3
HIS 2545	Women in Pre-Modern Europe	3
HIS 2565	Women in Modern Europe	3
HIS 2720	Women in the Middle East	3
HIS 3120	Infamous Medieval Women	3

African American History, EDU B.A. for SS

Elective Credits 3

Select 1 course (3 cr).

Course	Title	Credits
HIS 2291	African Amer His during Slaver	3
HIS 2292	African Amer His since Emancip	3

World History Elective for EDU SS

Elective Credits 3

Select one class from the list below.
(HIS 2320, 2721, 2810, 2820 are also acceptable)

Course	Title	Credits
HIS 2278	Native American History	3
HIS 2322	Colonial Latin America	3
HIS 2323	Revolutionary Latin America	3
HIS 2324	Contemp Lat Amer History	3
HIS 2338	Topics Latin Ameri Hist	3
HIS 2701	Hist Modern Middle East	3
HIS 2728	Top Middle Eastern Hist	3
HIS 2730	Emergence Modern Africa	3
HIS 2738	Topics African History	3
HIS 2812	History of Modern East Asia I	3
HIS 2813	Modern East Asia II	3
HIS 2821	China in Ware & Rev, 1895-1949	3
HIS 2822	Modern China, 1949-Present	3
HIS 2830	Modern Japan	3
HIS 2840	Cult. of East Asian Capitalism	3
HIS 2850	History of Modern South Asia	3
HIS 2852	Modern India and Pakistan	3
HIS 2868	Topics in Asian History	3

Education Major with Teaching Spanish Concentration

Chair: Teresa G. Wojcik, Ph.D.
Program Director: Madara Soutter, Ed.D.
Office Location: 302 Saint Augustine Center
Telephone: 610-519-8103
[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (123 credits)

To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math completed prior to the start of their junior year. Candidates for the major should apply as soon as possible and no later than sophomore year

Required Major Credits (46 credits + Concentration)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Program Notes:

- *PDE requires all Education Majors to take two Math and two English courses before the end of their sophomore year. This is part of the state certification requirement. One Math and one English is taken in the Core Curriculum.*
- Teacher certification is embedded within the B.A. program. [Visit this page to learn more.](#)

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 2300	Research Seminar in Education	3
EDU 3000	Prof. Development in Education	1
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3
EDU 4282	Meth Fgn Lang Sec School	3
EDU 4290	Philosophy of Education	3
EDU 3011	Pre-Practicum & Seminar 1	1
EDU 3012	Pre-Practicum & Seminar 2	1
EDU 3013	Pre-Practicum & Seminar 3	1
EDU 4291	Student Teaching	9
EDU 4292	Senior Seminar	3
	Advanced English Elective for EDU SPA	3
	MAT, STAT or CSC elective for EDU SPA	3

Teaching Spanish Concentration (36 credits)

Concentration Notes:

- Students must be a declared education major to have this concentration.
- Students in the education major with a Spanish emphasis fulfill their Social Science, and Language requirements with courses taken in the major.

Course	Title	Credits
SPA 1121	Intermediate Spanish I	3
SPA 1122	Intermediate Spanish II	3
SPA 1131	Conversation & Composition I	3
SPA 1132	Conversation & Composition II	3
	SPA 2138 or SPA 2140	3
SPA 2220	Literature & Culture of Spain	3
SPA 2221	Lit. & Cult. of Latin America	3
	Spanish Electives for EDU SPA	12
	Additional SPA elective or SPA 3970	3

Core Curriculum Requirement (38 credits)

Education Majors with the Teaching Spanish Concentration meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Language
- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Diversity Requirement (2 courses)	

Free Elective Requirement (3 credits)

Students with an Education primary major with a concentration in Teaching Spanish have three (3) required free elective credits.

Degree Credit Summary

- **Major Credits:** 46 credits
- **Concentration:** 36 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 3 credits
- **Total Required Credits:** 123 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

Advanced English Elective for EDU SPA

Elective Credits 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

MAT, STAT or CSC elective for EDU SPA

Elective Credits 3

- Take one three credit (3 cr) MAT 1000:9999, STAT 1000:9999, or CSC 1000:9999.

SPA 2138 or SPA 2140

Elective Credits 3

Course	Title	Credits
SPA 2138	Advanced Spanish	3
SPA 2140	Writing & Stylistics in Span	3

Spanish Electives for EDU SPA

Elective Credits 12

Select 4 Classes from: SPA 3000+ (12 cr).

Additional SPA elective or SPA 3970

Elective Credits 3

SPA Elective #6 or SPA 3970 Research Seminar needed for double major.

- Please speak to the Department of Spanish to review the requirements for the double major.

Counseling Minor

Program Director: Krista Malott, Ph.D.
Office Location: 302 Saint Augustine Center
[Email](#)
[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program [Education and Counseling](#)
Degree Type Minor

MINOR: Counseling (15 credits)

The Minor in Counseling exposes students to knowledge of the field of counseling and the counseling process, evidence-based therapeutic practices, and the application of counseling skills. The minor is not intended to replace graduate level professional training, but to prepare students for entry level helping careers, for advanced graduate work, or to complement coursework from a variety of majors.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students interested in declaring the counseling minor must have a minimum GPA of 3.0

Course	Title	Credits
COU 2000	Introduction to Counseling	3
	COU 3500 or PSY 3700	3
	COU 3100 or three one-credit COM 5300 workshops	3
	COU 3400 or COU 2500	3
	COU 3600 or COU 3700	3

COU 3500 or PSY 3700

Elective Credits 3

Select one of the following:

Course	Title	Credits
COU 3500	Devlp Perspective to Diagnosis	3
PSY 3700	Psychopathology	3

COU 3100 or three one-credit COM 5300 workshops

Elective Credits 3

Note: COM 5300 is a 1-credit, 10 hour workshop. Students who select this route must take three one-credit COM 5300 workshops to fulfill the requirement.

- Students may also fulfill the requirement with any 3 credit course with the RJDC attribute.

Course	Title	Credits
COU 3100	Group Counseling	3
COM 5300	DialogueIdentity&SocialJustice	

COU 3400 or COU 2500

Elective Credits 3

Course	Title	Credits
COU 3400	Culturally Competent Counseling	3
COU 2500	Counseling for Women	3

COU 3600 or COU 3700

Elective Credits 3

Select one of the following:

Course	Title	Credits
COU 3600	Motivational Counseling Skills	3
COU 3700	Family & Couples Counseling	3

Education Minor

Program Director: Madara Soutter, Ed.D.
Location: Saint Augustine Center, Room 302
Phone: 610-519-4733
[Website](#)

About

The Education Minor is 15 credits. The minor in Education does not qualify one to teach in Pennsylvania public schools. If a student wishes to continue toward teacher certification after graduation, they will need to complete the coursework and student teaching required to apply for Pennsylvania certification. Students interested in obtaining teacher certification should speak to Education Undergraduate Program Director, Dr. Madora Soutter, to create a plan for moving forward.

Program Education and Counseling
Degree Type Minor

MINOR: Education (15 credits)

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Electives other than those listed below may be taken with approval of Chairperson. Please contact the program director for more information on electives and registering for graduate level courses.
- All 8000 level courses need approval of Chairperson.

Course	Title	Credits
	EDU 2201 or EDU 2202	3
EDU 3251	Psych of Teaching & Learning	3
EDU 3263	Diversity and Inclusion	3
EDU 4290	Philosophy of Education	3
	EDU Minor Elective	3

EDU 2201 or EDU 2202

Elective Credits 3

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3

EDU Minor Elective

Elective Credits 3

Choose one course from the following list, or others as approved by Chairperson. Please

contact [Rita Siciliano](#) for more information on electives and registering for graduate level courses.

Course	Title	Credits
EDU 2300	Research Seminar in Education	3
EDU 3258	Education & Society in 1960s	3
EDU 3262	Edu Pearl Harbor to Sputnik	3
EDU 3264	Intro to Disability Studies	3
EDU 4245	Literacy & Eng Lang Learning	3

Education Policy & Leadership Minor

Program Director: Madora Soutter, Ed.D.
Location: Saint Augustine Center, Room 302
Phone: 610-519-4733
[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

Program Education and Counseling
Degree Type Minor

MINOR: Education Policy & Leadership (15 credits)

A minor in Educational Policy and Leadership is designed to help students develop an awareness of global issues in education in order to learn how educational institutions can transform and be transformed by society through school policy and leadership. A minor in Educational Policy and Leadership requires at least 15 credits. The minor in Educational Policy and Leadership does not lead to Pennsylvania teacher certification or qualify one to teach in Pennsylvania public schools.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Other courses may count as an elective by approval of Chairperson.
- All 8000 level courses need approval of Chairperson.

Course	Title	Credits
EDU 3264	Intro to Disability Studies	3
	Diversity and Inclusion or Urban Education	3
	EDU 3253 or EDU 8654	3
	Education Policy & Leadership Electives	6

Diversity and Inclusion or Urban Education

Elective Credits 3

Select 1 course (3 cr)

Course	Title	Credits
EDU 3263	Diversity and Inclusion	3

EDU 3253 or EDU 8654

Elective Credits 3

Requirement is also fulfilled by EDU 8654, which is a grad-level course.

Course	Title	Credits
EDU 3253	Educational Policy Analysis	3

Education Policy & Leadership Electives

Elective Credits 6

Choose six credits from the following list. Other courses may qualify based on approval of Chairperson. Please contact [Rita Siciliano](#) for more information on electives and registering for graduate level courses.

List also includes EDU 8610, 8656, 8664, 8669 and 8679.

Course	Title	Credits
EDU 2202	Social Foundation Edu II	3
EDU 2300	Research Seminar in Education	3
EDU 3251	Psych of Teaching & Learning	3
EDU 4290	Philosophy of Education	3
EDU 4245	Literacy & Eng Lang Learning	3

Teaching Certification

Chair: [Teresa G. Wojcik](#), Ph.D.,
Department of Education and Counseling
Program Director: Madara Soutter, Ed.D.
Certification Officer: [Nancy Franz](#), M.Ed.
Office Location: 302 Saint Augustine Center
Telephone: 610-519-4620
[Website](#)

About

Teacher certification can only be obtained within the context of the Bachelor of Arts in Education program. Villanova does not offer a stand alone teaching certification program.

Villanova University's secondary teacher education program is approved by the Pennsylvania Department of Education as satisfying the requirements for teacher certification in 9 subject areas. Students with majors in departments other than Education and Counseling may be admitted to the teacher education program upon the approval of the Program Director.

Student Teaching is normally taken in the second semester of the senior year. Exploratory-Arts students who may be interested in Secondary

Teacher Certification should stop by the Office of Education and Counseling, 302 St. Augustine Center for the Liberal Arts, as soon as possible to discuss the content area prerequisites and the requirements of the Education major.

Students enrolled in the Undergraduate Teacher Education Program will have their work reviewed each semester by academic advisor to determine progress and professional development for certification. Students must achieve a 3.0 overall GPA and successful completion of the PAPA tests (or satisfaction of the *SAT/ ACT exemption) before they are permitted to do student teaching. Students who do not achieve the required cumulative average by spring semester junior year will not be allowed to continue in the education major.

AREAS OF CERTIFICATION:

Biology, Chemistry, English, French, Latin, Mathematics, Physics, Spanish, and Social Studies.

Upon successful completion of the Education major courses, the required courses in their certification content area, the PAPA, and the Praxis II exams, the student will be eligible for Pennsylvania teaching certification in grades 7-12.

*SAT/ACT exemption: Students who receive qualifying score on the subset testing of the SAT and ACT may be exempt from taking the PAPA basic skills test. For more information please contact [Nancy Franz, M.Ed.](#)

Program [Education and Counseling](#)

Degree Type Certificate

English

English Major

Chair: Jean Lutes, Ph.D.
Office Location: 402 Saint Augustine Center
Telephone: 610-519-4630
[Website](#)

About

The English department believes that skillful, self-aware reading, writing, and thinking provide a foundation for meaningful living. We seek to

develop forms of analysis and expression that are both critical and creative and that help us comprehend the multiple cultural practices and values of the twenty-first century. Villanova English majors acquire a broad understanding of Anglophone literary history as well as familiarity with the major genres of the tradition. A department of accomplished scholars, we focus on undergraduate education and make our majors the center of pedagogy. While preserving the value of literature as a cultural form, we cultivate in our students the analytical skills necessary for negotiating today's rapidly changing world.

Program [English](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

There is no prerequisite to the major, but we strongly recommend that you take English 3001 (Foundational Literature in English I) early, since it will introduce you to writers, texts, and issues that are crucial to most subsequent courses.

Required Major Courses (33 credits)

English majors take a range of courses, from required courses (chosen from a number of possibilities) that provide a sense of the historical range and diversity of literature in English to electives covering contemporary writers, film, creative writing, and many more topics. Students can also form tracks (such as Professional Writing, World Literature, or Race and Ethnicity) within the major. English courses are particularly well-suited to helping students become better readers, writers, and analytical thinkers; because of those skills, and because of the breadth of literature, English courses are valuable in all aspects of our lives.

Program Notes:

- “Special Topics” signifies that the specific focus of the course varies by semester.

Course	Title	Credits
	BIPOC Literature Course	
	Pre-1800 Literature Courses	6
	Post-1800 Literature Course	6
ENG 2250	Ways of Reading:Lit Analysis	3
ENG 5000	Senior Seminar	3
	English Electives 1800 and Above	15

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (45 credits)

Students with an English primary major have forty-five (45) required free elective credits.

Degree Credit Summary

- **Major Credits:** 33 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 45 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare English as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

BIPOC Literature Course

Choose one course focused on Black, Indigenous, Person of Color (BIPOC) literature from the historical requirements from the list below, or any course with the EBIP attribute.

Course	Title	Credits
ENG 2304	Cont World Lit & Environment	3
ENG 2305	Black Life Writing	3
ENG 3618	Intro to African Lit I	3
ENG 3619	Intro to African Lit II	3
ENG 3650	African Drama	3
ENG 3660	Contemp. Lit & Film of India	3
ENG 3661	Black British Literature& Film	3
ENG 4003	African-American Lit Trad 1	3
ENG 4010	Early American Textual Bodies	3
ENG 4502	The Black Atlantic	3
ENG 4503	Indigenous Lit of the Americas	3
ENG 4602	African American Lit Trad 2	3
ENG 4603	African American Short Story	3
ENG 4610	African American Poetry	3
ENG 4618	Harlem Renaissance	3
ENG 4623	African American Novel	3
ENG 4632	African American Drama	3
ENG 4635	Contemporary American Poetry	3
ENG 4641	American Immigrant Narratives	3
ENG 4646	Race & Ethnicity: Amer Novel	3
ENG 4648	U.S. Empire & Cont. Am. Lit.	3
ENG 4649	Intro to Asian American Lit	3
ENG 4651	Lives of the Undocumented	3
ENG 4653	Work/Play in Cont. Latinx Lit	3
ENG 4700	Caribbean Literature	3

Pre-1800 Literature Courses

Elective Credits 6

Choose two courses in literature before 1800, in two different areas.

Pre-1500

Choose from the courses listed in this section, or any course with the ENG1 attribute.

Course	Title	Credits
ENG 3001	Foundational Lit in ENG 1	3
ENG 3150	Chaucer	3
ENG 3160	Fabulous Middle Ages	3
ENG 3170	Love & War in Medieval Romance	3
ENG 3181	Irish Epics, Visions&Hauntings	3
ENG 3195	Medieval Saints and Sinners	3

1500-1650

Choose from the courses listed in this section, or any course with the ENG2 attribute.

Course	Title	Credits
ENG 3001	Foundational Lit in ENG 1	3
ENG 3181	Irish Epics, Visions&Hauntings	3
ENG 3250	Shakespeare	3
ENG 3260	Revenge Tragedy	3
ENG 3350	Milton	3

1650-1800

Choose from the courses listed in this section, or any course with the ENG3 attribute.

Course	Title	Credits
ENG 3001	Foundational Lit in ENG 1	3
ENG 3195	Medieval Saints and Sinners	3
ENG 3350	Milton	3
ENG 3425	British Gothic Fiction	3
ENG 3426	Science, Lit & Enlightenment	3
ENG 3427	Adventures in 18th Century Lit	3
ENG 3428	Brit Novel in Romantic Period	3
ENG 3440	Harlots, Rakes, & Libertines	3
ENG 4010	Early American Textual Bodies	3
ENG 4503	Indigenous Lit of the Americas	3

Post-1800 Literature Course

Elective Credits 6

Choose two courses in literature after 1800, one from each time period.

1800- 1945

Choose from the courses listed in this section, or any course with the ENG4 attribute.

Course	Title	Credits
ENG 3425	British Gothic Fiction	3
ENG 3428	Brit Novel in Romantic Period	3
ENG 3500	Foundational Lit. in English 23	3
ENG 3507	StrangeCases:ImagHealth&Illnesses	3
ENG 3530	Victorian Doubles	3
ENG 3535	Gender, Authorship & Anonymity	3
ENG 3540	Institutional Fictions	3
ENG 3580	Topics in 19th C Irish Lit&Cul	3
ENG 3615	James Joyce	3
ENG 3617	Irish Revivalism	3
ENG 3618	Intro to African Lit I	3
ENG 3620	Modern British Novel	3
ENG 3622	Virginia Woolf	3
ENG 3640	Irish Drama	3
ENG 4000	American Literary Trad 1	3
ENG 4001	Major American Writers I	3
ENG 4003	African-American Lit Trad 1	3
ENG 4502	The Black Atlantic	3
ENG 4503	Indigenous Lit of the Americas	3
ENG 4510	Early American Poetry	3
ENG 4515	American Gothic	3
ENG 4520	American Novel to 1945	3
ENG 4545	Early American Novel	3
ENG 4590	Am. Lit. & Cult. before 1945	3
ENG 4591	Am. Lit. & Cult. before 1945	3
ENG 4600	Amer Literary Trad 2	3
ENG 4603	African American Short Story	3
ENG 4606	Alone Together-Social Dist Lit	3
ENG 4610	African American Poetry	3
ENG 4618	Harlem Renaissance	3
ENG 4623	African American Novel	3
ENG 4624	Crime Fiction and Gender	3
ENG 4641	American Immigrant Narratives	3
ENG 4652	Letters, Texts, & Twitter	3

1945 - Present

Choose from the courses listed in this section, or any course with the ENG5 attribute.

Course	Title	Credits
ENG 2304	Cont World Lit & Environment	3
ENG 2305	Black Life Writing	3
ENG 2360	Adaptation:Film as Literature	3
ENG 3616	Irish American Drama & Film	3
ENG 3618	Intro to African Lit I	3
ENG 3619	Intro to African Lit II	3
ENG 3621	Contemp British Novel	3
ENG 3650	African Drama	3
ENG 3660	Contemp. Lit & Film of India	3
ENG 3661	Black British Literature& Film	3
ENG 3680	Top: 20th-21st C Irish Lit&Cul	3
ENG 3682	Contemporary Irish Literature	3
ENG 3690	Br/Ir Lit. & Cult. after 1945	3
ENG 3691	Br/Ir Lit. & Cult. after 1945	3
ENG 4600	Amer Literary Trad 2	3
ENG 4601	Major American Writers II	3
ENG 4602	African American Lit Trad 2	3
ENG 4603	African American Short Story	3
ENG 4606	Alone Together-Social Dist Lit	3
ENG 4610	African American Poetry	3
ENG 4623	African American Novel	3
ENG 4624	Crime Fiction and Gender	3
ENG 4630	American Drama 1945 to Present	3
ENG 4632	African American Drama	3
ENG 4635	Contemporary American Poetry	3
ENG 4641	American Immigrant Narratives	3
ENG 4646	Race & Ethnicity: Amer Novel	3
ENG 4647	Gender & Sexuality in US Lit	3
ENG 4648	U.S. Empire & Cont. Am. Lit.	3
ENG 4649	Intro to Asian American Lit	3
ENG 4651	Lives of the Undocumented	3
ENG 4652	Letters, Texts, & Twitter	3
ENG 4653	Work/Play in Cont. Latinx Lit	3
ENG 4690	Amer. Lit. & Cult. after 1945	3
ENG 4691	Amer. Lit. & Cult. after 1945	3
ENG 4700	Caribbean Literature	3
ENG 4702	Authors On & Off the Page	3
ENG 4703	21st C. American Apocalypse	3

English Electives 1800 and Above

Elective Credits 15

Choose five courses numbered 1800 and above, with the exception of 1975, which cannot be counted.

- When combined, the following one-credit courses can now count as an elective in the English major ENG 2991, ENG 2994, and HON 5440.

Creative Writing Minor

Program Contact: Alan Drew

Office Location: St. Augustine Center, Room 456

Phone: 610-519-7826

[Website](#)

The Creative Writing Program offers an interdisciplinary Minor in Creative Writing to students across the university. The goal of the program is to support students in their creative writing endeavors. The Creative Writing Program seeks to offer students the opportunity to augment their degree by taking courses that will awaken their imagination, develop their skills as creative writers and thinkers, and foster greater empathy towards the experiences of others.

The Creative Writing Program also seeks to create a "space of creativity" within the university. Through courses and workshops, students will interact with and learn from their peers as well as published novelists, poets, playwrights and screenwriters.

Interested freshmen may wish to take part in our [Creative Writing Community](#).

Program [English](#)

Degree Type Minor

MINOR: Creative Writing (15 credits)

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students must take ENG 2003: Introduction to Creative Writing as a prerequisite to the minor (this course counts for one of the three elective courses under the 'Creative Writing Electives' group below).
- Students may also complete an Independent Study (Completion of a collection of stories or poems, or a novel) upon approval.

Course	Title	Credits
ENG 4702	Authors On & Off the Page	3
	Creative Writing Electives	9
	Creative Writing Additional Elective	3

Creative Writing Electives

Elective Credits 9

Choose three courses from the following list:

Course	Title	Credits
ENG 1842	Perspectives in Literature	3
ENG 2003	Intro to Creative Writing	3
ENG 2004	Writing Creative Nonfiction	3
ENG 2005	Writing of Short Story	3
ENG 2006	The Writing of Poetry	3
ENG 2009	Writing the Traditional Novel	3
ENG 2012	Advanced Creative Writing	3
ENG 2013	Writing of Memoir	3
ENG 2017	Writing Detective Fiction	3
ENG 2018	Nature Writing Workshop	3
ENG 2019	Writing for Social Change	3
ENG 2022	Writing Through Conflict	3
ENG 2061	Editing & Publishing	3

Creative Writing Additional Elective

Elective Credits 3

Choose one courses from the following list:

Course	Title	Credits
COM 3303	Screenwriting	3
HON 5440	Literary Arts:Poetry	1
THE 3007	Playwriting	3

English Minor

Program Contact: Amanda Eliades, Advisor for English Minors
Office Location: Saint Augustine Center, Room 402
Phone: 610-519-7826
[Website](#)

About

The English department believes that skillful, self-aware reading, writing, and thinking provide a foundation for meaningful living. We seek to develop forms of analysis and expression that are both critical and creative and that help us comprehend the multiple cultural practices and values of the twenty-first century. Villanova English minors acquire an understanding of the scope of Anglophone literature as well as familiarity with some of the major genres of the tradition. A department of accomplished scholars, we focus on undergraduate education and cultivate in our students the analytical skills necessary for negotiating today's rapidly changing world.

Program [English](#)
Degree Type Minor

MINOR: English (15 credits)

To complete an English Minor, you take five English courses (15 credits) numbered 1800 or higher, with the exception of 1975, which cannot be counted. To declare an English Minor, students should complete the declaration form on MyNova.

- Upper Level Literature (6 cr) - Select 2 Classes from: ENG 2080:4999 (6 cr)
- English Electives (9 cr) - Select 3 Classes from: ENG 1842:5000 (with the exception of ENG 1975)

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- At least three of these courses must be taken at Villanova.
- Course numbers from 2000 to 4999 refer only to the subjects that the course cover, and do not reflect the level or difficulty.

Ethics

Ethics Minor

Program Director: Mark Doorley, Ph.D.
Associate Director: Brett T. Wilmot, Ph.D.
Office Location: 205 Saint Augustine Center
Telephone: 610-519-4692
[\[Website\]](#)

About

Here at Villanova University, we believe that at the heart of every human endeavor we find assumptions about what it means to live well as human beings in the world and in relationships with others—human, non-human, and divine. The aim of the Ethics Program is to provide students with opportunities to explore these assumptions, to understand their origins in our great intellectual traditions, and to engage them critically using methods and resources both theological and philosophical.

Villanova University prides itself on presenting an educational alternative built around a clear ethical core, in particular, the moral teachings of the Catholic intellectual tradition. The ethics minor allows students to pursue the study of ethics explicitly and in depth as part of their undergraduate education. The minor contributes directly to the mission of the university. A focus on a particular set of questions/issues within ethics not only benefits students' intellectual and moral development and contributes to the public perception of the university but also has tangible benefits for students as they apply for graduate studies, fellowships, and job on completion of their studies.

Program [Ethics](#)
Degree Type Minor

MINOR: Ethics (18 credits)

Program Notes

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students choose a focus of study and pursue courses listed below, in consultation with their Ethics faculty advisor. To view examples of potential ethics minor areas of focus, [click here](#). **By no means should a student feel they are required to adhere to one of these examples; they should work with their Ethics faculty advisor on designing their course of study.**
- Each semester the upper-level courses that will count toward the minor will be marked in the Master Schedule, in the Attributes section with "Fulfills ethics minor requirement." These will also be listed on the Ethics Program website. It is important for students to be sure they take the upper level courses that are affiliated with their focus of study.
- The ETH 30xx courses will be planned five semesters in advance so that students will know what will be offered in future semesters, for planning purposes. This information will be available on the Ethics Program website.
- Students are able to do service work in lieu of one of their elective courses in all focus areas. The service must be related to their focus of study, amount to at least 60 hours of service, and not be credit-bearing or paid work. Students will register for ETH 4975 Ethics Independent Study (3 cr) and must complete their service and associated assignments in that same semester. Students must get approval of their service site from the Associate Director of the Ethics Program.

Course	Title	Credits
ETH 2050	The Good Life:Eth & Cont Prob	3
	Upper-Level Ethics Elective	3
	Philosophical Ethics Course	3
	Theological Ethics Course	3
	Two Electives in the Student's Chosen Focus	6

Upper-Level Ethics Elective

Elective Credits 3

One Ethics course of 3000 level or higher, carrying the ETHE attribute. Ideally this course should advance the aims of the student's chosen focus.

Philosophical Ethics Course

Elective Credits 3

A student will take one course in philosophical ethics, offered by ETH, HON, HUM, PHI or PJ, related to the chosen focus, carrying the ETHP attribute.

Theological Ethics Course

Elective Credits 3

A student will take one course in theological ethics, offered by ETH, HON, HUM, PJ or THL, related to the chosen focus, carrying the ETHT attribute.

Two Electives in the Student's Chosen Focus

Elective Credits 6

Students must take two electives that may or may not be ethics courses, but which are relevant to the chosen theme/focus.

While there are many possible combinations of courses on particular themes than we can identify here, what follows are possible courses of study. The goal for the ethics advisor and the student is to identify a set of courses that have coherence in light of the focus of study.

To view examples of prospective areas of focus, [click here](#). **By no means should a student feel they are required to adhere to one of these examples; they should work with their Ethics faculty advisor on designing their course of study.**

French and Francophone Studies

French & Francophone Studies Major

Program Director: Roderick Cooke, Ph.D.

Office Location: 340 Saint Augustine Center

Telephone: 610-519-4680

[Website](#)

About

The French and Francophone Studies Program (FFS) offers a major and a minor. FFS emphasizes language skills and offer interdisciplinary studies in the faculty's area of specialization: French literature and cinema; the cultures and literatures of the Francophone world; and stylistics and translation. Francophone studies is a dynamic and rapidly expanding field. Villanova's interdisciplinary FFS have been designed to provide students with a thorough grounding in the literatures, history, politics, cultural production, sociolinguistics, postcolonial experiences, and development of Francophone countries.

Program [French and Francophone Studies](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (31 credits)

The Major consists of 31 FFS credits above the intermediate level (FFS 1122), including courses in literature, cinema, and cultural studies. Students may obtain up to 6 credits through the Villanova summer program in Lille, France, and up to 9 credits through the semester program.

Program Notes:

- One RLL course taught in English with FFS attribute may be accepted for the major.
- FFS 3971 is to be taken in conjunction with any 3000-level course.
- Students may obtain up to 6 credits through the Villanova summer program in Lille, France, and up to 9 credits through the semester programs.

Course	Title	Credits
	FFS 1138 or FFS 1140	3
	FFS 2220 or FFS 2221	3
FFS 3971	Directed Research in FFS	1
	FFS 3000+ elective	3
	French and Francophone Studies Electives	21

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (47 credits)

Students with a French & Francophone Studies primary major have forty-seven (47) required free elective credits.

Degree Credit Summary

- **Major Credits:** 31 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 47 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare French & Francophone Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

FFS 1138 or FFS 1140

Elective Credits 3

Course	Title	Credits
FFS 1138	Advanced Grammar	3
FFS 1140	Writing & Stylistics in French	3

FFS 2220 or FFS 2221

Elective Credits 3

Course	Title	Credits
FFS 2220	Lit and Culture of France	3
FFS 2221	Lit/Cult Francophone World	3

FFS 3000+ elective

Elective Credits 3

French and Francophone Studies Elective (3000 level or above) (3 cr) – Select 1 Class from FFS 3000:9999

French and Francophone Studies
Electives

Elective Credits 21

Select 7 Classes from FFS 1123:9999 totaling 21 cr.

French and Francophone Studies Minor

Program Director: Roderick Cooke, Ph.D.
Office Location: 340 Saint Augustine Center
Telephone: 610-519-4680
[Website](#)

About

The French and Francophone Studies Program (FFS) offers a major and a minor. FFS emphasizes language skills and offer interdisciplinary studies in the faculty's area of specialization: French literature and cinema; the cultures and literatures of the Francophone world; and stylistics and translation. Francophone studies is a dynamic and rapidly expanding field. Villanova's interdisciplinary FFS have been designed to provide students with a thorough grounding in the literatures, history, politics, cultural production, sociolinguistics, post-colonial experiences, and development of Francophone countries.

Program [French and Francophone Studies](#)
Degree Type Minor

MINOR: French & Francophone Studies (15 credits)

A minor is open to all students and requires 5 courses above intermediate level (FFS 1122).

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- No course in English may count for the minor.

Course	Title	Credits
FFS 1131	Conversation and Composition I	3
FFS 1132	Conversation & Composition II	3
	FFS Electives for Minor	9

FFS Electives for Minor

Elective Credits 9

Select 3 Classes of three or more credits from FFS 1130:9999

Gender and Women's Studies

Gender and Women's Studies Minor

Co-Directors: [Travis Foster, Ph.D.](#) and Kelly-Anne Diamond, Ph.D.
[\[Website\]](#)

About

Gender and Women's Studies encourages critical analysis of gender and sexuality at local, national, and global levels—now and in the past. Our curriculum brings feminist and queer theory into conversation with fields of study across the University, from history to sociology to global finance, helping students discover new alternatives for thinking about the problems of

the world and the contributions of its people. As teachers, we are profoundly influenced by feminist models of collaborative learning and shared authority. We recognize our students and their life experiences as sources of vital expertise, and we help them find a voice, a sense of community, and a purpose as agents of social change.

Program [Gender and Women's Studies](#)
Degree Type Minor

MINOR: Gender & Women's Studies (18 credits)

The minor is open to all students and requires 2 courses and 4 electives for a total of 18 credits. Student may choose their four electives from any GWS-attributed courses that are available in a variety of disciplines.

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
GWS 2050	Introduction to Gender Studies	3
GWS 5000	Integrating Seminar	3
	GWS Electives for Minor	12

GWS Electives for Minor

Elective Credits 12

Select 4 Classes in any course of 3 credits or more in any subject with the GWS attribute

Geography and the Environment

Environmental Studies Major

Chair: Nathaniel Weston, Ph.D.
 Program Director: Peleg Kremer, Ph.D.
 Office Location: Suite G61, Mendel Science Center
 Telephone: 610-519-3336
[Website](#)

About

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers a minor in Geography and supports the Sustainability Studies minor. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society. The department has two teaching and five research labs; and the department has a full suite of state-of-the-art geospatial software and scientific research equipment.

Program [Geography and the Environment](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (57 credits)

The B.A. in Environmental Studies program focuses on the interface between environmental science and relevant social sciences, including public policy, political science, law, economics, sociology, and planning. Towards this end, the program's graduates will have a fundamental understanding of the biological, chemical, and physical principles that underlie the structure and function of the natural and physical environments of the Earth coupled with a foundation in the social sciences that underlie the relationships between humans, as individuals and/or societies, and the natural and physical environments of Earth. The program is founded on the principle that the social sciences – both as a bodies of knowledge and as the bases for structuring human societal norms and behaviors – must be applied to assess and to address the direct and indirect influences of human activities on the integrity of the Earth's systems.

Program Notes:

- **Students must select one track in either the Environmental Sustainability Concentration or Environmental Management Concentration, as listed below.**
- Consider course offerings with environmental content when selecting free electives.
- GEV 6006 must be taken a total of three times prior to graduation.
- Two environmental social science and humanities electives are required for the major, and not included in the 57 credits as they count towards core or free elective credits.

Course	Title	Credits
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4
GEV 2001	Prof Dev in Geo and Env	1
GEV 3004	Geographies Envrnl Justice	3
GEV 4310	Environmental Issues Seminar	3
	Statistics for Environmental Studies	3
GEV 4700	Geographic Information Systems	4
GEV 6005	Senior Research Seminar	1
GEV 6006	Research Colloquium	0
GEV 6006	Research Colloquium	0

GEV 6006	Research Colloquium	0
	Environmental Social Sciences and Humanities Electives	0
	GEV Independent Study Requirement	3-6

Environmental Sustainability Concentration

Associated Career Paths: Corporate Sustainability, Environmental Planning, Environmental Journalism.

Course	Title	Credits
GEV 3001	Intro to Sustainability Study	3
GEV 4001	Advanced Sustainability Study	4
	Geospatial Technology	3-4
	Policy and Management Electives for ES Concentration	12
	Science and Technology Electives for ES Concentration	9

Environmental Management Concentration

Associated Career Paths: Environmental Consulting, Environmental Health, Environmental Law.

Course	Title	Credits
	CHM 1151 & 1103	5
GEV 2310	Environmental Chemistry	4
GEV 1750	Geo-Techniques	4
	Policy and Management Electives for EM Concentration	6
	Science and Technology Electives for EM Concentration	12

Core Curriculum Requirement (33 credits)

Environmental Studies Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (32 credits)

Students with an Environmental Studies primary major have thirty-two (32) required free elective credits.

Degree Credit Summary

- **Major Credits:** 57 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 32 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Environmental Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Statistics for Environmental Studies

Elective Credits 3

Select 1 course from those listed.

Course	Title	Credits
BIO 3105	Experimental Design & Analysis	4
GEV 3300	Stats. in Environmental Sci.	3
STAT 1313	Statistics for Life Sciences	3
STAT 4310	Stat Methods	3

Environmental Social Sciences and Humanities Electives

Elective Credits 0

- Select two classes from this list, or any course of three or more credits with the GESH attribute.
- Course credits are counted under core curriculum or free electives.

GEV Independent Study Requirement

Elective Credits 3-6

- Choose GEV 6200: Independent Study (3 cr) OR
 - GEV 6210 and 6220: Senior Thesis I & II (6 cr – 3 cr of which count as a free elective)

Course	Title	Credits
GEV 6200	Independent Study	3
Course	Title	Credits
GEV 6210	Senior Thesis Research I	3
GEV 6220	Senior Thesis Research II	3

Geospatial Technology

Elective Credits 3-4

Select 1 course which carries the GEOS attribute.

Policy and Management Electives for ES Concentration

Elective Credits 12

Select 4 courses of three or more credits with the GEPM attribute (12 cr).

Science and Technology Electives for ES Concentration

Elective Credits 9

Select 3 classes of three credits or more with the GESc attribute (9 cr).

CHM 1151 & 1103

Elective Credits 5

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1

Policy and Management Electives for EM Concentration

Elective Credits 6

Select 2 courses of three or more credits with the GEPM attribute (6 cr).

Science and Technology Electives for EM Concentration

Elective Credits 12

Select 4 classes of three or more credits with the GESc attribute (12 cr).

Geography Major

Chair: Nathaniel Weston, Ph.D.

Program Director: Keith Henderson, Ph.D.

Office Location: Suite G61, Mendel Science Center
Telephone: 610-519-3336

[Website](#)

About

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers a minor in Geography and supports the Sustainability Studies minor. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society. The department has two teaching and five research labs; and the department has a full suite of state-of-the-art geospatial software and scientific research equipment.

Program [Geography and the Environment](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (37 credits)

The B.A. in Geography provides a well-rounded and useful education and marketable skills to students with interests in the spatial patterns of society and the environment. It focuses on the interactions of humans with the natural and physical environments of Earth from a special perspective. Towards this end, the program's graduates will have a fundamental understanding of the human social dynamics and physical patterns and processes at the Earth's surface, such as globalization, climatic variation and natural disasters within the context of places, landscapes, and regions. Graduates will also be trained in the use of geospatial technologies as tools in addressing many modern concerns. The program is founded on the principle that geographical knowledge of place, space, and scale can provide essential insights into contemporary social and environmental issues and variation in human cultures and behaviors, and promotes the idea that such insight is critical to managing the Earth at local, regional and global scales.

Course	Title	Credits
	Introductory Geography Requirement	6
GEV 1750	Geo-Techniques	4
GEV 2001	Prof Dev in Geo and Env	1
GEV 2500	Global Change in Local Places	3
GEV 4700	Geographic Information Systems	4
GEV 6005	Senior Research Seminar	1
GEV 6006	Research Colloquium	0
GEV 6006	Research Colloquium	0
GEV 6006	Research Colloquium	0
	GEV Independent Study Requirement	3-6
	GEV Regional Perspectives Course	3
	GEV Geospatial Technology Course	3
	Geography Electives for B.A.	9

Core Curriculum Requirements (38 credits)

Geography Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Social Science (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (47 credits)

Students with a Geography primary major have forty-seven (47) required free elective credits.

Degree Credit Summary

- **Major Credits:** 37 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 47 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Geography as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Introductory Geography Requirement

Elective Credits 6

- Select any two courses between GEV 1000 and 1009 (6 cr).

GEV Independent Study Requirement

Elective Credits 3-6

- Choose GEV 6200: Independent Study (3 cr)
OR
 - GEV 6210 and 6220: Senior Thesis I & II (6 cr – 3 cr of which count as a free elective)

Course	Title	Credits
GEV 6200	Independent Study	3
Course	Title	Credits
GEV 6210	Senior Thesis Research I	3
GEV 6220	Senior Thesis Research II	3

GEV Regional Perspectives Course

Elective Credits 3

Choose one Regional Perspectives course, which carries the GEOR attribute.

GEV Geospatial Technology Course

Elective Credits 3

Choose one Geospatial Technology course, which carries the GEOS attribute.

Geography Electives for B.A.

Elective Credits 9

Select 3 classes which carry the GEOE attribute.

Environmental Science Major

Chair: Nathaniel Weston, Ph.D.

Program Director: Steven Goldsmith, Ph.D.

Office Location: Suite G61, Mendel Science Center

Telephone: 610-519-3336

[Website](#)

About

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers a minor in Geography and supports the Sustainability Studies minor. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society. The department has two teaching and five research labs; and the department has a full suite of state-of-the-art geospatial software and scientific research equipment.

Program [Geography and the Environment](#)

Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Require Major Courses (70 credits)

The B.S. in Environmental Science Program provides the technical background necessary for understanding the biological, chemical, and physical aspects of the environment. It focuses on the application of biological, chemical and physical principals to understanding the natural and physical environments of the Earth. Towards this end, the program's graduates will have an understanding of and appreciation for the processes and interactions that occur both within and between the atmosphere, the biosphere, the lithosphere, and the hydrosphere. The program is founded on the principle that science - both as a body of knowledge and as a process that is grounded in intellectual inquiry and the scientific method - must be applied to assess the direct and indirect influences of human activities on the integrity of the Earth's systems.

Program Notes:

- Consider course offerings with environmental content when selecting free electives.
- MAT 1310 may fulfill the MAT 1500 requirement.
- GEV 6006 must be taken a total of 3 times prior to graduation.

Course	Title	Credits
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4
GEV 1750	Geo-Techniques	4
GEV 2001	Prof Dev in Geo and Env	1
GEV 2310	Environmental Chemistry	4
	Statistics for Environmental Science	3
GEV 4310	Environmental Issues Seminar	3
GEV 4700	Geographic Information Systems	4
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
PHY 1100	General Physics I	3
PHY 1101	General Physics I Lab	1
MAT 1500	Calculus I	4
GEV 6005	Senior Research Seminar	1
GEV 6006	Research Colloquium	0
GEV 6006	Research Colloquium	0
GEV 6006	Research Colloquium	0
	GEV Independent Study Requirement	3-6

GEV Lab Elective	8
GEV Science and Technology Electives	12
GEV Policy and Management Electives	6

Core Curriculum Requirements (33 credits)

Environmental Science Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (19 credits)

Students with an Environmental Science primary major have nineteen (19) required free elective credits.

Degree Credit Summary

- **Major Credits:** 70 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 19 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Environmental Science as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Statistics for Environmental Science

Elective Credits 3

Select 1 course from those listed.

Course	Title	Credits
BIO 3105	Experimental Design & Analysis	4
GEV 3300	Stats. in Environmental Sci.	3
STAT 1313	Statistics for Life Sciences	3
STAT 4310	Stat Methods	3

GEV Independent Study Requirement

Elective Credits 3-6

- Choose GEV 6200: Independent Study (3 cr)
OR
 - GEV 6210 and 6220: Senior Thesis I & II (6 cr – 3 cr of which count as a free elective)

Course	Title	Credits
GEV 6200	Independent Study	3
Course	Title	Credits
GEV 6210	Senior Thesis Research I	3
GEV 6220	Senior Thesis Research II	3

GEV Lab Elective

Elective Credits 8

Select 2 Classes from the list below, or any course of four or more credits with the GESC attribute.

BIO or CHM lab courses above 2000 with the GESC attribute may fulfill this requirement.

Course	Title	Credits
GEV 4320	Spec. Topics in Env Lab Sci	4
GEV 4322	Ocean Environments	4
GEV 4323	Watershed Biogeochemistry	4
GEV 4329	Global Change Research	4

GEV Science and Technology Electives

Elective Credits 12

Select 4 classes of three or more credits with the GESC attribute (12 cr).

GEV Policy and Management Electives

Elective Credits 6

Select 2 Classes of three or more credits with the GEPM attribute (6 cr).

Geography Minor

Chair: Nathaniel Weston, Ph.D.

Program Director: Keith Henderson, Ph.D.

Office Location: Suite G61, Mendel Science Center

Telephone: 610-519-3336

[Website](#)

About

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers a minor in Geography and supports the Sustainability Studies minor. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society. The department has two teaching and five research labs; and the department has a full suite of state-of-the-art geospatial software and scientific research equipment.

Program [Geography and the Environment](#)
Degree Type Minor

MINOR: Geography (16 credits)

The geography minor is open to all students and requires 5 courses and 16 credits, and it is designed for students who wish to deepen and broaden their knowledge of the world with a distinctive yet flexible program of courses encompassing the relationship between the environment and society. The minor enables students to develop a coherent strategy for understanding and explaining the manner in which people and the Earth interact.

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
	Introductory Geography Requirement for Minor	3
GEV 4700	Geographic Information Systems	4
	GEV Regional Perspectives Course	3
	Geography Electives for Minor	6

Introductory Geography Requirement for Minor

Elective Credits 3

- Select any single course between GEV 1000 and 1009 (3 cr).

GEV Regional Perspectives Course

Elective Credits 3

Choose one Regional Perspectives course, which carries the GEOR attribute.

Geography Electives for Minor

Elective Credits 6

Select 2 classes which carry the GEOE attribute.

Global Interdisciplinary Studies

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

All students must choose one specialization from the sections listed below.

The Department of Global Interdisciplinary Studies also offers minors in the following programs: Arabic Language and Cultural Studies, Chinese Language and Cultural Studies, Japanese Language and Cultural Studies, Russian Language and Cultural Studies. Visit these individual pages to view requirements.

Africana Studies Major (GIS)

Chairperson: Chiji Akoma, Ph.D.

Office Location: 36 Garey Hall

Telephone: 610-519-6302

[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

Program [Global Interdisciplinary Studies](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (34 credits)

Villanova's Africana Studies Program connects faculty, students, and community members interested in the academic study of Africa and the African diaspora. With 25 faculty affiliates, about 20 courses offered each semester, a robust calendar of public events, and a major and a minor, the Program has grown significantly since its founding in 1994. Whether the topic is politics in Africa, the literature of the Black diaspora in France, the history of the US civil rights movement, or Black theology, the Africana Studies Program encourages critical thinking, crossing disciplinary boundaries, and connecting academic work with lived reality. The Africana Studies Program pursues knowledge that has often been overlooked or undervalued as we strive to develop deeply inclusive community. Indeed, as an Augustinian Catholic university, Villanova is oriented to its core by the vision of an African diasporic faith leader.

Required Specialization Courses:

Six courses with the AFR attribute for a minimum of 18 credits, including the courses listed below.

Program Notes:

- Students may also combine three 1-credit IGR courses to count as one of the undesignated Africana courses
- For GIS 5011, Team-taught Topics Student takes two different topics, the first of which counts as the Junior Research Seminar for the Major (6 credits).
- Courses taken as part of a study abroad program may be counted
- A GIS 5011 with AFR attribute (or other course approved by the program director) may be counted among the six courses, as long as the two required GIS 5011 courses for the GIS major have been fulfilled.

Required GIS Courses:

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5000	Special Topics	1
GIS 5011	GIS Select	3
GIS 5011	GIS Select	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2:Thesis	3

Study Abroad		
AFR 3000	Constructs of Blackness	3
	GIS Africana Elective	12
	Africana History or Literature	3

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (44 credits)

Students with an Africana Studies primary major have forty-four (44) required free elective credits.

Degree Credit Summary

- **Major Credits:** 34 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 44 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Africana Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Study Abroad

One semester of Study Abroad.

GIS Africana Elective

Elective Credits 12

Select four courses of three or more credits with the AFR attribute.

Africana History or Literature

Elective Credits 3

Select 1 Class from those listed below.
o Courses with the AFR attribute in History and English may be approved to count at the discretion of the director.

Course	Title	Credits
HIS 2291	African Amer His during Slaver	3
HIS 2292	African Amer His since Emancip	3

Arab and Islamic Studies Major (GIS)

Chairperson: Chiji Akoma, Ph.D.
Office Location: 36 Garey Hall
Telephone: 610-519-6302
[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an

understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

Program [Global Interdisciplinary Studies](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (31 credits)

Program Notes:

- Courses taken as part of a study abroad may be counted.
- For GIS 5011, Team-taught Topics Student takes two different topics, the first of which counts as the Junior Research Seminar for the Major (6 credits).

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5000	Special Topics	1
GIS 5011	GIS Select	3
GIS 5011	GIS Select	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2:Thesis	3
	GAIS Language Requirement	6-8
	GAIS Political Science Course	3
	GAIS History Course	3
	GAIS Theology Course	3
	Study Abroad	

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (47 credits)

Students with an Arab and Islamic Studies primary major have forty-seven (47) required free elective credits.

Degree Credit Summary

- **Major Credits:** 31 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 47 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Arabic and Islamic Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

GAIS Language Requirement

Elective Credits 6-8

Two courses of Arabic at the intermediate or above level.

Course	Title	Credits
ARB 1121	Intermediate Arabic I	4
ARB 1122	Intermediate Arabic II	4
ARB 1131	Intensive Adv Arabic I	3
ARB 1132	Intensive Adv Arabic II	3
ARB 1141	Intro to Colloquial Arabic	3

GAIS Political Science Course

Elective Credits 3

One Political Science course with an AIS attribute.

GAIS History Course

Elective Credits 3

One History course with an AIS attribute.

GAIS Theology Course

Elective Credits 3

One Theology course with an AIS attribute.

Study Abroad

One semester of Study Abroad.

Asian Studies Major (GIS)

Chairperson: Chiji Akoma, Ph.D.

Office Location: 36 Garey Hall

Telephone: 610-519-6302

[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

All students must choose one specialization from the sections listed below.

The Department of Global Interdisciplinary Studies also offers minors in the following programs: Arabic Language and Cultural Studies, Chinese Language and Cultural Studies, Japanese Language and Cultural Studies, Russian Language and Cultural Studies. Visit these individual pages to view requirements.

Program [Global Interdisciplinary Studies](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

MAJOR (31 credits)

Program Notes:

- For GIS 5011, Team-taught Topics Student takes two different topics, the first of which counts as the Junior Research Seminar for the Major (6 credits).
- Courses taken as part of a study abroad may be counted.
- One internship course may be counted.
- Coursework must be done on more than one country in Asia and in more than one discipline.

Required Major Courses:

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5000	Special Topics	1
GIS 5011	GIS Select	3
GIS 5011	GIS Select	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2:Thesis	3
	Asian Studies Major	9
	Electives	
	2 Asian Studies Language or 6-12 Elective Courses	

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (47 credits)

Students with an Asian Studies primary major have forty-seven (47) required free elective credits.

Degree Credit Summary

- **Major Credits:** 31 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 47 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

Secondary Major

Students who declare Asian Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Asian Studies Major Electives

Elective Credits 9

Three non-language courses with the Asian Studies (ASN) attribute.

2 Asian Studies Language or Elective Courses

Elective Credits 6-12

Any Asian Language elective courses at any level (only those not used to fulfill the CLAS language requirement)

Chinese Studies Major (GIS)

Chairperson: Chiji Akqma, Ph.D.

Office Location: 36 Garey Hall

Telephone: 610-519-6302

[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

Program [Global Interdisciplinary Studies](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (36 credits)

The Chinese language is spoken by over one billion people, making it the most spoken language in one country in the world, while it continues to gain global ascendancy and influence. Chinese Studies offers students extensive instruction in Chinese language coupled with interdisciplinary studies that position the language and culture of China within subject areas with global significance. Students will study Chinese to advanced levels, including taking courses on translation, with a capstone thesis partially written in Chinese. Sitting for external proficiency exams provides language certification, and a required Study Abroad experience provides experiential learning that reinforces cultural literacy.

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5011	GIS Select	3
GIS 5000	Special Topics	1
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2:Thesis	3
	Intermediate Chinese Courses	8
	Advanced Chinese Courses	12
	Asian Studies Course with Attribute	3

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (42 credits)

Students with a Chinese Studies primary major have forty-two (42) required free elective credits.

Degree Credit Summary

- **Major Credits:** 36 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 42 credits
- **Total Required Credits:** 122 Credits

SECONDARY MAJOR

Students who declare Chinese Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Intermediate Chinese Courses

Elective Credits 8

Course	Title	Credits
CHI 1121	Intermediate Chinese I	4
CHI 1122	Intermediate Chinese II	4

Advanced Chinese Courses

Elective Credits 12

Course	Title	Credits
CHI 1131	Advanced Chinese I	3
CHI 1132	Advanced Chinese II	3
CHI 1133	Advanced Chinese III	3
CHI 1134	Advanced Chinese IV	3

Asian Studies Course with Attribute

Elective Credits 3

One Asian Studies elective with ASN attribute worth at least 3 credits.

Cultural Studies Major (GIS)

Chairperson: Chiji Akoma, Ph.D.

Office Location: 36 Garey Hall

Telephone: 610-519-6302

[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

Program Global Interdisciplinary Studies

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (34 credits)

Cultural Studies is an interdisciplinary academic field that seeks to understand, critique, and transform cultural phenomena. It draws on a number of disciplines in the humanities and social sciences to scrutinize questions of identity, race, gender, class, and community as well as to examine how these areas manifest themselves in different cultural practices; also addressed is the meaning assigned to these variables. By examining the link between power and discourse, cultural studies deals with the representation of these identities, for representation is the vehicle through which knowledge of cultures is acquired. Cultural Studies is considered the next generation of area studies for those who – instead of focusing on a specific geographical area-- wish to study the global cultural phenomena with a set of theoretical tools.

Program Notes:

- Students must take six courses with the CST attribute for a minimum of 18 credits.
- For GIS 5011, Team-taught Topics Student takes two different topics, the first of which counts as the Junior Research Seminar for the Major (6 credits).
- Courses taken as part of a study abroad may be counted.
- One internship course may be counted.

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5000	Special Topics	1
GIS 5011	GIS Select	3
GIS 5011	GIS Select	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2: Thesis	3
CST 2100	Intro. to Cultural Studies	3
	GCST Core Courses	9
	Study Abroad	

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (44 credits)

Students with a Cultural Studies primary major have forty-four (44) required free elective credits.

Degree Credit Summary

- **Major Credits:** 34 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 44 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Cultural Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

GCST Core Courses

Elective Credits 9

Choose three core courses, one from each of the following three categories:

Representation

Course	Title	Credits
PHI 2760	Philosophy & Literature	3
PHI 4140	Phil of Contemporary Music	3
PHI 4150	Philosophy & Film	3

Gender

Course	Title	Credits
PHI 2410	Philosophy of Sex & Love	3
PHI 2420	Philosophy of Women	3

Race

Course	Title	Credits
PJ 2800	Race, Class, & Gender	3
PHI 3160	History of Islamic Phil	3
ENG 4646	Race & Ethnicity: Amer Novel	3

Study Abroad

One semester of Study Abroad.

Gender and Women's Studies Major (GIS)

Co-Directors: [Travis Foster, Ph.D.](#) and [Kelly-Anne Diamond, Ph.D.](#)
[\[Website\]](#)

About

Gender and Women's Studies encourages critical analysis of gender and sexuality at local, national, and global levels—now and in the past. Our curriculum brings feminist and queer theory into conversation with fields of study across the University, from history to sociology to global finance, helping students discover new alternatives for thinking about the problems of the world and the contributions of its people. As teachers, we are profoundly influenced by feminist models of collaborative learning and shared authority. We recognize our students and their life experiences as sources of vital expertise, and we help them find a voice, a sense of community, and a purpose as agents of social change.

Program Global Interdisciplinary Studies

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (30 credits)

The major in Gender and Women's Studies provides an interdisciplinary and comparative approach to deepen students' understandings of the history, culture, religion, politics, literature, and society. Students sign up for the major and choose their specialization through the Department of Global Interdisciplinary Studies. The GIS chair and GWS Academic Director will work closely with each student to develop their individual interests, abilities, and career goals while fulfilling the requirements for the major.

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GWS 2050	Introduction to Gender Studies	3
PHI 2420	Philosophy of Women	3
GWS 5000	Integrating Seminar	3
	GWS Electives for B.A.	18

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (48 credits)

Students with a Gender and Women's Studies primary major have forty-eight (48) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 48 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Gender and Women's Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

GWS Electives for B.A.

Elective Credits 18

Select 6 Classes in any course of 3 credits or more with GWS attribute

Irish Studies Major (GIS)

Chairperson: Chiji Akoma, Ph.D.
Office Location: 36 Garey Hall
Telephone: 610-519-6302
[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

Program [Global Interdisciplinary Studies](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (31 credits)

Program Notes:

- Courses taken as part of a study abroad may be counted.
- One internship course may be counted.
- For GIS 5011, Team-taught Topics Student takes two different topics, the first of which counts as the Junior Research Seminar for the Major (6 credits).

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5000	Special Topics	1
GIS 5011	GIS Select	3
GIS 5011	GIS Select	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2:Thesis	3
	IS 1121 or IS 2222	3
	Irish Literature Survey for Major	3
	HIS 3216 or HIS 2286	3
	IS Elective	6
	Study Abroad	

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	1 Upper Level Theology	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (47 credits)

Students with an Irish Studies primary major have forty-seven (47) required free elective credits.

Degree Credit Summary

- **Major Credits:** 31 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 47 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Irish studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

IS 1121 or IS 2222

Elective Credits 3

Choose one course of Irish language at the intermediate level or above.

Course	Title	Credits
IS 1121	Intermediate Irish Language I	3

Irish Literature Survey for Major

Elective Credits 3

Choose one course from those listed below, or one English course with the IS attribute.

Course	Title	Credits
ENG 3181	Irish Epics, Visions&Hauntings	3
ENG 3615	James Joyce	3
ENG 3617	Irish Revivalism	3
ENG 3680	Top: 20th-21st C Irish Lit&Cul	3
ENG 3682	Contemporary Irish Literature	3

HIS 3216 or HIS 2286

Elective Credits 3

Choose one history survey.

Course	Title	Credits
HIS 2286	Irish-American Saga	3

IS Elective

Elective Credits 6

Choose two courses with IS attribute worth three credits each.

Study Abroad

One semester of Study Abroad.

1 Upper Level Theology

Elective Credits 3

Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above.

Japanese Studies Major (GIS)

Chairperson: Chiji Akqma, Ph.D.
Office Location: 36 Garey Hall
Telephone: 610-519-6302
[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite

of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

Program Global Interdisciplinary Studies
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (36 credits)

With the capital Tokyo the world's largest metropolitan city, Japan occupies a prominent position on the global stage for its cutting-edge technologies humming across the country's archipelago of over 6,800 islands. Japanese Studies offers students extensive instruction in Japanese language coupled with interdisciplinary studies that position the language and culture of Japan in subject areas with global significance. Students will study Japanese to advanced levels, including taking courses on translation, with a capstone thesis partially written in Japanese. Sitting for external proficiency exams provides language certification, and a required Study Abroad experience provides experiential learning that re-enforces cultural literacy.

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5000	Special Topics	1
GIS 5011	GIS Select	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2:Thesis	3
	Intermediate Japanese Courses	8
	Advanced Japanese Courses	12
	Asian Studies Course with Attribute	3

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (42 credits)

Students with a Japanese Studies primary major have forty-two (42) required free elective credits.

Degree Credit Summary

- **Major Credits:** 36 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 42 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Japanese Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Intermediate Japanese Courses

Elective Credits 8

Course	Title	Credits
JPN 1121	Intermediate Japanese I	4
JPN 1122	Intermediate Japanese II	4

Advanced Japanese Courses

Elective Credits 12

Course	Title	Credits
JPN 1131	Advanced Japanese I	3
JPN 1132	Advanced Japanese II	3
JPN 1133	Advanced Japanese III	3
JPN 1134	Advanced Japanese IV	3

Asian Studies Course with Attribute

Elective Credits 3

One Asian Studies elective with ASN attribute worth at least 3 credits.

Latin American Studies Major (GIS)

Chairperson: Chiji Akoma, Ph.D.
Office Location: 36 Garey Hall
Telephone: 610-519-6302
[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural

diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

Program [Global Interdisciplinary Studies](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (34 credits)

Program Notes:

- Courses taken as part of a study abroad may be counted.
- One internship course may be counted.
- For GIS 5011, Team-taught Topics Student takes two different topics, the first of which counts as the Junior Research Seminar for the Major (6 credits).

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5000	Special Topics	1
GIS 5011	GIS Select	3
GIS 5011	GIS Select	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2: Thesis	3
	LAS Language Requirement	6
	LAS Electives	12
	Study Abroad	

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (44 credits)

Students with a Latin American Studies primary major have forty-four (44) required free elective credits.

Degree Credit Summary

- **Major Credits:** 34 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 44 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Latin American Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

LAS Language Requirement

Elective Credits 6

Two advanced Spanish courses above the intermediate level.

LAS Electives

Elective Credits 12

Four courses of three credits or more with the LAS attribute.

Study Abroad

One semester of Study Abroad.

Peace and Justice Major (GIS)

Chair: Kathryn Getek Soltis, S.T.L., Ph.D.
Office Location: 108 St. Rita Hall
Telephone: 610-519-6849
[\[Website\]](#)

About

The interdisciplinary curriculum of the Center for Peace and Justice Education is rooted in Villanova's Augustinian tradition of education in the service of peace and social justice, with particular emphasis on the poor and marginalized in society. Students are prepared to understand the essential elements of a moral and just society, reflect on models for socially responsible resolution of injustice and conflict, and learn the necessary skills to be advocates for a just and peaceful world.

Program [Global Interdisciplinary Studies](#)

PRIMARY MAJOR (122 credits)

Required Major Courses (30 credits)

The major in Peace and Justice Studies is offered in collaboration with the Department of Global Interdisciplinary Studies. To complete the major, students take five required courses and five elective courses in Peace and Justice, courses with a Peace and Justice attribute, or courses otherwise earning Peace and Justice credit.

Program Notes:

- Electives should be determined in consultation with the program director and tailored to the student's field(s) of interest.
- Up to 3 credits in courses fewer than 3 credits with the PJ attribute can be bundled to count as one elective.

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
PJ 2800	Race, Class, & Gender	3
PJ 2993	Internship	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2:Thesis	3
	PJ Electives for the B.A.	15

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (48 credits)

Students with a Peace and Justice primary major have forty-eight (48) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 48 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Peace and Justice as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

PJ Electives for the B.A.

Elective Credits 15

5 Classes in courses of 3 credits or more in PJ 1000:9999, or any course number in any subject with PJ attribute (15 cr).

Russian Area Studies Major (GIS)

Chairperson: Chiji Akoma, Ph.D.
Office Location: 36 Garey Hall
Telephone: 610-519-6302
[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

Program [Global Interdisciplinary Studies](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (34 credits)

Program Notes:

- Up to two courses taken as part of a study abroad program may be counted.
- For GIS 5011, Team-taught Topics Student takes two different topics, the first of which counts as the Junior Research Seminar for the Major (6 credits).

Course	Title	Credits
GIS 2000	Intro to Global Interd Studies	3
GIS 5000	Special Topics	1
GIS 5011	GIS Select	3
GIS 5011	GIS Select	3
GIS 6500	Capstone I: Research	3
GIS 6600	Capstone 2:Thesis	3
	RAS Language Requirement	6
	RAS Electives	12
	Study Abroad	

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (44 credits)

Students with a Russian Area Studies primary major have forty-four (44) required free elective credits.

Degree Credit Summary

- **Major Credits:** 34 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 44 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Russian Area Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

RAS Language Requirement

Elective Credits 6

Two Russian language courses at the intermediate level or higher.

Course	Title	Credits
RUS 1123	Intermediate Russian I	3
RUS 1124	Intermediate Russian II	3
RUS 1131	Conversation Composition	3
RUS 1132	Advanced Convers & Comp	3

RAS Electives

Elective Credits 12

Four Courses with the RAS attribute for a minimum of 12 credits.

Study Abroad

One semester of Study Abroad.

Arabic Language & Cultural Studies Minor

Assistant Chair for Critical Languages: Kayo Shintaku, Ph.D.

Office Location: Garey Hall 38C

Telephone: 610-519-5076

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[Website](#)

About

The Arabic Language and Cultural Studies program offers Arabic language and linguistic study, and classical and modern literature and cultural study. Arabic is the language of a rich culture and civilization dating back many centuries; it is also the language of Islam and the Quran. This culture has produced such figures as Averroes, the medieval Aristotelian philosopher, Ibn Khaldun, the first social historian, and the modern poet Khalil Gibran. Between the 8th and 15th centuries the volume of literary, scholarly, and scientific book production in Arabic and the level of urban literacy among readers of Arabic were greater than any the world had even known until that time.

The program represents a cutting-edge intellectual experience that provides its minors with an advantage in critiquing, understanding, and navigating the global landscape.

Program [Global Interdisciplinary Studies](#)
Degree Type Minor

MINOR: Arabic Language & Cultural Studies (20 credits)

Students can earn a minor in Arabic Language and Cultural Studies with six courses, listed below.

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
	Arabic Language Requirement for the minor	14-16
	ARB Cultural Studies Elective	6

Arabic Language Requirement for the minor

Elective Credits 14-16

Choose four courses from Arabic language. Language courses may count toward elective requirements if the four language requirements are met. If a student has already met Introductory Arabic, they may instead take Advanced Arabic to fulfill the language requirement (ARB 1131 & 1132). ARB 1141 may also count toward fulfilling the requirement.

Course	Title	Credits
ARB 1111	Basic Arabic I	4
ARB 1112	Basic Arabic II	4
ARB 1121	Intermediate Arabic I	4
ARB 1122	Intermediate Arabic II	4

ARB Cultural Studies Elective

Elective Credits 6

Choose two courses of three or more credits from the following list, or another culture-based course with the Arab and Islamic Studies (AIS) attribute.

ARB Cultural Studies courses

Course	Title	Credits
ARB 1131	Intensive Adv Arabic I	3
ARB 1132	Intensive Adv Arabic II	3
ARB 1141	Intro to Colloquial Arabic	3
ARB 2142	Arab Culture Thru Film & Text	3
ARB 3412	Special Topics	3
ARB 5900	ARB:Independent Study	3

Chinese Language and Cultural Studies Minor

Assistant Chair for Critical Languages: Kayo Shintaku, Ph.D.

Office Location: Garey Hall 38C

Telephone: 610-519-5076

kayo.shintaku@villanova.edu

[Website](#)

About

The Chinese Language and Cultural Studies program opens the way to the study of various elements of Chinese life. Chinese Language and Cultural Studies includes the rich heritage of novels, short stories, poetry, culinary art, film and the Chinese classics. Chinese Language and Cultural Studies represents a cutting-edge intellectual experience that provides its minors with a real advantage in critiquing, understanding, and navigating the global landscape.

Program [Global Interdisciplinary Studies](#)
Degree Type Minor

MINOR: Chinese Language & Cultural Studies (18-22 credits or 6 courses)

The Chinese Language and Cultural Studies minor is open to all students and requires 6 courses (18-22 credits), four courses in language and two in electives.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Other culture-based courses with AS attribute found across disciplines also qualify for the cultural studies elective.
- Advanced Chinese (CHI 1131) course and the Translation (CHI 1151) course may count as electives if the student has fulfilled the required language courses.
- Pertinent GIS team-taught courses and contents courses from other departments with AS (Chinese) attribute also qualify for CHI electives.
- Courses on Chinese/China taken as part of a study abroad will be counted.
- An internship related to Chinese Studies may be counted as an independent study.

Course	Title	Credits
	Chinese Language Course	12-16
	Chinese Cultural Studies Elective	6

Chinese Language Course

Elective Credits 12-16

Students take four courses from the list below.

Note: **Advanced Chinese courses and the Translation course may count as electives if student has fulfilled the required four language courses. This accounts for the variability in required credits for the minor.**

Course	Title	Credits
CHI 1111	Basic Chinese I	4
CHI 1112	Basic Chinese II	4
CHI 1121	Intermediate Chinese I	4
CHI 1122	Intermediate Chinese II	4
CHI 1131	Advanced Chinese I	3
CHI 1132	Advanced Chinese II	3
CHI 1133	Advanced Chinese III	3
CHI 1134	Advanced Chinese IV	3
CHI 1151	Spec. Top. in Chinese Language	3

Chinese Cultural Studies Elective

Elective Credits 6

Choose two courses from the following list, or another culture-based course with the AS attribute found across other disciplines.

Course	Title	Credits
CHI 1131	Advanced Chinese I	3
CHI 1132	Advanced Chinese II	3
CHI 1133	Advanced Chinese III	3
CHI 1134	Advanced Chinese IV	3
CHI 3412	Chinese Special Topics	3
CHI 3413	Chinese Calligraphy	3
GIS 4281	The Tale of Shanghai and Tokyo	3

Japanese Language and Cultural Studies Minor

Assistant Chair for Critical Languages: Kayo Shintaku, Ph.D.

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Telephone: 610-519-5076

kayo.shintaku@villanova.edu

About

The Japanese Language and Cultural Studies program offers a variety of courses, including language, traditional and popular culture, society,

history, and literature. The program represents a cutting-edge intellectual experience that provides its minors with a real advantage in critiquing, understanding, and navigating the global landscape.

Program [Global Interdisciplinary Studies](#)
Degree Type Minor

MINOR: Japanese Language & Cultural Studies (20 credits)

Students can earn a minor in Japanese Language and Cultural Studies with six courses, listed below.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- GIS team-taught courses and contents courses from other departments with ASN attribute also qualify for JPN electives.
- Courses taken as part of a study abroad will be counted.
- Internship related to Japanese studies may be counted as an independent study.

Course	Title	Credits
	Japanese Language Requirement	14-16
	JPN Elective	6

Japanese Language Requirement

Elective Credits 14-16

Choose four courses from Japanese language. Language courses may count toward elective requirements if the four language requirements are met. If a student has already met Introductory Japanese, they may instead take Advanced Japanese to fulfill the language requirement (JPN 1131 & 1132).

Course	Title	Credits
JPN 1111	Basic Japanese I	4
JPN 1112	Basic Japanese II	4
JPN 1121	Intermediate Japanese I	4
JPN 1122	Intermediate Japanese II	4

JPN Elective

Elective Credits 6

Select two courses from the list below or courses worth 3 or more credits with the JPN attribute. Language courses may count toward elective requirements if the four language requirements course requirement is met.

Course	Title	Credits
JPN 2102	Japanese Film	3
JPN 2143	Japanese Animation	3
JPN 3412	Special Topics	3
JPN 5900	JPN:Independent Study	3
GIS 4281	The Tale of Shanghai and Tokyo	3

Russian Language & Cultural Studies Minor

Assistant Chair for Critical Languages: Kayo Shintaku, Ph.D.

Office Location: Garey Hall 38C

Telephone: 610-519-5076

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[\[Website\]](#)

About

The Russian Studies Program offers courses that cover from language study to all aspects of Russia — the history, literature, culture, folklore, music, film, news media, and women's studies. This allows students to become familiar with Russian culture and society and the life experiences of Russians. Students also become familiar with Russia through courses on Russian history and politics offered by other departments on campus.

Program [Global Interdisciplinary Studies](#)
Degree Type Minor

MINOR: Russian Language & Cultural Studies (18 credits)

The Russian Language and Cultural Studies minor represents a cutting-edge intellectual experience that provides students with a real advantage in critiquing, understanding, and navigating the global landscape.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Other culture-based courses with RAS attribute found across disciplines also qualify.

Course	Title	Credits
	Russian Language Requirement for the Minor	12-14
	RUS Electives	6

Russian Language Requirement for the Minor

Elective Credits 12-14

Choose four courses from Russian language. If a student has already met Introductory Russian, they may instead take Advanced Russian options to fulfill the language requirement (RUS 1131 & 1132).

Course	Title	Credits
RUS 1111	Basic Russian I	4
RUS 1112	Basic Russian II	4
RUS 1123	Intermediate Russian I	3
RUS 1124	Intermediate Russian II	3

RUS Electives

Elective Credits 6

Choose two 3-credit courses with the RUS attribute.

History

History Major

Chair: Lynne Hartnett, Ph.D.

Office Location: 403 Saint Augustine Center

Telephone: 610-519-7219

[\[Website\]](#)

About

The History Department at Villanova offers students a dynamic liberal arts education with courses that span from antiquity to the modern world and traverse every region of the globe. The undergraduate History program focuses on the attainment of deep historical knowledge and a critical understanding of the enduring influence of the past on contemporary societies. The Faculty members of the History Department work closely with our students and prioritize individual development. Our courses provide the essential transferable skills that make our students competitive on the job market after graduation, prepare them for graduate and professional training, and stimulate the intellectual curiosity our students need to become engaged citizens of the world.

History seeks to understand and to explain the story of human experience, since the past provides the only laboratory of human experience actually lived. Historical study complements and builds on the foundational courses in the core through its appreciation of the complexity of humankind, recognizing in the people who make history the intellectual, the material, social, and spiritual diversity of the human condition. History further advances the goals of the core curriculum through an interdisciplinary methodology that seeks to reconstruct our collective past. It is the story of individuals, and the story of the political, religious, economic, and social ideologies and institutions they create in their search for identity, purpose, and value. History recognizes both the commonality of the human experience and the reality of cultural, class, racial, and gender distinctions that enrich that experience.

Program [History](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (33 credits)

Program Notes:

- The major is 33 credits and consists of 10 courses in history and one in art history.
- Majors must complete at least 18 credits/6 courses at Villanova.
- The Art History course required for the History major does not satisfy the Core Fine Arts requirement unless the History major is the student's secondary or tertiary major. Students for whom History is the primary major need to take an Art History course for the major and a different course with the Fine Arts attribute for the Core.
- Students interested in additional opportunities to hone their expository writing skills, strengthen their ability to construct and present persuasive written and oral arguments, should consider the 19-credit Legal Studies minor, available through the History Department.

Required Major Courses:

Course	Title	Credits
	Core History Course	3
HIS 2002	Historian's Craft	3
	Upper Level HIS Elective	3
	HIS 5501 or HIS 5515	3
	History: Art History Elective	3
	HIS Electives	18

Core Curriculum Requirements (41 credits)

History Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- History (3 cr)

The Art History course required for the History major does not satisfy the Core Fine Arts requirement unless the History major is the student's secondary or tertiary major. Students for whom History is the primary major need to take an Art History course for the major and a different course with the Fine Arts attribute for the Core

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (48 credits)

Students with a History primary major have forty-eight (48) required free elective credits.

Degree Credit Summary

- **Major Credits:** 33 credits
- **Core Credits:** 41 credits
- **Free Electives Credits:** 48 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare History as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Core History Course

Elective Credits 3

Choose one of the specially designated core history courses (HIS 1060 through HIS 1250).

Upper Level HIS Elective

Elective Credits 3

1 upper level HIS course (3000-4999) worth 3 credits.

HIS 5501 or HIS 5515

Elective Credits 3

Course	Title	Credits
HIS 5501	Sem in Historical Methodology	3
HIS 5515	Independent Research	3

History: Art History Elective

Elective Credits 3

1 Class in any course of 3 credits or more in AAH 0000:9999.

* This course does not fulfill the Fine Arts requirement.

HIS Electives

Elective Credits 18

6 Classes in courses of 3 credits or more in AAH 1101, 1102, HIS 0000:9999 (18 cr), or any course with the HIS attribute

History Minor

Chair: Lynne Hartnett, Ph.D.

Office Location: 403 Saint Augustine Center

Telephone: 610-519-7219

[\[Website\]](#)

About

The History Department at Villanova offers students a dynamic liberal arts education with courses that span from antiquity to the modern world and traverse every region of the globe. The undergraduate History program focuses on the attainment of deep historical knowledge and a critical understanding of the enduring influence of the past on contemporary societies. The Faculty members of the History Department work closely with our students and prioritize individual development. Our courses provide the essential transferable skills that make our students competitive on the job market after graduation, prepare them for graduate and professional training, and stimulate the intellectual curiosity our students need to become engaged citizens of the world.

History seeks to understand and to explain the story of human experience, since the past provides the only laboratory of human experience actually lived. Historical study complements and builds on the foundational courses in the core through its appreciation of the complexity of humankind, recognizing in the people who make history the intellectual, the material, social, and spiritual diversity of the human condition. History further advances the goals of the core curriculum through an interdisciplinary methodology that seeks to reconstruct our collective past. It is the story of individuals, and the story of the political, religious, economic, and social ideologies and institutions they create in their search for identity,

purpose, and value. History recognizes both the commonality of the human experience and the reality of cultural, class, racial, and gender distinctions that enrich that experience.

Program [History](#)
Degree Type Minor

MINOR: History (18 credits)

A minor is open to all students and requires 6 history courses for 18 credits, these 18 credit hours must include one specially designated core course.

History Courses (18 cr) – Select 6 Classes in AAH 1101, 1102, HIS 0000:9999, or any course with the HIS attribute.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- History Minors must earn at least half (9 credits/3 courses) at Villanova
- See History Department Undergraduate Programs website for details on AP Credit Policy as it related to Major/Minor.

Legal Studies Minor

Chair: Lynne Hartnett, Ph.D.
Office Location: 403 Saint Augustine Center
Telephone: 610-519-7219
[\[Website\]](#)

About

The History Department at Villanova offers students a dynamic liberal arts education with courses that span from antiquity to the modern world and traverse every region of the globe. The undergraduate History program focuses on the attainment of deep historical knowledge and a critical understanding of the enduring influence of the past on contemporary societies. The Faculty members of the History Department work closely with our students and prioritize individual development. Our courses provide the essential transferable skills that make our students competitive on the job market after graduation, prepare them for graduate and

professional training, and stimulate the intellectual curiosity our students need to become engaged citizens of the world.

History seeks to understand and to explain the story of human experience, since the past provides the only laboratory of human experience actually lived. Historical study complements and builds on the foundational courses in the core through its appreciation of the complexity of humankind, recognizing in the people who make history the intellectual, the material, social, and spiritual diversity of the human condition. History further advances the goals of the core curriculum through an interdisciplinary methodology that seeks to reconstruct our collective past. It is the story of individuals, and the story of the political, religious, economic, and social ideologies and institutions they create in their search for identity, purpose, and value. History recognizes both the commonality of the human experience and the reality of cultural, class, racial, and gender distinctions that enrich that experience.

Program [History](#)
Degree Type Minor

MINOR: Legal Studies (19 credits)

The minor is open to all students. 19 Credits are required, at least 9 credits of which must be completed within the Department of History.

The Legal Studies minor enables students additional opportunities to hone their expository writing skills, strengthen their ability to construct and present persuasive written and oral arguments, and engage in the type of analysis needed for success as legal professionals. In addition to specific courses offered by the Department of History, the Legal Studies requires students to select from a set of distinctive courses regularly offered by the Departments of Political Science, English, Communication, Philosophy and Sociology/Criminology and Arts and Science Professional Development.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
	Pre-Law History Electives	9
	Pre-Law Electives	9
	ASPD for Pre-Law	1

Pre-Law History Electives

Elective Credits 9

Choose any course from the list below or any course with the HIS subject code and the Pre-Law (PLAW) attribute.

Course	Title	Credits
HIS 1250	Top in Ancient Civilizations	3
HIS 2161	Revolutionary & Fed Amer	3
HIS 2181	Civil War & Reconstruct	3
HIS 2292	African Amer His since Emancip	3
HIS 2998	Topics in American History	3

Pre-Law Electives

Elective Credits 9

Three courses from the list below or any course with the Pre-Law attribute (PLAW). Three ASPD courses can be bundled together to satisfy one of the elective requirements.

ENG 1975 may count toward this elective requirement if it has the Pre-Law attribute (PLAW).

Course	Title	Credits
COM 3203	Communication Law & Policy	3
COM 3204	Rhetoric and Democracy	3
CRM 1001	Introduction to Criminology	3
CRM 3001	Justice and Society	3
CRM 3100	Juvenile Delinquency	3
CRM 3300	Criminal Courts	3
CRM 3350	The Supreme Court	3
CRM 3700	White Collar Crime	3
CRM 5100	Criminological Theory	3
HIS 1250	Top in Ancient Civilizations	3
HIS 2161	Revolutionary & Fed Amer	3
HIS 2181	Civil War & Reconstruct	3
HIS 2292	African Amer His since Emancip	3
HIS 2998	Topics in American History	3
PA 2000	Public Policy	3
PHI 2010	Logic & Critical Thinking	3
PJ 5100	Discrimination, Justice & Law	3
PSC 2140	US Con Law I: Powers&Struct	3
PSC 2145	US Con Law II:Rights&Lib	3
PSC 2220	International Law	3
SOC 3300	Sociology of Law	3
SOC 3400	Health, Medicine & Society	3

ASPD Bundle Option

Course	Title	Credits
ASPD 2002	The Legal Profession	1
ASPD 2030	Introduction to Law School	1
ASPD 2031	LSAT Prep	1

ASPD for Pre-Law

Elective Credits 1

Choose one ASPD Pre-Law course from the offerings below.

Course	Title	Credits
ASPD 2002	The Legal Profession	1
ASPD 2029	Applying to Law School	1
ASPD 2030	Introduction to Law School	1

Humanities

Humanities Major

Chair: Michael Tomko, Ph.D.
Office Location: 304 Saint Augustine Center
Telephone: 610-519-6165
[Website](#)

About

The Department of Humanities offers a pioneering “Great Questions” liberal arts major, which guides students through an integrated, interdisciplinary exploration of what it means to live a good and truly human life. Through dynamic Humanities Seminars on God, the Human Person, the Natural World, and Society and a wide selection of engaging elective Humanities Courses, the curriculum draws on wisdom ancient and new to inquire into the human condition and to seek knowledge to live by.

With roots in the Augustinian Intellectual Tradition, Humanities encourages critical, constructive, and creative thinking about what is needed for human flourishing today; fosters intellectual fellowship and community among students and faculty; and prepares students for their vocation in life.

Humanities faculty are specialists in complementary disciplines, including theology, philosophy, literature, political science, history, architecture, and economic history. Both flexible and comprehensive, Humanities offers classes that fulfill multiple requirements for the Core Curriculum.

Program [Humanities](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (30 credits)

All Humanities majors take four required Humanities Seminars on the “Great Questions”: God, the Human Person, the Natural World, and Society. The Senior Seminar, which we call the Senior Symposium, is the required capstone course. Students craft their own path for completing the major by choosing any combination of five elective Humanities Courses, three of which must be taken within the Department of Humanities.

There are no prerequisites for any Humanities classes. Humanities Seminars and elective Humanities Courses may be taken in any order. Many courses may fulfill Core Curriculum requirements.

Program Notes:

- Three of the five elective Humanities Courses must have the HUM subject code.

Course	Title	Credits
HUM 2001	THL:God	3
HUM 2002	Human Person	3
HUM 2003	PHI:World	3
HUM 2004	PSC:Society	3
HUM 6500	Senior Seminar	3
Humanities Elective for B.A.		15

Core Curriculum Requirements (41 credits)

Humanities Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Upper-Level Theology (3 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
PHI 1000	Knowledge, Reality, Self	3
THL 1000	Faith, Reason, and Culture	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (51 credits)

Students with a Humanities primary major have fifty-one (51) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 41 credits
- **Free Electives Credits:** 51 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Humanities as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Humanities Elective for B.A.

Elective Credits 15

Select 5 Classes in courses of 3 credits or more in HUM 1975, 2100:6950, or any course of three or more credits with the HUM attribute.

Humanities Minor

Chair: Michael Tomko, Ph.D.

Office Location: 304 Saint Augustine Center

Telephone: 610-519-6165

[Website](#)

About

The Department of Humanities offers a pioneering “Great Questions” liberal arts major, which guides students through an integrated, interdisciplinary exploration of what it means to live a good and truly human life. Through dynamic Humanities Seminars on God, the Human Person, the Natural World, and Society and a wide selection of engaging elective Humanities Courses, the curriculum draws on wisdom ancient and new to inquire into the human condition and to seek knowledge to live by.

With roots in the Augustinian Intellectual Tradition, Humanities encourages critical, constructive, and creative thinking about what is needed for human flourishing today; fosters intellectual fellowship and community among students and faculty; and prepares students for their vocation in life.

Humanities faculty are specialists in complementary disciplines, including theology, philosophy, literature, political science, history, architecture, and economic history. Both flexible

and comprehensive, Humanities offers classes that fulfill multiple requirements for the Core Curriculum.

Program [Humanities](#)
Degree Type Minor

MINOR: Humanities (15 credits)

Humanities minors take two of the four Humanities Seminars on the “Great Questions”: God, the Human Person, the Natural World, and Society. Students craft their own path for completing the minor by choosing any combination of three elective Humanities Courses, two of which must be taken within the Department of Humanities.

There are no prerequisites for any Humanities classes. Humanities Seminars and elective Humanities Courses may be taken in any order. Many courses may fulfill Core Curriculum requirements.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Two of the required Humanities Courses must have the HUM subject code.

Course	Title	Credits
	Humanities Seminar	6
	Humanities Elective for Minor	9

Humanities Seminar

Elective Credits 6

Choose two of the following:

Course	Title	Credits
HUM 2001	THL:God	3
HUM 2002	Human Person	3
HUM 2003	PHI:World	3
HUM 2004	PSC:Society	3

Humanities Elective for Minor

Elective Credits 9

Select 3 Classes in HUM 1975:6950 or any course of three or more credits with the HUM attribute.

Italian

Italian Major

Program Coordinator: James Kriesel, Ph.D.
Office Location: 333 Saint Augustine Center
Telephone: 610-519-4680
[Website](#)

About

Our current economic and social realities require a dynamic education. Italian Studies provides students with the analytic and creative thinking skills to engage a multimedia world of fraught complexities and exciting opportunities. Students develop advanced fluency in Italian and are exposed to all aspects of Italian culture—literature, visual art, film, music, etc. They gain perspective by studying one of the world’s most influential cultures, which is at the crossroads of the world’s eastern and western hemispheres.

Program [Italian](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 Credits)

Required Major Courses (31 credits)

The Italian Studies Program is designed to make students fluent in Italian, to expose them to Italian culture in all its aspects (literature, visual arts, design, history, cinema), to broaden their intellectual horizon, and to introduce them to the professional world. Italian offers a flexible major or minor, which can be easily combined with majors in psychology, communications, humanities, economics, business, nursing, law and politics.

Program Notes:

- Students may transfer 2 courses (6 cr) taken abroad toward the major.
- Students have the option of taking two courses taught in English - a maximum of 2 classes with the subject ITA and attribute TENG.
 - 1 may be offered in another department if student presents rationale (scheduling conflicts, special interest, etc.); approval of director required prior to registration.

Course	Title	Credits
	Advanced Language and Contemporary-modern Italy	3
	Pre-20th Century Culture	3
	Non-literary Media including business, beauty, cinema, design, mental health, fashion, music, theatre, visual history of Italy	3
	Italian Electives	18
ITA 3971	Directed Research in Italian	1
	Italian Capstone Seminar	3

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (47 credits)

Students with an Italian Studies primary major have forty-seven (47) required free elective credits.

Degree Credit Summary

- **Major Credits:** 31 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 47 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Italian Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Advanced Language and Contemporary-modern Italy

Elective Credits 3

Selection one course in ITA 1130:1999 (3 cr).

Pre-20th Century Culture

Elective Credits 3

Select one course in ITA 2000:2999 or any course with the ITAC attribute worth at least 3 credits (3 cr).

Non-literary Media including business, beauty, cinema, design, mental health, fashion, music, theatre, visual history of Italy

Elective Credits 3

Select one ITA course with the ITAM attribute worth at least 3 credits (3 cr).

Italian Electives

Elective Credits 18

6 Courses in ITA 1111:9999 or any course with the ITA attribute worth 3 or more credits (18 cr).

Italian Capstone Seminar

Elective Credits 3

Select one course in ITA 3000:3999 except ITA 3412 (3 cr).

Italian Minor

Program Coordinator: James Kriesel, Ph.D.
Office Location: 333 Saint Augustine Center
Telephone: 610-519-4680
[Website](#)

About

Our current economic and social realities require a dynamic education. Italian Studies provides students with the analytic and creative thinking skills to engage a multimedia world of fraught complexities and exciting opportunities. Students develop advanced fluency in Italian and are exposed to all aspects of Italian culture—literature, visual art, film, music, etc. They gain perspective by studying one of the world's most influential cultures, which is at the crossroads of the world's eastern and western hemispheres.

Program [Italian](#)
Degree Type Minor

Minor: Italian (15 credits)

The minor is open to all students and requires 5 Italian courses of three credits or more at the ITA 1122-level and above.

Program Notes:

- Students may transfer 1 course (3 cr) taken abroad toward the minor (2 with the approval of the director).
- Students have the option of taking one course taught in English - a maximum of 1 class with the subject ITA and attribute TENG.
- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Latin American Studies

Latin American Studies Minor

Program Director: Raúl Diego Rivera Hernández, Ph.D.

Office Location: 341 Saint Augustine Center
Telephone: (610) 519-3018
[\[Website\]](#)

About

The Villanova Latin American Studies Program, established in 1988, offers students in all of the university's four undergraduate colleges the opportunity to acquire a broad multi-disciplinary understanding and appreciation of Latin America. Students may pursue either a minor or the more comprehensive major (GLAS). Both are designed to complement a variety of majors; many concentration and minor courses can also be used to satisfy core curriculum requirements.

Since language is essential to understanding any culture, a degree of language proficiency is an integral part of both the major and the minor. And, since living in Latin America offers invaluable experience in language, culture, and contemporary life issues, students in the program are strongly encouraged to spend a summer or semester in the region.

Program [Latin American Studies](#)
Degree Type Minor

MINOR: Latin American Studies (18 credits)

A minor is open to all students and requires 6 courses for 18 credits.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- The Latin American Studies program allows up to two courses, or six credits, to be counted in both the LAS minor and the Spanish major or minor. Overall, no more than two courses, or six credits, from the department of Spanish Studies may count as electives for the LAS minor.

Course	Title	Credits
	LAS Elective	12
	Spanish Elective	6

Major (34 credits)

The Department of Global Interdisciplinary Studies (GIS) offers a major with a specialization in Latin American Studies. Please see [that page](#) for detailed requirements of the major.

LAS Elective

Elective Credits 12

Four elective courses with the LAS attribute (12 cr).

Spanish Elective

Elective Credits 6

Two Spanish courses at the intermediate level (1121 and 1122) or above (6 cr).

Liberal Arts

Liberal Arts Major

Chair: Susan Jacobs, M.A.
Office Location: 107 Saint Augustine Center
Telephone: 610-519-3900

About

The Liberal Arts Major is a rigorous academic major, which requires students to complete an intensive course of study that includes at least 122 credits. The Liberal Arts Major requires a plan of study outlined with a faculty advisor as part of the application process and is granted by special permission from the Assistant Dean for Undergraduate Students. Please contact OUS for more details.

Program [Liberal Arts](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (30 credits)

The Liberal Arts Major requires a plan of study outlined with a faculty advisor as part of the application process and is granted by special permission from the Assistant Dean for Undergraduate Students. Please contact OUS for more details.

Program Notes:

- Due to the unique nature of the Liberal Arts major, the Research and Capstone courses would be individually chosen in conjunction with the program advisor.

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (48 credits)

Students with a Liberal Arts primary major have forty-eight (48) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 48 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Liberal Arts as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Liberal Arts Major (SCI Phoenix)

Program Director: Kate Meloney, M.S.S., M.L.S.P.
Office Location: 107 Saint Augustine Center
Telephone: 610-519-3900
Email: Katherine.Meloney@villanova.edu

About

The Liberal Arts Major is a rigorous academic major, which requires students to complete an intensive course of study that includes at least 122 credits.

Program [Liberal Arts](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (30 credits)

The Liberal Arts Major (SCI Phoenix) is designed to mirror as closely as possible the standard Liberal Arts Major at Villanova University.

Program Notes:

- This program is expressly for students enrolled at the SCI Phoenix campus.

Core Curriculum Requirements (42 credits)

Program Notes:

- The core is designed to mirror the standard core as closely as possible with only minor modifications.

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Fine Arts (1 course)	3
	History (1 course)	3
	Literature and Writing (1 course)	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses)	6
	Philosophy (1 course)	3
	Social Sciences (2 courses)	6
	Theology (2 courses)	6
	Language Requirement (1 Course)	
	Diversity Requirement (2 courses)	

Free Elective Requirement (50 credits)

Students with a Liberal Arts (SCI Phoenix) primary major have fifty (50) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 42 credits
- **Free Electives Credits:** 50 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

History (1 course)

Elective Credits 3

This requirement is met by taking any course with the HIS subject code or any course with the CHIS attribute.

Literature and Writing (1 course)

Elective Credits 3

All students take a thematic literature and writing seminar course. ENG 1975 or any course with the CLWS attribute fulfill the requirement.

Natural Science (2 courses)

Elective Credits 6

This requirement is met by taking two courses in AST, BIO, CHM, GEV, MSE, or PHY.

Philosophy (1 course)

Elective Credits 3

This requirement is met by taking PHI 1000 or any course with the PHI subject code.

Social Sciences (2 courses)

Elective Credits 6

Students satisfy the requirement by taking two courses with the CSSC attribute or any two courses with the CRM, ECO, PA, PSC, PSY, or SOC subject code.

Theology (2 courses)

Elective Credits 6

This requirement is met by taking two courses with the THL subject code or the CTHL attribute .

Language Requirement (1 Course)

This requirement is met by taking one course with the LWC attribute.

Mathematics and Statistics

Mathematics Major

Chair: Timothy Feeman, Ph.D.
Office Location: 305 Saint Augustine Center
Telephone: 610-519-4850
[Website](#)

About

The Department of Mathematics & Statistics offers a standard course of study for a mathematics major to provide the student with an introduction to the major branches of mathematics as an academic discipline within the context of a comprehensive education in the liberal arts and sciences. Students who complete the Mathematics program will be prepared for a broad range of opportunities in business, government, and service industries, as well as being prepared to undertake graduate study in mathematics and related disciplines.

Program [Mathematics and Statistics](#)
Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Required Major Courses (59 credits)

The program leading to a degree of Bachelor of Science with a Mathematics major is designed to introduce students to the major aspects of contemporary mathematics.

By selecting appropriate electives students may become well prepared either for positions in industry or for graduate study in mathematics and related disciplines. The mathematics major can prepare one for a career in actuarial science, operations research, computer science, statistics, biostatistics, mathematical physics, or any of many other areas which use mathematics.

Program Notes:

- A student pursuing a double major in mathematics and some other field may petition to have an approved upper-division course from their other major count as one of the four math electives. The course must have substantial mathematical content and may not significantly overlap with any of the other courses that the student is counting towards the major. A student pursuing a double major in mathematics and a closely related field such as computer science or engineering may petition to have two approved upper-division courses from their other major count as math electives.
- MAT majors may only count one course outside of the MAT and STAT subject code toward their elective credit within the major.

Course	Title	Credits
MAT 1000	Math and Stat Communities	1
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
MAT 2500	Calculus III	4
MAT 2600	Mathematical Reasoning & Proof	3
MAT 2705	Diff Equation with Linear Alg	4
MAT 3300	Advanced Calculus	3
MAT 3400	Linear Algebra	3
MAT 3500	Modern Algebra I	3
MAT 5900	Seminar in Mathematics	3
	MAT Upper-Level Analysis	3
	Mathematics & Statistics	12
	Electives	
	MAT Natural Science Elective	8

Core Curriculum Requirements (33 credits)

Mathematics Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (30 credits)

Students with a Mathematics primary major have thirty (30) required free elective credits.

Degree Credit Summary

- **Major Credits:** 59 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 30 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Mathematics as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

MAT Upper-Level Analysis

Elective Credits 3

Choose an approved upper-level analysis course from the list below(3 cr).

- Note: MAT 5700 and 8400 are inactive courses that satisfy this requirement.

Course	Title	Credits
MAT 4270	Numerical Analysis	3
MAT 5400	Complex Analysis	3
MAT 5600	Differential Geometry	3
STAT 5700	Probability	3

Mathematics & Statistics Electives

Elective Credits 12

12 credits in MAT or STAT courses numbered 3000 or higher.

MAT Natural Science Elective

Elective Credits 8

Choose a two-semester sequence of natural science courses with lab at the science-major level from those listed below (8 cr minimum).

Astronomy Sequence

Course	Title	Credits
AST 2122	Understanding Our Universe	3
MSE 2151	AST:Astronomy Lab - Stars	1
AST 2121	Solar System Astronomy	3
MSE 2150	AST:Astronomy Lab - Planets	1

Biology Sequence

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4

Chemistry Sequence

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1

Environmental Science Sequence

Course	Title	Credits
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4

Physics Sequence, Option 1

Course	Title	Credits
PHY 1100	General Physics I	3
PHY 1101	General Physics I Lab	1
PHY 1102	General Physics II	3
PHY 1103	General Physics II Lab	1

Physics Sequence, Option 2

Course	Title	Credits
PHY 2410	University Phy:Mechanics	3
PHY 2411	Lab: Mechanics	1
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2413	Lab:Elec & Magnetism	1

Additional Math Science Elective

Elective Credits 4

Choose one additional science course at the science-major level with lab if appropriate (4 cr minimum).

Biology Selection 1

Select 1 class:

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4

Environmental Science Section 1

or 1 class:

Course	Title	Credits
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4

Chemistry Selection 1

or 2 classes in:

Course	Title	Credits
CHM 1103	General Chemistry Lab I	1
CHM 1151	General Chemistry I	4

Chemistry Selection 2

or 2 classes in:

Course	Title	Credits
CHM 1104	General Chemistry Lab II	1
CHM 1152	General Chemistry II	4

Chemistry Selection 3

Or 2 classes in:

Course	Title	Credits
CHM 2201	Organic Chemistry Lab I	1
CHM 2211	Organic Chemistry I	3

Computer Science Selection 1

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4

Physics Selection 1

or 2 classes in:

Course	Title	Credits
PHY 2410	University Phy:Mechanics	3
PHY 2411	Lab: Mechanics	1

Physics Selection 2

or 2 classes in:

Course	Title	Credits
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2413	Lab:Elec & Magnetism	1

Physics Selection 3

or 2 classes in:

Course	Title	Credits
PHY 2415	Lab: Thermodynamics	1

Statistics Major

Chair: Timothy Feeman, Ph.D.

Office Location: 305 Saint Augustine Center

Telephone: 610-519-4850

[Website](#)

About

A major in Statistics provides students with the statistical expertise needed to secure employment in statistics and related fields, such as data science and biostatistics.

Program [Mathematics and Statistics](#)

Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Students who are interested in the Major in Statistics should state this intention in their initial application to Villanova. Alternatively, after starting as a student at Villanova, students can switch to a Statistics Major or, if they are initially undeclared, declare a Statistics Major.

Required Major Courses (55 credits)

Course	Title	Credits
MAT 1000	Math and Stat Communities	1
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
MAT 2500	Calculus III	4
	Linear Algebra Course	3
STAT 4310	Stat Methods	3
STAT 4315	Applied Statistical Models	3
STAT 4380	Data Science	3
STAT 5700	Probability	3
STAT 5705	Theory of Stat Inference	3
CSC 1051	Algorithms & Data Struc I	4
	Statistics Major Electives	9
	Statistics Natural Science Elective	8
STAT 5905	Seminar in Statistics	3

Core Curriculum Requirements (33 credits)

Statistics Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (34 credits)

Students with a Statistics primary major have thirty-four (34) required free elective credits.

Degree Credit Summary

- **Major Credits:** 55 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 34 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Statistics as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Linear Algebra Course

Elective Credits 3

Select one linear algebra course from below.

Course	Title	Credits
MAT 2705	Diff Equation with Linear Alg 4	
MAT 3100	Applied Linear Algebra	3

Statistics Major Electives

Elective Credits 9

Any three courses with the subject code STAT numbered 3000:9000 or from the list below.

Course	Title	Credits
MAT 4600	Deterministic Oper Res	3

Statistics Natural Science Elective

Elective Credits 8

Choose two natural science courses with lab at the science-major level.

Astronomy

Course	Title	Credits
AST 2122	Understanding Our Universe	3
MSE 2151	AST:Astronomy Lab - Stars	1
AST 2121	Solar System Astronomy	3
MSE 2150	AST:Astronomy Lab - Planets	1

Biology

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4

Chemistry

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1152	General Chemistry II	4
CHM 1103	General Chemistry Lab I	1
CHM 1104	General Chemistry Lab II	1

Environmental Science

Course	Title	Credits
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4

Physics, Option 1

Course	Title	Credits
PHY 1100	General Physics I	3
PHY 1101	General Physics I Lab	1
PHY 1102	General Physics II	3
PHY 1103	General Physics II Lab	1

Physics, Option 2

Course	Title	Credits
PHY 2410	University Phy:Mechanics	3
PHY 2411	Lab: Mechanics	1
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2413	Lab:Elec & Magnetism	1

Mathematics Minor

Chair: Timothy Feeman, Ph.D.

Office Location: 305 Saint Augustine Center

Telephone: 610-519-4850

[Website](#)

About

Pursuing a minor in mathematics is a way for students who are not mathematics majors to demonstrate expertise in mathematics.

Program [Mathematics and Statistics](#)

Degree Type Minor

MINOR: Mathematics (24 credits)

Students who plan to get a minor in mathematics should declare their intention as early as possible. Students may consult the mathematics minor coordinator at any time for information and advice. If all requirements for the minor are satisfied, then the minor will appear on the student's transcript.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
MAT 2500	Calculus III	4
	Mathematics & Statistics Electives for Minor	12

Mathematics & Statistics Electives for Minor

Elective Credits 12

Select 4 classes in MAT 2600, 2705, 3000:9999, STAT 3000:9999 (12 cr).

- STAT Majors only: Students may count only one STAT course numbered 3000:9999 (3 cr.) towards both the STAT Major and MAT Minor.

Statistics Minor

Chair: Timothy Feeman, Ph.D.
Office Location: 305 Saint Augustine Center
Telephone: 610-519-4850
[Website](#)

About

Pursuing a minor in statistics is a way for students who are not statistics majors to demonstrate expertise in statistics.

Program [Mathematics and Statistics](#)
Degree Type Minor

MINOR: Statistics (27 credits)

Students who plan to get a minor in statistics should declare their intention as early as possible. Students may consult the statistics minor coordinator at any time for information and advice. If all requirements for the minor are satisfied, then the minor will appear on the student's transcript.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- A student who is not a mathematics major may petition to have an upper-division course from their major count as one of the two statistics electives. The course must have substantial statistical content and must not substantially overlap with any of the other courses that the student is counting towards the minor.
- For mathematics majors, four courses may be counted towards both the mathematics major and the statistics minor: MAT 1500, 1505, 2500 and either STAT 4310 or STAT 5700. No other courses count towards both. Thus, obtaining the statistics minor requires taking four additional courses beyond those required for the mathematics major.
- For those students who pursue both the mathematics minor and the statistics minor, exactly four courses (no more) may be counted towards both minors simultaneously: MAT 1500, MAT 1505, MAT 2500, and STAT 4310. No other courses count towards both. Thus, obtaining the statistics minor requires taking four additional courses beyond those required for the mathematics minor.
- For students doing the Applied Quantitative Finance concentration, STAT 4310 can be replaced with an extra elective chosen from MAT 4600 and three-credit STAT courses numbered 3000 and above.

Course	Title	Credits
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
MAT 2500	Calculus III	4
STAT 4310	Stat Methods	3
STAT 4315	Applied Statistical Models	3
STAT 5700	Probability	3

Two Statistics Electives for the Minor

Elective Credits 6

Students take two courses for 6 cr from the options below.

- One course must be either MAT 4600 or a STAT course of 3000 or above (3 cr).
- One course must be from this list: BIO 3105, ECO 3137, ECE 2292, MGT 3170, PSY 2050, STAT 3000:9999, or any course with the STA attribute (3 cr).
- One of the two electives may be obtained by bundling one-credit and two-credit STAT courses (or approved MAT courses) numbered 3000 and above.

Military Science (Army ROTC)

Military Sciences (Army ROTC)

Director: Major Matthew Berg, U.S. Army
Telephone: 610-490-7037

About

Villanova students are eligible to participate in the Army Reserve Officers Training Corps (ROTC) Program through a partnership agreement with the Widener University Department of Military Science. Army ROTC offers students the opportunity to graduate with a college degree and a commission in the United States Army, Army National Guard, or United States Army Reserve. All Army ROTC classes are conducted on the Villanova University campus.

Detailed information may be obtained from the Professor of Military Science, Widener University, Chester, PA 19013, (610) 499-4098. Go to www.armyrotc.villanova.edu for further details.

Program [Military Science \(Army ROTC\)](#)
Degree Type Program

MINOR: Military Science (18 credits)

Program Notes:

- Weekly labs are held on Tuesdays at West Chester University.
- Physical fitness held various mornings throughout the week.
- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
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Naval Science (Navy ROTC)

Naval Science Program and Minor (Navy ROTC)

Executive Officer of NROTC: CDR Jerod Konowal, USN
Telephone: 610-490-7380

About

Villanova University, in a long-standing relationship with the United States Navy, maintains one of approximately 60 Naval Reserve Officers Training Corps units in the United States. The objective of the Unit is to educate prospective officers for the Navy and Marine Corps. Reserve commissions as Ensign or 2nd Lieutenant are awarded upon successful completion of prescribed naval science courses and graduation from the University. These commissioned officers will serve on active duty for a period of four to nine years, depending upon choice of warfare specialty.

All Scholarship and College Program students may select any major at the University. Midshipmen at Villanova study in a wide variety of majors in engineering, arts, sciences, business, and nursing. Detailed NROTC information may be obtained from the Naval Science Office, Room 103, John Barry Hall.

Program [Naval Science \(Navy ROTC\)](#)
Degree Type Program

MINOR: Naval Science (23 credits)

Program notes:

- Students typically take 8 instances of NS 0100 - Naval Professional Lab (a 0cr course which meets once weekly, taken each semester). Accommodations can be made depending on course load and availability.
- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
NS 1000	Intro to Naval Science	2
NS 1100	Seapower and Maritime Affairs	3
NS 2100	Naval Ships Systems I	3
NS 2200	Naval Ships Systems II	3
NS 3100	Navigation	3
NS 3200	Naval Operations	3
NS 4100	Leadership and Management	3
NS 4200	Leadership and Ethics	3
NS 0100	Naval Professional Lab	0

MINOR: Marine Corps Option (14 Credits)

Program notes:

- Students typically take 8 instances of NS 0100 - Naval Professional Lab (a 0cr course which meets once weekly, taken each semester). Accommodations can be made depending on course load and availability.
- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
NS 1000	Intro to Naval Science	2
NS 1100	Seapower and Maritime Affairs	3
NS 3600	Fundamentals of Maneuver Warfare	3
NS 4100	Leadership and Management	3
NS 4200	Leadership and Ethics	3
NS 0100	Naval Professional Lab	0

Peace and Justice

- [Peace and Justice, B.A. \(GIS\)](#)

Location: Corr Hall, Rm. 106

Peace and Justice Minor

Chair: Kathryn Getek Soltis, S.T.L., Ph.D.

Office Location: 108 St. Rita Hall

Telephone: 610-519-6849

[\[Website\]](#)

About

The interdisciplinary curriculum of the Center for Peace and Justice Education is rooted in Villanova's Augustinian tradition of education in the service of peace and social justice, with particular emphasis on the poor and marginalized in society. Students are prepared to understand the essential elements of a moral and just society, reflect on models for socially responsible resolution of injustice and conflict, and learn the necessary skills to be advocates for a just and peaceful world.

Program [Peace and Justice](#)

Degree Type Minor

MINOR: Peace & Justice (18 credits)

To complete a minor in Peace and Justice, students must take six courses, including one of the foundational courses and five other courses in Peace and Justice, courses with a Peace and Justice attribute, or courses otherwise earning Peace and Justice credit.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- PJ ePortfolio (three pieces of work and a short reflection).
 - PJ ePortfolio to be completed during Senior year.
- No more than three foundational courses may receive credit for the minor.
- Up to 3 credits in courses fewer than 3 credits with the PJ attribute can be bundled to count as one elective.

Course	Title	Credits
	PJ Foundational Course	3
	PJ Electives for the Minor	15

PJ Foundational Course

Elective Credits 3

Choose one Peace and Justice foundational course from the list below, or one 3-credit course with the RJDC attribute:

Course	Title	Credits
PJ 2250	Violence & Justice in the Wrlld	3
PHI 2450	Catholic Social Thought	3
PJ 2700	Peacemakers & Peacemaking	3
PJ 2800	Race, Class, & Gender	3

PJ Electives for the Minor

Elective Credits 15

5 Classes in courses of 3 credits or more in PJ 1000:9999, or any course number in any subject with PJ attribute (15 cr).

Philosophy

Philosophy Major

Chair: Julie R. Klein, Ph.D.

Office Location: 108 Saint Augustine Center

Telephone: 610-519-4690

[Website](#)

About

The Philosophy department offers interesting courses that help students better understand the world and their place in it. Philosophy courses teach students to analyze difficult texts, to write clearly and precisely, to defend their views with cogent arguments and to take pleasure in the struggle with complex ideas and questions.

Program [Philosophy](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (30 credits)

The philosophy major consists of 10 courses and 30 credits.

Double Majors

Because of the interdisciplinary nature of philosophy, the department welcomes and encourages double majors. With the permission of the chair, philosophy majors may count up to two related courses from the second major toward fulfillment of the philosophy major requirements.

Course	Title	Credits
PHI 1000	Knowledge, Reality, Self	3
	Ancient Philosophy Requirement	3
	Medieval Philosophy Requirement	3
	Modern Philosophy Requirement	3
	PHI Research Requirement	3
	Advanced Seminar for Philosophy Majors (Capstone)	3
	PHI Electives for B.A.	12

Core Curriculum Requirements (41 credits)

Philosophy Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Philosophy - PHI 1000 (3 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (51 credits)

Students with a Philosophy primary major have fifty-one (51) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 41 credits
- **Free Electives Credits:** 51 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Philosophy as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Ancient Philosophy Requirement

Elective Credits 3

Choose one of the following Ancient Philosophy courses or an approved Topics course.

Course	Title	Credits
PHI 3020	History of Ancient Philosophy	3

Medieval Philosophy Requirement

Elective Credits 3

Choose one of the following medieval philosophy courses, or an approved Topics course.

Course	Title	Credits
PHI 3030	History of Medieval Philosophy	3
PHI 3100	Augustine & Antiquity	3
PHI 3160	History of Islamic Phil	3

Modern Philosophy Requirement

Elective Credits 3

Choose one of the following Modern Philosophy courses or an approved Topics course.

Course	Title	Credits
PHI 3040	Hist of Early Mod Philosophy	3
PHI 3050	Kant & 19th Cent Philosophy	3
PHI 3720	Marx & Marxism	3

PHI Research Requirement

Elective Credits 3

All students must take either PHI 3000, 5000, or 6000 to fulfill the research requirement.

Advanced Seminar for Philosophy Majors (Capstone)

Elective Credits 3

Course	Title	Credits
PHI 5000	Adv Sem for Phil Majors	3
PHI 6000	Senior Thesis	3

PHI Electives for B.A.

Elective Credits 12

Choose 4 Philosophy courses worth 3 credits each from PHI 1000 or above for a total 12 credits

Philosophy Minor

Chair: Julie R. Klein, Ph.D.
Office Location: 108 Saint Augustine Center
Telephone: 610-519-4690
[Website](#)

About

The Philosophy department offers interesting courses that help students better understand the world and their place in it. Philosophy courses teach students to analyze difficult texts, to write clearly and precisely, to defend their views with cogent arguments and to take pleasure in the struggle with complex ideas and questions.

Program [Philosophy](#)
Degree Type Minor

MINOR: Philosophy (15 credits)

Philosophy minors take any five courses in the philosophy department.

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
	PHI Electives	15

PHI Electives

Elective Credits 15

Choose 5 Philosophy courses worth 3 credits each from PHI 1000 and above for a total 15 credits.

Physics

Physics Major (BS)

Chair: David Chuss, Ph.D.
Office Location: 347 Mendel Science Center
Telephone: 610-519-4860
[Website](#)

About

Physics is the human endeavor to understand the nature of matter, energy, and their governing interactions from the scale of subatomic particles to that of the cosmos. Through the interplay of theoretical effort and experimentation, physics strives to discover the mathematical laws of nature. As such, it both forms a foundation for a liberal arts education and provides a framework to address key challenges in our ever-changing technical world.

The Department of Physics at Villanova University is a nurturing, supportive, and inclusive academic community that strives to reflect the values of the University. We undertake our mission to educate undergraduate students in a broad range of experimental, theoretical, and computational methods through classroom and laboratory experiences. Our students address fundamental questions of nature through meaningful participation in faculty-led research that connects them with physicists around the world. The critical thinking and problem-solving skills learned by our students enable them to engage the diverse world beyond Villanova, whether they continue in the field of physics or choose to apply their educational experience to the challenges of another field.

Program [Physics](#)
Degree Type Bachelor of Science

PRIMARY MAJOR (123 credits)

Required Major Courses (B.S.) (72 credits)

The BS program consists of a rigorous and focused curriculum that provides a deep background in fundamental physics. The BS is excellent preparation for the student who aspires to graduate studies in Physics, but also provides comprehensive training in problem solving and critical thinking that are applicable to a wide range of career paths.

Course	Title	Credits
PHY 2001	Professional Development I	1
PHY 2001	Professional Development I	1
PHY 2001	Professional Development I	1
PHY 2002	Professional Development II	0
PHY 2002	Professional Development II	0
PHY 2002	Professional Development II	0
PHY 2420	Matter and Interactions I	3
PHY 2421	Lab: Matter and Interactions I	1
PHY 2422	Matter and Interactions II	3
PHY 2423	Lab: Matter and Interactions II	1
PHY 2601	Computational Phy Lab I	2
PHY 2603	Computational Phy Lab II	2
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
MAT 2500	Calculus III	4
MAT 2705	Diff Equation with Linear Alg	4
PHY 3200	Thermo, Optics and Waves	3
PHY 3400	Modern Physics	3
PHY 3310	Electronics	3
PHY 3311	Electronics Lab	1
PHY 4000	Elec & Magnetism I	3
PHY 4100	Mechanics I	3
PHY 4200	Mathematical Physics I	3
PHY 4801	Experimental Physics I	2
PHY 4803	Experimental Physics II	2
PHY 5100	Quantum Mechanics	3
PHY 5200	Thermo/Statistical Mech	3
PHY 5801	Research Experience I	3
PHY 5803	Research Experience II	3
	PHY Electives for B.S.	6

Core Curriculum Requirements (33 credits)

Physics BS Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life: Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (18 credits)

Students with a Physics BS primary major have eighteen (18) required free elective credits.

Degree Credit Summary

- **Major Credits:** 72 credits
- **Core Credits:** 33 credits
- **Free Electives Credits:** 18 credits
- **Total Required Credits:** 123 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Physics BS as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

PHY Electives for B.S.

Elective Credits 6

Select 2 Classes in PHY 3000:6700 for a total of 6 credits.

Physics Minor

Chair: David Chuss, Ph.D.
Office Location: 347 Mendel Science Center
Telephone: 610-519-4860
[Website](#)

About

Physics is the human endeavor to understand the nature of matter, energy, and their governing interactions from the scale of subatomic particles to that of the cosmos. Through the interplay of theoretical effort and experimentation, physics strives to discover the mathematical laws of nature. As such, it both forms a foundation for a liberal arts education and provides a framework to address key challenges in our ever-changing technical world.

The Department of Physics at Villanova University is a nurturing, supportive, and inclusive academic community that strives to reflect the values of the University. We undertake our mission to educate undergraduate students in a broad range of experimental, theoretical, and computational methods through classroom and laboratory experiences. Our students address fundamental questions of nature through meaningful participation in faculty-led research that connects them with physicists around the world. The critical thinking and problem-solving skills learned by our students enable them to engage the diverse world beyond Villanova, whether they continue in the field of physics or choose to apply their educational experience to the challenges of another field.

Program [Physics](#)
Degree Type Minor

MINOR: Physics (31 credits)

The Physics Department offers a minor in physics to qualified students whose major area of study lies outside of physics. In general, a student in any area of study, other than physics, may obtain a minor in physics.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- The Minor in Applied Physics for Math Majors requires all of the Math courses required for the Math degree, plus PHY 2410/2411, 2412/2413 (or PHY 2420/2421, 2422/2423), PHY 3200, PHY 3400, PHY 3310/3311 and PHY 4801/4803.

Course	Title	Credits
	PHY 2410 or 2420	3
	PHY 2411 or 2421	1
	PHY 2412 or 2422	3
	PHY 2413 or 2423	1
PHY 3200	Thermo, Optics and Waves	3
PHY 3400	Modern Physics	3
PHY 4801	Experimental Physics I	2
	Physics Elective for Minor	15

PHY 2410 or 2420

Elective Credits 3

Students choose either PHY 2410 or 2420.

Course	Title	Credits
PHY 2410	University Phy:Mechanics	3
PHY 2420	Matter and Interactions I	3

PHY 2411 or 2421

Elective Credits 1

Students choose either PHY 2411 or 2421.

Course	Title	Credits
PHY 2411	Lab: Mechanics	1
PHY 2421	Lab: Matter and Interactions I	1

PHY 2412 or 2422

Elective Credits 3

Students choose either PHY 2412 or 2422.

Course	Title	Credits
PHY 2412	Univ Physics:Elec & Mag	3
PHY 2422	Matter and Interactions II	3

PHY 2413 or 2423

Elective Credits 1

Students choose either PHY 2413 or 2423.

Course	Title	Credits
PHY 2413	Lab:Elec & Magnetism	1
PHY 2423	Lab:Matter and Interactions II	1

Physics Elective for Minor

Elective Credits 15

Select 5 Classes of 3 or more credits in PHY 2418:9999 for a total of 15 credits.

Political Science

Political Science Major

Chair: Camille Burge, Ph.D.
Office Location: 202 Saint Augustine Center
Telephone: 610-519-3978
[Website](#)

About

Today, no less than in the past, it is essential for citizens in a democracy to be educated about the political system in which they live and to know how that system relates to other governments and international issues. The study of political science will educate you about timely and important political issues on a national and global scale while helping you develop a set of analytical, reasoning and research skills to last a lifetime. As a political science major, you will learn about American politics, comparative politics, international relations and political

theory; become familiar with the methodology of social science inquiry and learn how to conduct research; build competence in oral and written expression; develop reasoning and analytical skills; become a politically engaged citizen-leader; prepare for any number of politically-oriented careers or for [graduate or professional training](#). As a political science major, you will learn how political leaders operate; governments make decisions; politics shapes public policy; governments respond to internal and international conflicts; people develop political attitudes and preferences; groups attempt to influence government; and governments can best serve their people.

Program [Political Science](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (33 credits)

In the context of the liberal arts tradition, the Department of Political Science seeks to encourage in its students a commitment to intellectual curiosity, academic excellence, and responsible civic engagement. The Department is committed to helping students improve their skills of observation, critical reading, rigorous thought, careful evidence-based argumentation, and effective communication, and to develop values of good citizenship.

Program Notes:

- Foundational courses should be taken immediately upon declaring the major. They serve as prerequisites for many of the upper division courses and the senior seminar.
- With the exception of internships (up to 3 credits), courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the major.
- Any senior with a GPA of 3.0 or above may request to take a graduate PSC course.
- Captstone: A student may substitute PSC 7000 and above for PSC 6900.

Course	Title	Credits
PSC 1100	American Government	3
PSC 1200	International Relations	3
PSC 1300	Comparative Politics	3
PSC 1400	Political Theory	3
PSC 1900	Research Seminar	3
PSC 6900	Political Sci Seminar	3
	Upper-Level PSC Electives for B.A.	15

Core Curriculum Requirements (38 credits)

Political Science Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (51 credits)

Students with a Political Science primary major have fifty-one (51) required free elective credits.

Degree Credit Summary

- **Major Credits:** 33 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 51 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Political Science as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

Upper-Level PSC Electives for B.A.

Elective Credits 15

Select any five courses of 3 or more credits numbered from PSC 2000:6899 or any courses with the PSC attribute (15 cr).

Political Science Minor

Chair: Camille Burge, Ph.D.
Office Location: 202 Saint Augustine Center
Telephone: 610-519-3978
[Website](#)

About

Today, no less than in the past, it is essential for citizens in a democracy to be educated about the political system in which they live and to know how that system relates to other governments and international issues. The study of political science will educate you about timely and important political issues on a national and global scale while helping you develop a set of analytical, reasoning and research skills to last a lifetime. As a political science major, you will learn about American politics, comparative politics, international relations and political theory; become familiar with the methodology of social science inquiry and learn how to conduct research; build competence in oral and written expression; develop reasoning and analytical skills; become a politically engaged citizen-leader; prepare for any number of politically-oriented careers or for [graduate or professional training](#). As a political science major, you will learn how political leaders operate; governments make decisions; politics shapes public policy; governments respond to internal and international conflicts; people develop political attitudes and preferences; groups attempt to influence government; and governments can best serve their people.

Program [Political Science](#)
Degree Type Minor

MINOR: Political Science (18 credits)

A minor is open to all students and requires 6 courses and 18 credits.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students completing the minor are encouraged to focus on one or two subfields, although they are not required to do so.
- Internship credit will not be applied to the Political Science minor.

Course	Title	Credits
	PSC Foundational Elective	6
	Upper-Level PSC Electives for Minor	12

PSC Foundational Elective

Elective Credits 6

Choose at least two of the following foundational courses.

Course	Title	Credits
PSC 1100	American Government	3
PSC 1200	International Relations	3
PSC 1300	Comparative Politics	3
PSC 1400	Political Theory	3

Upper-Level PSC Electives for Minor

Elective Credits 12

Select any four courses with the PSC attribute or courses numbered from PSC 2000:6899 except PSC 6503 (12 cr).

Psychological and Brain Sciences

Psychology Major (BA)

Chair: Irene Kan, Ph.D.

Office Location: 334 Tolentine Hall

Telephone: 610-519-4722

[\[Website\]](#)

About

Psychology is the basic and applied science of mind and behavior. Psychologists use the methods of both natural and social science to advance our knowledge and understanding of thought, emotion, and behavior in humans and other organisms. Psychologists also apply this knowledge to improve the conditions of individuals and society. The Department of Psychological and Brain Sciences offers two majors in psychology, a Bachelor of Science (B.S.) with a Psychology major and a Bachelor of Arts (B.A.) with a Psychology major.

Program [Psychological and Brain Sciences](#)

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

To declare either major students must have completed PSY 1000 or PSY 1001, or have AP credit for PSY 1000. In addition, they must have a C+ or higher in PSY 1000 or PSY 1001, or have an overall minimum GPA of 3.00.

Required Major Courses (31 credits)

Program Notes:

- Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the major, except for PSY 2100: Seminar in Professional Development.

Course	Title	Credits
	PSY 1000 or PSY 1001	3
PSY 2000	Intro Statistics	3
PSY 2050	Research Methods in Psy.	3
PSY 2100	Sem Professional Development	1
	PSY 4200 or PSY 4500	3
	Psychology Foundation Courses for B.A.	9
	Psychology Electives for B.A.6	
	Capstone: PSY 5150 or PSY 5250	3

Core Curriculum Requirements (38 credits)

Psychology BA Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (53 credits)

Students with a Psychology BA primary major have fifty-three (53) required free elective credits.

Degree Credit Summary

- **Major Credits:** 31 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 53 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Psychology BA as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

PSY 1000 or PSY 1001

Elective Credits 3

PSY 1000 and PSY 1001 are mutually exclusive courses; students take one or the other.

Course	Title	Credits
PSY 1000	General Psychology	3
PSY 1001	Intro to Brain and Behavior	3

PSY 4200 or PSY 4500

Elective Credits 3

Course	Title	Credits
PSY 4200	Biopsychology	3
PSY 4500	Cognitive Psychology	3

Psychology Foundation Courses for B.A.

Elective Credits 9

Select 3 Classes of three or more credits in PSY 3000:4500 (9 cr).

Psychology Electives for B.A.

Elective Credits 6

Select 2 Classes of three or more credits in PSY 2000:7999, or any course with the PSY attribute.

Capstone: PSY 5150 or PSY 5250

Elective Credits 3

Course	Title	Credits
PSY 5150	Foundations of Modern Psych	3
PSY 5250	Contemp Research Issues in Psy	3

Cognitive and Behavioral Neuroscience Major

Chair: Irene Kan, Ph.D.

Office Location: Tolentine Hall, Room 334

Telephone: (610) 519-4720

About

The major in Cognitive and Behavioral Neuroscience (CBN) provides an intensive course of study focused on brain-behavior relationships, ranging from genetic to whole brain contributions to behavior and mental processes. The program is excellent preparation for a variety of careers focusing on research and/or practice in neuroscience, medicine, allied health fields, and psychology, as well as for more general careers in areas such as public policy and education.

Program [Psychological and Brain Sciences](#)
Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

Students are accepted into Villanova University as declared CBN majors. Therefore, prospective students who are interested in the major should select the CBN program when applying to the University. Students who have already entered Villanova may appeal directly to the Department of Psychological and Brain Sciences for special permission into the major.

Required Major Courses (65 credits)

Program Notes:

- PSY 2900 is a topics course and the topic must be approved for it to count as a CBN elective. The following topics have been approved: "Drugs & Behavior", "Emotion", "Neuroethics". Other topics do not count without approval.
- BIO 4950 is a topics course and the topic must be approved for it to count as a CBN elective. The following topic has been approved: "Sex, Brains & Behavior. Other topics do not count without approval.
- PSY 5900 is an independent research course and can count as a CBN elective only with pre-approval

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
BIO 3351	Genetics	4
	MAT 1312 or MAT 1500	4
	MAT 1314 or MAT 1505	3-4
	PSY 1000 or PSY 1001 for CBN	3
PSY 2000	Intro Statistics	3
PSY 2050	Research Methods in Psy.	3
PSY 4200	Biopsychology	3
PSY 4500	Cognitive Psychology	3
CBN 4000	Cell & Behavioral Neuroscience	3
CBN 4100	Cognitive Neuroscience	3
	CBN 5000 or CBN 6002	3
	CBN Approved Elective	12

Core Curriculum Requirements (27 credits)

Biochemistry Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Social Sciences (6 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (30 credits)

Students with a Cognitive & Behavioral Neuroscience primary major have thirty (30) required free elective credits.

Degree Credit Summary

- **Major Credits:** 65 credits
- **Core Credits:** 27 credits
- **Free Electives Credits:** 30 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Cognitive & Behavioral Neuroscience as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

MAT 1312 or MAT 1500

Elective Credits 4

Biochemistry Majors:

MAT 1312 may only count toward the requirements of the biochemistry major with permission of the program director.

CBN Majors:

- MAT 1312 and MAT 1314 must be taken as a sequence.
- MAT 1500 and MAT 1505 must be taken as a sequence.

Course	Title	Credits
MAT 1312	Biocalculus	4
MAT 1500	Calculus I	4

MAT 1314 or MAT 1505

Elective Credits 3-4

- MAT 1312 and MAT 1314 must be taken as a sequence.
- MAT 1500 and MAT 1505 must be taken as a sequence.

Course	Title	Credits
MAT 1314	Modeling for the Life Sciences	3
MAT 1505	Calculus II	4

PSY 1000 or PSY 1001 for CBN

Elective Credits 3

- PSY 1001 is recommended by the department.

Course	Title	Credits
PSY 1000	General Psychology	3
PSY 1001	Intro to Brain and Behavior	3

CBN 5000 or CBN 6002

Elective Credits 3

Course	Title	Credits
CBN 5000	Seminar in Neuroscience	3
CBN 6002	Thesis Research II	3

CBN Approved Elective

Elective Credits 12

CBN students are required to take four elective courses. Although the electives are organized into four categories, there is no requirement to use this organization when selecting electives. Students can choose to concentrate in a particular area by taking electives from one category or they can sample broadly across any or all categories.

Notes:

- Students should consult individual courses via the courses tool to determine pre-requisites.
- The 1-credit lab is optional when taking BIO 4251 and CHM 4611.
- BIO 4950 courses offered are available in the Master Schedule accessible through MyNova but must be approved by the CBN program.
 - Already pre-approved as CBN elective: "Sex, Brains & Behavior"
- CHM 4621 is recommended for Chemistry and Biochemistry majors.
- PSY 2900 courses offered are available in the Master Schedule accessible through MyNova but must be approved by the CBN program.
- There is restriction such that no more than 2 courses (6 credits) of the CBN elective requirement may come from: PSY 5900, CBN 5900, CBN 6001, CBN 6002.
- Any course with the Cognitive and Behavioral Neuroscience attribute (CBN) may also count toward fulfilling the electives requirement.

Category 1 - Behavioral/ Psychological Science

Course	Title	Credits
PSY 3200	Human Development	3
PSY 3300	Perception	3
PSY 3500	Psych of Personality	3
PSY 3600	Social Psychology	3
PSY 3700	Psychopathology	3
PSY 3800	Clinical Psychology	3
PSY 4600	Animal Learning & Cognition	3

Category 2 - Biological/Life Science

Course	Title	Credits
BIO 3015	Animal Behavior	4
BIO 3055	Human Physiology	4
BIO 4205	Cell Biology	4
BIO 4251	Endocrine Physiol/ Pharmacology	3
BIO 4285	Developmental Biology	4
BIO 4305	Evolution	4
BIO 4505	Molecular Biology	4
BIO 4605	Neurobiology	4
BIO 4950	Advanced Topics in Biology	3
CHM 4611	Survey of Biochemistry	3
CHM 4621	Biochemistry I: Structure	3

Category 3 - Cognitive Science

Course	Title	Credits
PHI 4610	Philosophy of Mind	3
CGS 5900	Cognitive Science Seminar	3
CGS 5910	Psychology of Language	3
CSC 4500	Artificial Intelligence	3
CSC 4510	Machine Learn&Theory&Evolution	3

Category 4 - Special Topics & Research

- CBN 6002 generally counts as the required capstone course and NOT as an elective. It may count as an elective only if CBN 5000 is taken as the required capstone option.
- Courses above the 5000-level require approval from the department for enrollment.

Course	Title	Credits
CBN 5900	Undergraduate Research in CBN	3
PSY 5900	Independent Research Project	3
CBN 6001	Thesis Research I	3
CBN 6002	Thesis Research II	3

Psychology Major (BS)

Chair: Chair: Irene Kan, Ph.D.
Office Location: 334 Tolentine Hall
Telephone: 610-519-4722
[\[Website\]](#)

About

Psychology is the basic and applied science of mind and behavior. Psychologists use the methods of both natural and social science to advance our knowledge and understanding of thought, emotion, and behavior in humans and other organisms. Psychologists also apply this knowledge to improve the conditions of individuals and society. The Department of Psychological and Brain Sciences offers two majors in psychology, a Bachelor of Science (B.S.) with a Psychology major and a Bachelor of Arts (B.A.) with a Psychology major.

Program [Psychological and Brain Sciences](#)
Degree Type Bachelor of Science

PRIMARY MAJOR (122 credits)

To declare either major students must have completed PSY 1000 or PSY 1001, or have AP credit for PSY 1000. In addition, they must have a C+ or higher in PSY 1000 or PSY 1001, or have an overall minimum GPA of 3.00.

Required Major Courses (53 credits)

Program Notes:

- Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the major, except for PSY 2100: Seminar in Professional Development.

Course	Title	Credits
	PSY 1000 or PSY 1001	3
PSY 2000	Intro Statistics	3
PSY 2050	Research Methods in Psy.	3
PSY 2100	Sem Professional Development	1
PSY 4200	Biopsychology	3
PSY 4500	Cognitive Psychology	3
	Psychology Foundation Courses for B.S.	9
	Psychology Electives for B.S.	6
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
CSC 1051	Algorithms & Data Struc I	4
	Mathematics for Psychology B.S.	7-8
	Capstone: PSY 5150 or PSY 5250	3

Core Curriculum Requirements (27 credits)

Psychology BS Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Math (3 cr)
- Social Sciences (6 cr)
- Natural Science (8 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (42 credits)

Students with a Psychology BS primary major have forty-two (42) required free elective credits.

Degree Credit Summary

- **Major Credits:** 53 credits
- **Core Credits:** 27 credits
- **Free Electives Credits:** 42 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Psychology BS as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

PSY 1000 or PSY 1001

Elective Credits 3

PSY 1000 and PSY 1001 are mutually exclusive courses; students take one or the other.

Course	Title	Credits
PSY 1000	General Psychology	3
PSY 1001	Intro to Brain and Behavior	3

Psychology Foundation Courses for B.S.

Elective Credits 9

Select 3 Classes of three or more credits in PSY 3000:3999 (9 cr).

Psychology Electives for B.S.

Elective Credits 6

Select 2 Classes of three or more credits in PSY 2000:9999, or any course with the PSY attribute.

Mathematics for Psychology B.S.

Elective Credits 7-8

Select 1 option.

Option 1

Course	Title	Credits
MAT 1312	Biocalculus	4
MAT 1314	Modeling for the Life Sciences	3

Option 2

Course	Title	Credits
MAT 1500	Calculus I	4
MAT 1314	Modeling for the Life Sciences	3

Option 3

Course	Title	Credits
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4

Capstone: PSY 5150 or PSY 5250

Elective Credits 3

Course	Title	Credits
PSY 5150	Foundations of Modern Psych	3
PSY 5250	Contemp Research Issues in Psy	3

Psychology Minor

Chair: Chair: Irene Kan, Ph.D.

Office Location: 334 Tolentine Hall

Telephone: 610-519-4722

[\[Website\]](#)

About

Psychology is the basic and applied science of mind and behavior. Psychologists use the methods of both natural and social science to advance our knowledge and understanding of thought, emotion, and behavior in humans and other organisms. Psychologists also apply this knowledge to improve the conditions of individuals and society. The Department of Psychological and Brain Sciences offer two majors in psychology, a Bachelor of Science (B.S.) and a Bachelor of Arts (B.A.).

Program [Psychological and Brain Sciences](#)
Degree Type Minor

MINOR: Psychology (15 credits)

A minor is open to all students and requires 5 courses and 15 credits.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the minor.
- No more than two prior approved psychology courses may be taken at another institution (AP courses, transfer courses, courses taken abroad, etc.) and be counted toward the minor.
- Before declaring the psychology minor, students must have completed PSY 1000 or 1001 or have AP credit for PSY 1000.

Course	Title	Credits
	PSY 1000 or PSY 1001	3
	Psychology Electives for Minor	12

PSY 1000 or PSY 1001

Elective Credits 3

PSY 1000 and PSY 1001 are mutually exclusive courses; students take one or the other.

Course	Title	Credits
PSY 1000	General Psychology	3
PSY 1001	Intro to Brain and Behavior	3

Psychology Electives for Minor

Elective Credits 12

Select 4 Classes of three or more credits in PSY 2000:7999, or any course with the PSY attribute. (12 cr)

Public Administration

Public Service & Administration Major (BA)

Chair: Theodoros Arapis, Ph.D.
Office Location: Gary Hall, G43
Telephone: 610-519-3934
[Website](#)

The major in Public Service and Administration (PSA) in the College of Liberal Arts and Sciences (CLAS) provides undergraduate students with an interdisciplinary course of study to: (1) reflect on the long tradition of public service both in the United States and abroad; (2) engage critically with the scholarly literature in the field; (3) examine historical and modern-day examples of public service leadership; and (4) equip them with the relevant competencies and skills to lead and serve as ethical, intelligent, inclusive, and creative leaders in public service organizations, from nonprofit organizations, to local, state, and federal government, to the private sector.

Program [Public Administration](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (30 Credits)

All students majoring in PSA would be required to take the seven (7) courses listed below and at least one (1) elective PSA course.

Program Notes:

- **This major is the BA in CLAS. For the BIS see degree page entitled: 'Public Service & Administration Major (BIS)'.**
- Students would be permitted to count six (6) credits from already-approved courses in other departments towards the PSA major
- CPS students currently enrolled in the PSA major will complete the existing curriculum, but new CPS students enrolled in Fall 2022 will complete the new curriculum.
- CLAS students completing the PSA major will not be permitted to enroll in Fast Forward sections offered by CPS (unless they have been given special permission), but the CLAS students may take online PSA summer courses offered by CPS.

Course	Title	Credits
PA 1050	Public Administration	3
PA 2000	Public Policy	3
PA 4100	Public Budgeting	3
PA 4200	Organizational Development	3
PA 4500	Research Methods in Public Svc	3
PA 6000	Vocation of Public Service	3
	PA 6100 or PA 6201	3
	Public Service Electives	9

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (48 credits)

Students with a Public Service & Administration (BA) primary major have forty-eight (48) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 48 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Public Service & Administration (BA) as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

PA 6100 or PA 6201

Elective Credits 3

Students may take either course to fulfill the Internship requirement.

Course	Title	Credits
PA 6100	PSA Internship	3
PA 6201	Social Impact internship	3

Public Service Electives

Elective Credits 9

Students must take three electives worth 3cr each from the list below. At least one course must come from section A.

Section A

3 of these 9 credits must be taken in PSA.

Course	Title	Credits
PA 2100	City and Suburb	3
PA 3000	Overview of Non-Profit Sector	3
PA 5000	Special Topics	3
PA 5100	Independent Study	3

Section B

Students are permitted to count six credits from this list of already-approved courses in other departments towards the PSA Major.

Course	Title	Credits
COM 2440	Theories of Organizational Com	3
COM 3203	Communication Law & Policy	3
CRM 3001	Justice and Society	3
ECO 3112	Public Sector Economics	3
ECO 3127	Development Economics	3
ECO 3140	Urban Economics	3
EDU 3253	Educational Policy Analysis	3
GEV 3001	Intro to Sustainability Study	3
GEV 3308	Environmental Health	3
GEV 3570	Land Use Planning & Mgmt	3
GEV 4310	Environmental Issues Seminar	3
GEV 4330	Spec Topics in Environm Policy	3
GEV 4340	Spec Topics in Environm Issues	3
GEV 4350	Spec Topics in Environm Sci	3
HUM 2002	Human Person	3
HUM 2004	PSC:Society	3
HUM 2900	Topics	3
MGT 2155	Organizational Behavior	3
MGT 2360	Global Leadership	3
NS 4100	Leadership and Management	3
NS 4200	Leadership and Ethics	3
NUR 3122	Imper for Global & Pub Health	3
NUR 4114	Nursing and Health Policy	2
PJ 2500	Education & Social Justice	3
PJ 2700	Peacemakers & Peacemaking	3
PJ 2800	Race, Class, & Gender	3
PJ 5100	Discrimination, Justice & Law	3
PSC 2110	U.S. State & Local Government	3
PSC 2125	U.S. Presidency	3
PSC 2180	U.S. National Security Policy	3
PSC 2210	Globalization	3
PSC 2230	International Organization	3
PSC 2240	Internat'l Political Economy	3
PSC 3140	Race, Ethnicity & Pol. in U.S.	3
PSC 3210	American Foreign Policy	3
PSC 3230	Development and Aid	3
PSC 3250	Genocide and Mass Killing	3

THL 5000	THM Religion	3
VIA 3020	Creating Social Impact	3

Public Service & Administration Minor

Chair: Theodoros Arapis, Ph.D.
Office Location: Gary Hall, G43
Telephone: 610-519-3934
[Website](#)

About

The Department of Public Administration offers a Minor in Public Service and Administration for undergraduate students. The minor is an interdisciplinary course of study, open to students from all Colleges, that prepares students to be responsibly engaged citizens, government managers, and community leaders working in the “new public sector.” The “new public sector” refers to the complex relationships that exist between government at all levels, nonprofit organizations, higher education, and the private sector. Now more than ever before, these groups have been called upon to cooperate in order to address society’s most pressing and challenging problems.

Program [Public Administration](#)
Degree Type Minor

MINOR: Public Service & Administration (18 credits)

In the Public Service and Administration Minor, you will be introduced to ethical, philosophical, theological, historical, social, and political perspectives that influence the leadership and management of government and nonprofit organizations. The specific goals of this minor are to help prepare you to understand and pursue the common good; assist in the creation, implementation, and analysis of public programs; strengthen communities through innovative leadership and engaged citizenship; reflect on how the citizen as public servant discovers meaning and purpose in one’s life by forging and developing the bonds of community.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- At least four of the courses (12 credits) must be within the Department of Public Administration and up to two pre-approved elective courses (6 credits) may be taken outside of the Department’s course offerings.
- All service learning courses can be approved as electives towards the Minor.
- CLAS students completing the PSA major will not be permitted to enroll in Fast Forward sections offered by CPS (unless they have been given special permission), but the CLAS students may take online PSA summer courses offered by CPS.

Course	Title	Credits
PA 1050	Public Administration	3
	PA 2000 or PA 6000	3
	Public Administration Electives	6
	Additional Public Administration Electives	6

PA 2000 or PA 6000

Elective Credits 3

Course	Title	Credits
PA 2000	Public Policy	3
PA 6000	Vocation of Public Service	3

Public Administration Electives

Elective Credits 6

Select 2 classes from the the list (6 cr)

Course	Title	Credits
PA 2000	Public Policy	3
PA 2100	City and Suburb	3
PA 3000	Overview of Non-Profit Sector	3
PA 4100	Public Budgeting	3
PA 4200	Organizational Development	3
PA 4500	Research Methods in Public Svc	3
PA 5000	Special Topics	3
PA 5100	Independent Study	3
PA 6000	Vocation of Public Service	3
PA 6100	PSA Internship	3
VIA 3020	Creating Social Impact	3

Additional Public Administration Electives

Elective Credits 6

Select 2 classes from the the list (6 cr), or any course with the Service Learning attribute.

Course	Title	Credits
COM 2440	Theories of Organizational Com	3
COM 3203	Communication Law & Policy	3
CRM 3001	Justice and Society	3
ECO 3112	Public Sector Economics	3
ECO 3127	Development Economics	3
ECO 3140	Urban Economics	3
EDU 3253	Educational Policy Analysis	3
GEV 3001	Intro to Sustainability Study	3
GEV 3308	Environmental Health	3
GEV 3570	Land Use Planning & Mgmt	3
GEV 4310	Environmental Issues Seminar	3
GEV 4330	Spec Topics in Environm Policy	3
GEV 4340	Spec Topics in Environm Issues	3
GEV 4350	Spec Topics in Environm Sci	3
HUM 2002	Human Person	3
HUM 2004	PSC:Society	3
HUM 2900	Topics	3
MGT 2155	Organizational Behavior	3
MGT 2360	Global Leadership	3
NS 4100	Leadership and Management	3
NS 4200	Leadership and Ethics	3
NUR 3122	Imper for Global & Pub Health	3
NUR 4114	Nursing and Health Policy	2
PA 2000	Public Policy	3
PA 2100	City and Suburb	3
PA 3000	Overview of Non-Profit Sector	3
PA 4100	Public Budgeting	3
PA 4200	Organizational Development	3
PA 5000	Special Topics	3
PA 5100	Independent Study	3
PA 6000	Vocation of Public Service	3
PA 6100	PSA Internship	3
PJ 2500	Education & Social Justice	3
PJ 2700	Peacemakers & Peacemaking	3
PJ 2800	Race, Class, & Gender	3
PJ 5100	Discrimination, Justice & Law	3
PSC 2110	U.S. State & Local Government	3
PSC 2125	U.S. Presidency	3
PSC 2180	U.S. National Security Policy	3
PSC 2210	Globalization	3
PSC 2230	International Organization	3
PSC 2240	Internat'l Political Economy	3

PSC 3140	Race, Ethnicity & Pol. in U.S.	3
PSC 3210	American Foreign Policy	3
PSC 3230	Development and Aid	3
PSC 3250	Genocide and Mass Killing	3
THL 5000	THM Religion	3
VIA 3020	Creating Social Impact	3

Russian Studies

Russian Area Studies Concentration (RASCON)

Director: Mark Schrad, Ph.D.

Office Location: 256 Saint Augustine Center
[\[Website\]](#)

About

The Concentration in Russian Area Studies promotes the study of the Russian language, and the cultures, societies, politics, and histories of the former Soviet space, which include but are not limited to Russia. With a rigorous and intellectually challenging program, students in the Russian Area Studies Concentration will become proficient in the language by taking at least two semesters of Russian language at the intermediate level and will gain well-rounded knowledge of the culture by taking four electives chosen from designated courses in History, Literature, Political Science, Economics, Theology and Religious Studies, and Art and Art History.

Program [Russian Studies](#)

Degree Type Concentration

CONCENTRATION: Russian Area Studies Concentration (18 credits)

The Russian Area Studies Concentration is open to all students enrolled in the University. The purpose of the concentration is to provide students with a multi-disciplinary comprehension of Russia through the study of this complex country's language, culture, literature, history, politics, religions and art.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Other appropriate special topics courses may count towards electives as approved by the director.

Course	Title	Credits
RUS 1123	Intermediate Russian I	3
RUS 1124	Intermediate Russian II	3
	Russian Studies Electives	12

Russian Studies Electives

Elective Credits 12

Russian Area Studies Electives – Select 4 Classes in HIS 3241, 3242, PSC 3320, RUS 1131, 1132, 3412, 4110, 4120, 4130, SAR 4007, THL 5200, Or any three-credit course with the RAS attribute (12 cr)

Sociology & Criminology

Sociology Major

Chair: Allison Ann Payne, Ph.D.

Program Director: Rick Eckstein, Ph.D.

Office Location: 204 Saint Augustine Center

Telephone: 610-519-4742

[Website](#)

About

Sociology is the systematic study of social life. Sociologists believe that people's actions are strongly influenced by the conditions and situations in which they live, work, and play.

Everybody makes decisions, but we recognize and study how social structures and institutions affect and constrain those decisions. Our goal as researchers is to expose and analyze the impacts of those circumstances on human decisions, societies, and opportunities. Methodologically, we incorporate multiple perspectives and analytical approaches to help create a more holistic understanding of our society. Our mission as teachers is to empower students to think critically and rigorously about individuals and societies. Through our diverse offerings on local, regional, national and global social processes, we strive to create more complete human beings with a keen sense of humanity, social justice, and appropriate social policy.

Program Sociology & Criminology

Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (33 credits)

The Major consists of 33 credits. One of the Sociology electives for the Major can be satisfied by an internship for credit with approval from the department Chair, provided that the student has at least 15 credits toward the Major.

Program Notes:

- A student taking an internship in a field setting in the second semester of their junior year or during their senior year should consult with the department Chair.
- Students must have at least three full semesters remaining at Villanova University to declare a Sociology major.

Course	Title	Credits
SOC 1000	Intro to Sociology	3
SOC 5050	Soc Theory & Public Policy	3
SOC 5300	Data Analysis-Social Scientist	3
SOC 5400	Research Methods SocialScience	3
SOC 6500	Seminar	3
	SOC Electives for B.A.	15
	CRM Elective for SOC B.A.	3

Core Curriculum Requirements (38 credits)

Sociology Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Social Sciences (6 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (51 credits)

Students with a Sociology primary major have fifty-one (51) required free elective credits.

Degree Credit Summary

- **Major Credits:** 33 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 51 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Sociology as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

SOC Electives for B.A.

Elective Credits 15

5 Classes in courses of 3 credits or more in SOC 1000:9999, or any subject and course number with SOC attribute (15 cr)

CRM Elective for SOC B.A.

Elective Credits 3

1 Class in a course of 3 credits or more in CRM 1000:9999 (3 cr)

Sociology Minor

Chair: Allison Ann Payne, Ph.D.
Program Director: Rick Eckstein, Ph.D.
Office Location: 204 Saint Augustine Center
Telephone: 610-519-4742
[Website](#)

About

Sociology is the systematic study of social life. Sociologists believe that people's actions are strongly influenced by the conditions and situations in which they live, work, and play. Everybody makes decisions, but we recognize and study how social structures and institutions affect and constrain those decisions. Our goal as researchers is to expose and analyze the impacts of those circumstances on human decisions, societies, and opportunities. Methodologically, we incorporate multiple perspectives and analytical approaches to help create a more holistic understanding of our society. Our mission as teachers is to empower students to think critically and rigorously about individuals and societies. Through our diverse offerings on local, regional, national and global social processes, we

strive to create more complete human beings with a keen sense of humanity, social justice, and appropriate social policy.

Program [Sociology & Criminology](#)
Degree Type Minor

MINOR: Sociology (15 credits)

A Minor is open to all students and requires 5 courses and 15 credits. Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the Minor. Minors cannot receive Sociology credit for an internship.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Only one course may be transferred from another university.
- No course for the minor may be taken S/U, and no more than one course transferred from another university will be accepted.
- Minors cannot receive Sociology credit for an internship.

Course	Title	Credits
SOC 1000	Intro to Sociology	3
	SOC Minor Elective	12

SOC Minor Elective

Elective Credits 12

4 Classes in courses of 3 credits or more in HON 4900:4951, SOC 2000:6500 (excluding SOC 1500, 2993, 2996, 5300:5400) (12 cr).

Spanish Studies

Spanish Studies Major

Chairperson: Veronika Ryjik, Ph.D.
Office Location: 303D Saint Augustine Center
Telephone: (610) 519-7794
[Website](#)

About

With nearly 600 million speakers across five continents, Spanish is more than a tool for personal and cultural enrichment—it is an essential asset in today’s global economy. As one of the most widely spoken languages in the world, it unlocks countless professional and personal opportunities across different fields and regions. The Spanish major will help you develop linguistic proficiency and gain a deeper understanding of the diverse cultures of the Spanish-speaking world. Our curriculum fosters intellectual curiosity and critical thinking by exploring historical movements, sociopolitical systems, linguistic diversity, and cultural production across Europe, Latin America, and the Caribbean. We emphasize real-world application through study abroad experiences in Spain and Latin America, where students engage directly with the cultures they are learning about. We also offer service-learning opportunities that bridge classroom knowledge with community engagement, allowing students to participate in local initiatives that support Spanish-speaking communities. These experiences develop cross-cultural competence and social responsibility while applying language skills in practical settings.

Program [Spanish Studies](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Courses (30 credits)

The Spanish major provides students with a rigorous academic foundation that combines language proficiency with cultural literacy. Students complete 30 credits of coursework designed to enhance their oral and written communication in Spanish, as well as their ability to interpret diverse cultural and linguistic phenomena. Our small-size classes provide students with personalized attention and guidance from their professors, creating an engaging interactive environment that enhances the learning experience and language proficiency. By offering interdisciplinary courses and opportunities to combine the Spanish major with fields such as business, healthcare, and the social sciences, we prepare our students to excel in a variety of careers that value multilingual and multicultural expertise.

Program Notes:

- Students are required to take ten Spanish courses (30 credits) above the Intermediate level (1122), including the mandatory courses listed below.
 - SPA 1130 or 1131, and 1132 are prerequisites for many of the courses required for the major (for those students who do not place above them) and, if taken, will count towards the Major.
- One approved course taught in English with SPA attribute may be accepted for the major.
- Students may obtain up to 6 credits through the Villanova summer program in Cádiz (Spain) or the Spanish Language and Indigenous Sustainability program in Mérida (Yucatán, Mexico).

Course	Title	Credits
	SPA 2138 or SPA 2140	3
	SPA 2220 or SPA 2221	3
SPA 3970	Research Seminar	3
	Spanish Electives for B.A.	21

Core Curriculum Requirements (44 credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Upper-Level Theology (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (48 credits)

Students with a Spanish Studies primary major have forty-eight (48) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 44 credits
- **Free Electives Credits:** 48 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR

Students who declare Spanish Studies as a **secondary major** must complete the Required Major Courses to achieve this major. Students are able to count any eligible course taken in their primary major, the core curriculum, minors, concentrations, or free electives toward these requirements.

SPA 2138 or SPA 2140

Elective Credits 3		
Course	Title	Credits
SPA 2138	Advanced Spanish	3
SPA 2140	Writing & Stylistics in Span	3

SPA 2220 or SPA 2221

Elective Credits 3		
Course	Title	Credits
SPA 2220	Literature & Culture of Spain	3
SPA 2221	Lit. & Cult. of Latin America	3

Spanish Electives for B.A.

Elective Credits 21

Select 7 Classes of 3 or more credits from SPA 1123:9999 (21 cr)

- (Maximum of one class with subject RLL and Attribute SPA).

Spanish Studies Minor

Chairperson: Veronika Ryjik, Ph.D.
Office Location: 303D Saint Augustine Center
Telephone: (610) 519-7794
[Website](#)

About

Spanish is the second most spoken language in the world and the second most prevalent language in the United States. It is also the most in-demand second language sought after by employers across all sectors. As a Spanish minor at Villanova, you'll gain a competitive edge in today's global marketplace while unlocking a wealth of personal and professional

opportunities. Our program goes beyond language acquisition, fostering creativity, critical thinking, problem-solving, and decision-making skills that will serve you well in any field. With approximately 800 students enrolled in Spanish undergraduate courses every semester, you will be part of a dynamic and diverse community of learners. Our program offers rigorous coursework and promotes immersive experiences. Students are encouraged to spend summers or semesters abroad in Spain and Latin America to achieve greater proficiency and gain firsthand cultural insights.

Program [Spanish Studies](#)
Degree Type Minor

MINOR: Spanish Studies (15 credits)

Program Notes:

- Students are required to take five Spanish courses (15 credits) above the Intermediate level (1122), including one Upper-Level Spanish course from this list: SPA 2138, 2140, 2220, or 2221.
 - SPA 1130 or 1131, and 1132 are prerequisites for many of the courses required for the minor (for those students who do not place above them) and, if taken, will count towards the Minor.
- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Of the five required courses, one must be at the 3000 level and taken at Villanova, or at a Villanova study abroad program: the Villanova summer program in Cádiz (Spain) or the Spanish Language and Indigenous Sustainability program in Mérida (Yucatán, Mexico).
- Courses taught in English do not count for the minor.

Theatre

Music Minor

Chairperson: Valerie M. Joyce, Ph.D.
 Area Coordinator: Peter Hilliard, MFA
 Office Location: 309 Mullen Center for the Performing Arts
 Telephone: 610-519-4760
[\[Website\]](#)

Villanova has a vibrant musical culture, and students interested in Music can declare a minor in Music or take courses in Music taught by faculty from across the University. Develop your skills and learn how to get the most out of your experience as a performer and listener with a broad range of courses as a Music Minor.

Program [Theatre](#)
Degree Type Minor

Minor: Music (16 credits)

Music Minors must complete five Music courses.

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
SAR 2100	Music Theory I	4
	SAR 2110 or SAR 2111	3
	Music Minor Elective	9

SAR 2110 or SAR 2111

Elective Credits 3		Credits
Course	Title	
SAR 2110	Western Music to 1750	3
SAR 2111	Western Music:1750-Present	3

Music Minor Elective

Elective Credits 9

Select three courses from the list below.

Course	Title	Credits
SAR 2114	Songwriting: Words & Music	3
SAR 2119	Jazz:America's Music	3
THE 2034	Musical Theatre	3
PHI 4140	Phil of Contemporary Music	3
COM 3354	Media Criticism	3

Studio Art Minor

Chairperson: Valerie M. Joyce, Ph.D.
Office Location: 309 Mullen Center for the
Performing Arts
Telephone: 610-519-4760
[\[Website\]](#)

About

Students interested in Art can declare a minor in Studio Art or take courses taught by our inspiring faculty to develop a deeper appreciation and build skills in the arts.

Program [Theatre](#)
Degree Type Minor

MINOR: Studio Art (15 credits)

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Student do not have to take a course from the Studio Art Elective section; they may take all five required courses from the Studio Art Core section.

Course	Title	Credits
	Studio Art Core	12
	Studio Art Elective	3

Studio Art Core

Elective Credits 12

Students must choose at least four courses from the below list. They may fulfill the requirement using all courses from this list, if they wish.

Course	Title	Credits
SAR 2010	Intro to Calligraphy	3
SAR 2020	Basic Watercolor Techniques	3
SAR 2021	Basic Drawing Techniques	3
SAR 2022	Basic Oil Painting	3
SAR 3031	Special Topics in Studio Art	3
SAR 4007	Painting of Icons	3
SAR 5004	Basic Printmaking	3

Studio Art Elective

Elective Credits 3

One elective from the list in Studio Art Core or from the following:

Course	Title	Credits
AAH 1101	His West Art:Ancient-Med	3
AAH 1102	His West Art:Renaiss - Cont	3
AAH 2000	Ancient Art	3
AAH 2001	Medieval Art	3
AAH 2002	Early Renaissance Art in Italy	3
AAH 2003	Age of Rembrandt & Bernini	3
AAH 2004	Modern Art	3
AAH 2009	Contemporary Art	3
AAH 2012	High Renaissance Art in Italy	3
AAH 3001	Women in Art	3
AAH 3002	Art of Philadelphia	3
AAH 3003	Romantic to Post-Impress	3
AAH 3005	Gender Sexuality Visl Culture	3
AAH 3007	The Art of Ireland	3
AAH 4010	Theories & Methods of Art Hist	3
FFS 3412	Special Topics	3
CHI 3413	Chinese Calligraphy	3
RLL 3413	Topics on Italy and Beauty	3
SPA 3025	Faces of Modernity	3
JPN 2143	Japanese Animation	3

Theatre Minor

Chairperson: Valerie M. Joyce, Ph.D.
Area Coordinator: Hansel Tan, MFA
Office Location: 309 Mullen Center for the
Performing Arts
Telephone: 610-519-4760
[\[Website\]](#)

About

The Villanova University Theatre Department aims to inform and inspire theatre artists,

administrators, and scholars who will impact the future of this dynamic art form. Our culture of creativity engages in rigorous study and the practical application of theatrical theories and techniques. We believe art has the power to transform hearts and minds by challenging both individuals and communities.

Program Theatre
Degree Type Minor

MINOR: Theatre (15 credits)

Undergraduate students may fulfill a Theatre minor by completing five theatre courses (two required/three elective) and a theatre practicum.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- To fulfill the theatre practicum, contact program coordinator [Kevin Esmond](#).
- THE 3030 is a topics course, and students may only count TOPICS course 'Scene Study' towards the 'THE Minor Focus' requirement, but may count any other THE 3030 Topics course towards the 'THE Electives' requirement.

Course	Title	Credits
THE 2029	Fund Princ of Acting	3
	THE Minor Focus	3
	THE Electives	9
	Theatre Practicum	0-1

THE Minor Focus

Elective Credits 3

Select one of the courses below.

- THE 3030 may fulfill this requirement. For the THE 3030 topics course, **only THE 3030: Scene Study may count toward fulfilling this requirement.**
- Other THE 3030 courses may count toward the Minor as electives.

Course	Title	Credits
THE 2019	The Theatrical Expernce	3
THE 2051	Creativity	3

THE Electives

Elective Credits 9

Choose 3 courses from the following list (9 cr)

- SAR 3031 is a topics course. **Only the Fashion in Costume Design topic may fulfill the minor requirement.**

Course	Title	Credits
THE 2019	The Theatrical Expernce	3
THE 2030	Advan Princ of Acting	3
THE 2032	Elements of Dance	3
THE 2033	Advanced Elements of Dance	3
THE 2034	Musical Theatre	3
THE 2051	Creativity	3
THE 3007	Playwriting	3
THE 3030	Spec Topics in Theatre	3
THE 4011	Directing the Play	3
COM 2240	Theories of Perform Studies	3
COM 3243	Performance Art	3
ENG 3250	Shakespeare	3
GRK 5850	Greek Tragedy	3
HON 5400	Performing Arts: Dance	1
SPA 3412	Special Topics	3
SPA 3064	Spanish Theatre of 20 & 21 c.	3

Theatre Practicum

Elective Credits 0-1

Theatre minors are required to complete a Practicum, and have the choice between THE 2040 (0cr) or THE 2041 (1cr).

- Practicum may be fulfilled by:
 - Working on a mainstage show (acting, stage management, run crew)
 - Working in a Villanova Theatre shop for minimum of 35 hours

Course	Title	Credits
THE 2040	Theatre Practicum	0
THE 2041	Theatre Practicum	1

Theology and Religious Studies

Theology and Religious Studies Major

Chairperson: Kevin Hughes, Ph.D.
Program Director: Brett Grainger, Ph.D.
Office Location: 203 Saint Augustine Center
Telephone: 610-519-4730
[Website](#)

About

Theological and religious studies as conceived, studied, and advanced at Villanova are interdisciplinary and integrative. Students pursue their objectives from diverse theological and religious perspectives, place them in dialogue with each other, and integrate religious and theological knowledge with experience and other forms of knowing.

Our programs explore the intersections of Catholic theology, religion, and cultures(s) and prepare students for graduate studies and for careers in humanitarian, philanthropic or other non-profit, charitable organizations; and in religious organizations as campus, youth or parish minister, educator, catechist, retreat worker, administrator, counselor, spiritual director or in one of the many other positions such organizations offer.

Program [Theology and Religious Studies](#)
Degree Type Bachelor of Arts

PRIMARY MAJOR (122 credits)

Required Major Credits (30 credits)

The primary major emphasizes a broad understanding of Christian and non-Christian theological and religious traditions. It is a stand-alone program, and students may take it in conjunction with another major (i.e., the traditional “double” major).

Program Notes:

- Total number of elective courses from outside the TRS Department (including courses taken overseas) must not exceed nine credit hours.
- Theology majors are required to select a concentration that will give shape and focus to the major.

Course	Title	Credits
THL 1000	Faith, Reason, and Culture	3
	Theology Major Seminars	6
	Theology Tracks for Primary Major	12
	THL Elective	3

Core Curriculum Requirements (38 credits)

Theology and Religious Studies Primary Majors meet the following core requirements in the major and therefore are omitted from the summary below:

- Core Theology - THL 1000 (3 cr)
- Upper-Level Theology (3 cr)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
PHI 1000	Knowledge, Reality, Self	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Mathematics or Statistics (1 course)	3
	Natural Science (2 courses with laboratory)	8
	Literature and Writing Seminar (1 course)	3
	History (1 course)	3
	Social Sciences (2 courses)	6
	Fine Arts (1 course)	3
	Language Requirement	
	Diversity Requirement (2 courses)	

Free Elective Requirement (54 credits)

Students with a Theology and Religious Studies primary major have fifty-four (54) required free elective credits.

Degree Credit Summary

- **Major Credits:** 30 credits
- **Core Credits:** 38 credits
- **Free Electives Credits:** 54 credits
- **Total Required Credits:** 122 Credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

SECONDARY MAJOR (24 credits)

The secondary major highlights the interdisciplinary and multidisciplinary nature of theological inquiry and of the study of religion. It must be taken in conjunction with another major and completed concurrently with it.

Program Notes:

- Total number of elective courses from outside the TRS Department (including courses taken overseas) must not exceed six credit hours.
- Theology majors are required to select a concentration that will give shape and focus to the major.
- Students must also take 1 Portfolio Course: THL 6600 (0 cr).

Course	Title	Credits
THL 1000	Faith, Reason, and Culture	3
	Theology Major Seminar	3
	Theology Tracks for Secondary Major	9
	THL Elective	3

Theology Major Seminars

Elective Credits 6

Take THL 5001 and THL 5002 (6cr)

Theology Tracks for Primary Major

Elective Credits 12

Select 1 focus track of four courses from the options below (12 cr)

Catholic Studies

Catholic Studies - take four courses with the number THL 5003 (12 cr).

This track provides an academic context for exploring Catholic and Augustinian values at the heart of the university, as well as a platform for exploring the enormous intellectual, social, and cultural diversity within global Catholicism.

Theology and Culture

Theology and Culture - take four courses with the number THL 5004 (12 cr).

This track allows Theology and Religious Studies students to explore faith, reason, and culture in their many textured relationships. The paradigm of theology engaging culture encourages Theology and Religious Studies students to breach the walls and barriers that often separate academic pursuits from everyday life and also to open new windows for understanding the way in which religious commitments shape and are influenced by larger cultural forces.

Global Religious Experience

Global Religious Experience - take four courses with the number THL 5005 (12 cr).

This track provides a broad-based religious literacy to Theology and Religious Studies students, which is one of the hallmarks of an Augustinian education, in addition to placing them in a prime position to understand and to appreciate various religious traditions as they exist and interact in our globalized context.

Self-Designed Studies

Self-Designed Studies - take any four THL courses with the CTHL attribute (12 cr).

This track allows a Theology and Religious Studies student whose academic interests lie outside the other three tracks an opportunity to sculpt an individualized course of studies in consultation with the Director of the Undergraduate Program.

THL Elective

Elective Credits 3

Select THL 6001 or any one course with the CTHL attribute (3 cr).

Theology Major Seminar

Elective Credits 3

Take THL 5001 (3 cr)

Theology Tracks for Secondary Major

Elective Credits 9

Select 1 focus track of three courses from the options below (9 cr)

Catholic Studies

Catholic Studies - take three courses with the number THL 5003 (9 cr).

This track provides an academic context for exploring Catholic and Augustinian values at the heart of the university, as well as a platform for exploring the enormous intellectual, social, and cultural diversity within global Catholicism.

Theology and Culture

Theology and Culture - take three courses with the number THL 5004 (9 cr).

This track allows Theology and Religious Studies students to explore faith, reason, and culture in their many textured relationships. The paradigm of theology engaging culture encourages Theology and Religious Studies students to breach the walls and barriers that often separate academic pursuits from everyday life and also to open new windows for understanding the way in which religious commitments shape and are influenced by larger cultural forces.

Global Religious Experience

Global Religious Experience - take three courses with the number THL 5005 (9 cr).

This track provides a broad-based religious literacy to Theology and Religious Studies students, which is one of the hallmarks of an Augustinian education, in addition to placing them in a prime position to understand and to appreciate various religious traditions as they exist and interact in our globalized context.

Self-Designed Studies

Self-Designed Studies - take any three THL courses with the CTHL attribute (9 cr).

This track allows a Theology and Religious Studies student whose academic interests lie outside the other three tracks an opportunity to sculpt an individualized course of studies in consultation with the Director of the Undergraduate Program.

Theology and Religious Studies Minor

Chairperson: Kevin Hughes, Ph.D.
Program Director: Brett Grainger, Ph.D.
Office Location: 203 Saint Augustine Center
Telephone: 610-519-4730
[Website](#)

About

Theological and religious studies as conceived, studied, and advanced at Villanova are interdisciplinary and integrative. Students pursue their objectives from diverse theological and religious perspectives, place them in dialogue with each other, and integrate religious and theological knowledge with experience and other forms of knowing.

Our programs explore the intersections of Catholic theology, religion, and cultures(s) and prepare students for graduate studies and for careers in humanitarian, philanthropic or other non-profit, charitable organizations; and in religious organizations as campus, youth or parish minister, educator, catechist, retreat worker, administrator, counselor, spiritual director or in one of the many other positions such organizations offer.

Program [Theology and Religious Studies](#)
Degree Type Minor

MINOR: Theology and Religious Studies (15 credits)

The minor is open to all students. Students can take the minor in conjunction with any other program in any Villanova College. Once the required coursework is completed, Villanova recognizes the minor at the time of graduation on the official transcript.

Program Notes:

- For the THL Elective: 3 credits may be taken from among the approved extra-departmental courses listed below the Required Minor Courses list. The TRS Director of Undergraduate Programs may approve additional courses (for example, a course taken overseas or particular themes or topic courses not listed explicitly in the University Catalog). Because such courses do not carry the Core Theology (CTHL) attribute, they will count toward the Major degree only with prior approval from the Director.
- Total number of elective courses from outside the TRS Department (including courses taken overseas) must not exceed three credit hours.
- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).

Course	Title	Credits
THL 1000	Faith, Reason, and Culture	3
THL Elective for Minor		12

THL Elective for Minor

Elective Credits 12

Take any four THL courses with the CTHL attribute

- one of these elective courses may come from among THL 6001, courses with the CTHL attribute, or GIS 4275, HIS 1060, HIS 2280, HIS 3018, HIS 4031, HIS 4076, HUM 4000, PHI 2450, PHI 2900, PHI 2910, PHI 3100, PHI 3120, PHI 3410, PJ 2600, PJ 2900, PJ 3400, PJ 4600, PJ 5400, PSC 3440, SOC 2600, THE 3010.

Writing and Rhetoric

Writing and Rhetoric Minor

Program Director: Adrienne Perry, Ph.D.
Office Location: 453 Saint Augustine Center
Telephone: 610-519-4657
[\[Website\]](#)

About

As an interdisciplinary program with courses from the Departments of English and Communication, the Program in Writing and Rhetoric offers students opportunities to gain significant knowledge of the rhetorical framework constituting professional, aesthetic and everyday writing. The program will allow students who want to pursue study in writing and communication to do so in a focused and comprehensive way with examination of the theoretical, historical, and philosophical aspects of these disciplines.

Program [Writing and Rhetoric](#)
Degree Type Minor

MINOR: Writing & Rhetoric (18 credits)

Students must complete 18 credit hours, comprising 6 advanced courses numbered 2000 and above.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Also required: A Grammar, Style and Punctuation Exam by the end of their first semester of work towards the minor, students will have studied for and passed a self-administered WebCT exam covering principles of Standard Edited English, a style sheet as that of the Associated Press, and other rules of grammar, punctuation, and mechanics.
- Some study abroad courses may count towards completion of the minor. Consult with the program director for approval.

Course	Title	Credits
	Writing Practice Elective for the Minor	9
	Composition/Rhetorical/Critical Theory Elective for the Minor	6
	Upper-Level English Lit	3

Writing Practice Elective for the Minor

Elective Credits 9

Choose 3 courses primarily in writing practice from the list below.

- ENG 2045 Special Topics, when these courses are focused on critical theory.

Course	Title	Credits
ENG 1842	Perspectives in Literature	3
ENG 2000	Adv Expository Writing	3
ENG 2003	Intro to Creative Writing	3
ENG 2004	Writing Creative Nonfiction	3
ENG 2005	Writing of Short Story	3
ENG 2006	The Writing of Poetry	3
ENG 2009	Writing the Traditional Novel	3
ENG 2012	Advanced Creative Writing	3
ENG 2013	Writing of Memoir	3
ENG 2017	Writing Detective Fiction	3
ENG 2018	Nature Writing Workshop	3
ENG 2019	Writing for Social Change	3
ENG 2020	Digital Journalism	3
ENG 2043	Worldwide Popular Culture	3
ENG 2070	Legal Writing and Analysis	3
COM 3247	Storytelling	3
COM 3303	Screenwriting	3
COM 3305	Radio Broadcasting	3
COM 3341	Gender and Film	3
COM 3351	Media & Society	3
COM 3352	Media & Technology	3
COM 3353	Media & Politics	3
COM 3354	Media Criticism	3
COM 3360	Introduction to Journalism	3
COM 3363	Broadcast Journalism	3
COM 3365	Sports Journalism	3
COM 3366	Multimedia Journalism	3
COM 3367	Journalism Topics	3
COM 3390	Spec Top in Media Studies	3
COM 3403	Intercultural Communication	3
COM 3406	Gender & Communication	3
COM 3462	Public Relations Writing	3
COM 4001	Qualitative Research in COM	3

Composition/Rhetorical/Critical Theory Elective for the Minor

Elective Credits 6

Choose two courses in composition theory, rhetorical theory, critical theory or history of language/cultural texts:

- ENG 2045 Special Topics, when these courses are focused on critical theory.

Course	Title	Credits
ENG 2046	Teach ENG to Non-Nat Speaker	3
ENG 2250	Ways of Reading:Lit Analysis	3
COM 2200	Theories of Rhetoric	3
COM 2240	Theories of Perform Studies	3
COM 2280	Theories of Persuasion	3
COM 2300	Theories of Mass Communication	3
COM 2340	Theories of Visual Com & Cultu	3
COM 2400	Theories of Interpersonal Com	3
COM 2440	Theories of Organizational Com	3
COM 3201	Rhetoric & Social Justice	3
COM 3203	Communication Law & Policy	3
COM 3204	Rhetoric and Democracy	3
COM 3207	African American Rhetoric	3
COM 3208	Rhetoric and Myth	3
COM 3209	Rhetorics of Race	3
COM 3290	Special Topics in Rhetoric	3
COM 3304	Documentary Theory & Practice	3
CST 2100	Intro. to Cultural Studies	3
GIS 2000	Intro to Global Interd Studies	3
PHI 2010	Logic & Critical Thinking	3
PHI 2180	Computer Ethics	3
PHI 2760	Philosophy & Literature	3
PHI 3020	History of Ancient Philosophy	3
PHI 4140	Phil of Contemporary Music	3
PHI 4150	Philosophy & Film	3

Upper-Level English Lit

Elective Credits 3

Choose an upper level English literature course 2000 or above with the WRRH attribute.

Writing and Rhetoric Concentration

Program Director: Adrienne Perry, Ph.D.
Office Location: 453 Saint Augustine Center
Telephone: 610-519-4657
[\[Website\]](#)

About

As an interdisciplinary program with courses primarily from the Departments of English and Communication, the Program in Writing and Rhetoric offers students opportunities to gain significant knowledge of the rhetorical framework constituting professional, aesthetic and everyday writing. The program will allow students who want to pursue study in writing and communication to do so in a focused and comprehensive way with examination of the theoretical, historical, and philosophical aspects of these disciplines.

Program Writing and Rhetoric
Degree Type Concentration

CONCENTRATION: Writing & Rhetoric (24 credits)

In keeping with the English Department's focus on literary texts, the notion of rhetoric informing the Concentration includes textual analysis as well as the more traditional uses of the term, thus bringing the wisdom and imagination of literary discourse into the Concentration. Such a focus on literary texts also underscores the well-known correlation between reading well and writing well. Furthering the Communication Department's focus on orality and persuasion, the Concentration will allow students to develop rhetorically complex understandings of audiences and master of the skills necessary to adapt the written and oral messages for identified audiences.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Also required: A Grammar, Style and Punctuation Exam by the end of their first semester of work towards the minor, students will have studied for and passed a self-administered WebCT exam covering principles of Standard Edited English, a style sheet as that of the Associated Press, and other rules of grammar, punctuation, and mechanics.
- Non-Credit bearing internships may fulfill the One Practicum Course requirement if they involve a substantial amount of writing. The internship must be approved by the Director of the Writing and Rhetoric Program.
- Some study abroad courses may count towards completion of the concentration. Consult with the program director for approval.

Required Concentration Courses:

Course	Title	Credits
	Writing Practice Elective for the Concentration	9
	Composition/Rhetorical/Critical Theory Elective for the Concentration	6
	Writing Practicum Elective	3
	Upper-Level English Lit	3

Writing Practice Elective for the Concentration**Elective Credits 9**

Choose 3 courses primarily in writing practice from the list below.

- ENG 2045 Special Topics, when these courses are focused on critical theory.

Course	Title	Credits
ENG 1842	Perspectives in Literature	3
ENG 2000	Adv Expository Writing	3
ENG 2003	Intro to Creative Writing	3
ENG 2004	Writing Creative Nonfiction	3
ENG 2005	Writing of Short Story	3
ENG 2006	The Writing of Poetry	3
ENG 2009	Writing the Traditional Novel	3
ENG 2012	Advanced Creative Writing	3
ENG 2013	Writing of Memoir	3
ENG 2017	Writing Detective Fiction	3
ENG 2018	Nature Writing Workshop	3
ENG 2019	Writing for Social Change	3
ENG 2020	Digital Journalism	3
ENG 2043	Worldwide Popular Culture	3
ENG 2070	Legal Writing and Analysis	3
COM 3247	Storytelling	3
COM 3303	Screenwriting	3
COM 3305	Radio Broadcasting	3
COM 3341	Gender and Film	3
COM 3351	Media & Society	3
COM 3352	Media & Technology	3
COM 3353	Media & Politics	3
COM 3354	Media Criticism	3
COM 3360	Introduction to Journalism	3
COM 3363	Broadcast Journalism	3
COM 3365	Sports Journalism	3
COM 3366	Multimedia Journalism	3
COM 3367	Journalism Topics	3
COM 3390	Spec Top in Media Studies	3
COM 3403	Intercultural Communication	3
COM 3406	Gender & Communication	3
COM 3462	Public Relations Writing	3
COM 4001	Qualitative Research in COM	3

Composition/Rhetorical/Critical Theory Elective for the Concentration**Elective Credits 6**

Choose two courses in composition theory, rhetorical theory, critical theory or history of language/cultural texts:

- ENG 2045 Special Topics, when these courses are focused on critical theory.

Course	Title	Credits
ENG 2046	Teach ENG to Non-Nat Speaker	3
ENG 2250	Ways of Reading:Lit Analysis	3
COM 2200	Theories of Rhetoric	3
COM 2240	Theories of Perform Studies	3
COM 2280	Theories of Persuasion	3
COM 2300	Theories of Mass Communication	3
COM 2340	Theories of Visual Com & Cultu	3
COM 2400	Theories of Interpersonal Com	3
COM 2440	Theories of Organizational Com	3
COM 3201	Rhetoric & Social Justice	3
COM 3203	Communication Law & Policy	3
COM 3204	Rhetoric and Democracy	3
COM 3207	African American Rhetoric	3
COM 3208	Rhetoric and Myth	3
COM 3209	Rhetorics of Race	3
COM 3290	Special Topics in Rhetoric	3
COM 3304	Documentary Theory & Practice	3
CST 2100	Intro. to Cultural Studies	3
GIS 2000	Intro to Global Interd Studies	3
PHI 2010	Logic & Critical Thinking	3
PHI 2180	Computer Ethics	3
PHI 2760	Philosophy & Literature	3
PHI 3020	History of Ancient Philosophy	3
PHI 4140	Phil of Contemporary Music	3
PHI 4150	Philosophy & Film	3

Writing Practicum Elective**Elective Credits 3**

- PJ 4650: Service Learning Practicum, when the practicum involves a good deal of writing.

Course	Title	Credits
ENG 2030	Tutoring Writers	3
ENG 2800	Teaching Practicum	3
ENG 2993	Internship	3
ENG 2996	Internship	6
COM 2993	Communication Internship	3
COM 2996	Communication Internship	6

Upper-Level English Lit

Elective Credits 3

Choose an upper level English literature course 2000 or above with the WRRH attribute.

Villanova School of Business

Villanova School of Business

Wen Mao, PhD, The Helen and William O'Toole Dean

Aronté Bennett, PhD, Associate Dean of Diversity, Equity and Inclusion (DEI)

Jonathan Doh, PhD, Senior Associate Dean for Research, Faculty Advancement and Global Engagement

Julie Pirsch, PhD, Senior Associate Dean of Teaching & Programs

Larry Fillian, Associate Dean, Undergraduate Business Programs

Manuel Nuñez, Associate Dean, Graduate Programs

Office: Bartley Hall 1045, Tel. 610-519-5424

Website: <https://www1.villanova.edu/university/business.html>

Always be dissatisfied with what you are, if you want to arrive at what you are not yet. Always add some more. Always keep on walking.

ALWAYS FORGE AHEAD!

St. Augustine, SERMON 169, 18

History

The original College of Commerce and Finance was founded in 1922 by the Rev. Joseph C. Bartley, OSA, who served as dean until 1962. Since that time, the school underwent many changes to meet the needs of the ever-changing business community, but it has continued to attract outstanding undergraduate and graduate students from across the nation and the world. In 2006, the school was renamed the Villanova School of Business (VSB).

Today offers the Bachelor of Business Administration degree with majors in Accounting, Economics, Finance, Management, Management Information Systems, Marketing, and Real Estate. Co-majors in Business Analytics and International Business are also available and are taken in conjunction with another business major. The Bachelor of Business Administration, Honors degree is also available for qualified students.

Graduate programs include the Executive MBA, Professional MBA, Master of Accounting with Data Analytics, Master of Business Taxation with Data Analytics, Master of Science in Business Analytics, Master of Science in Church Management, and Master of Science in Finance.

The VSB undergraduate and graduate business programs are fully accredited by the Association to Advance Collegiate Schools of Business (AACSB). In addition, the accounting program is separately accredited by AACSB making it among a select number of accounting programs so designated.

VSB faculty include more than 120 full-time professors, with about 86% holding the terminal degree in their area of expertise. The faculty is widely recognized for its excellence in teaching, research and professional service, and adjunct professors are experts drawn from industry.

The School is also home to prestigious business research centers including the Daniel M. DiLella Center for Real Estate, the Elenore and Robert F. Moran Sr. Center for Global Leadership, the Center for Business Analytics, the Center for Church Management, and the Center for Marketing and Consumer Insights.

Academic Mission

The Villanova School of Business (VSB) fosters an atmosphere where students develop intellectual curiosity, experiences, and values needed for lifetime learning. We collaborate with the business and academic communities to create, share, and apply knowledge to produce strategic, innovative solutions that solve evolving business programs. Strengthened by our Catholic and Augustinian tradition, VSB is a community of mutual respect, inclusion, professional development, and continuous improvement.

Vision

To create a rigorous academic learning environment that transforms lives, nurtures creativity, embraces an analytical approach, espouses a global perspective and develops ethical leaders who positively impact society.

Core Values

- **Veritas:** Creative problem solvers tackling emerging business challenges with expertise and integrity, paired with courage, resolve, and strength of character.
- **Unitas:** An inclusive community of collaborative leaders who think holistically and work across disciplines.
- **Caritas:** Humble servant leaders who are ethical, empathetic decision makers, focused on the greater good.

Academic Services

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TBD, Coordinator

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Student Service Organizations**Dean's Undergraduate Student Advisory Council (DUSAC)**

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University Directory

Office for Mission and Ministry

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Career Center

117 Garey Hall
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careers.info@villanova.edu
<http://careers.villanova.edu>

Computer Support - TechZONE

Falvey Library and 1st Commons
(610) 519-7777
support@villanova.edu
<https://www1.villanova.edu/villanova/unit/student-services/TechZone.html>

Patricia B. and Gary M. Holloway University Counseling Center

206 Health Services Building
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Dean of Students

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deanofstudents@villanova.edu
<https://www1.villanova.edu/university/student-life/dean-of-students.html>

Falvey Memorial Library

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<https://library.villanova.edu/>

International Student Services

Vasey Hall, Room 203
(610) 519-8017
<https://www1.villanova.edu/university/student-life/intl.html>

Learning Commons - Falvey Library, 2nd Floor

Center for Speaking and Presentations

(610) 519-5862

<https://www1.villanova.edu/university/academic-enterprise/student-support/speaking-presentation.html>

Learners' Studio (Tutoring)

(610) 519-5862

<https://www1.villanova.edu/villanova/provost/tutoringservices.html>

Learning Support Services (LSS)

(610) 519-5176

learning.support.services@villanova.edu

<https://www1.villanova.edu/villanova/provost/learningsupport.html>

Math Center

(610) 519-7457, mlrc@villanova.edu

<https://www1.villanova.edu/villanova/provost/tutoringservices.html>

The Center for Access Success and Achievement (CASA)

(610) 519-4103

<https://www1.villanova.edu/villanova/provost/casa.html>

Writing Center

(610) 519-4604

<https://www1.villanova.edu/villanova/provost/tutoringservices.html>

Office of Education Abroad

Garey Hall, Top Floor

(610) 519-6412

abroad@villanova.edu

<https://www1.villanova.edu/villanova/provost/abroad.html>

Public Safety

Garey Hall, Ground Floor

Non-emergency, (610) 519-6979

Emergency, (610) 519-4444

<https://www1.villanova.edu/university/public-safety.html>

Residence Life

Stanford Hall, Ground Floor

(610) 519-4154

residencelife@villanova.edu

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Student Health Center

Health Services Building, 3rd floor

(610) 519-4070

studenthealthcenter@villanova.edu

<https://www1.villanova.edu/university/health-services/health-center.html>

The Clay Center at VSB/The O'Donnell Center for Professional Development

Bartley Hall, Room # 1054 610-519-5532

The Clay Center at VSB, named in honor of VSB alumnus, faculty member and Dean Emeritus Alvin A. Clay, is a “one-stop-shop” resource where all academic support and informational resources are available to help undergraduate business students reach their goals. The Center is home to the Charlotte and James O'Donnell '63 Center for Professional Development. These resources help business students to explore and develop their educational and career goals, and to successfully apply their unique talents and knowledge to become a lifelong learner and socially-responsible member of the global business community.

THE CLAY CENTER MISSION

The Clay Center at VSB is dedicated to facilitating the intellectual, professional, and personal growth of all undergraduate VSB and Business Minor students by providing:

- educational planning and academic advising
- professional and personal development programs and resources
- experiential learning opportunities

The Clay Center, a community based on integrity, ethics, compassion and mutual respect, is committed to:

- championing a diverse and inclusive community to create an even greater sense of belonging for everyone
- guiding students as they identify their educational, professional, and personal goals
- empowering students to evaluate and pursue opportunities that support their goals
- creating a culture that promotes student responsibility and accountability

- partnering with the university community to meet the needs of our students
- continuously assessing the needs and interests of our students and the VSB business community, and adapting Clay Center services accordingly.

LINKS TO THE CLAY CENTER SERVICES

- [Academic Advising](#)
- [Davis Fund for Student Experiences](#)
- [The O'Donnell Center for Professional Development](#)

For more information, visit our [website](#) or email claycenter@villanova.edu or call the main office at (610) 519-5532.

Academic Advising

Kelly Gregg, M.S., Assistant Dean

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VSB employs a four-year, integrative advising program. The VSB advising team, consisting of Academic Advisors, Peer Advisors, and Faculty Mentors, facilitates the exploration and development of academic and career goals, and empowers students to be responsible decision-makers and active participants in defining their futures. The advising team is a support system – from orientation to graduation – that provides exemplary academic resources enabling students to be active members of the Villanova student body and to successfully apply their unique talents and knowledge to become socially responsible members of the global community.

Each incoming first-year student is connected with an Academic Advisor and a Peer Advisor. During the first year, academic advisors support students in their transition from high school to college and assist in curricular planning and development of educational goals. More specifically, academic advisors provide guidance regarding course selection, registration, and study abroad opportunities, as well as support students as they explore experiential education and service opportunities, choice of major options, and post-graduation planning.

Transfer students are also supported throughout their tenure in VSB by an academic advisor

dedicated to addressing their unique challenges and concerns and helping them navigate their transition from another college to VSB. Transfer students have full access to all VSB opportunities and programming.

VSB Peer Advisors are sophomore, junior, and senior business students who support VSB first-year students both individually and in group meetings. Peer Advisors serve as a point of contact, providing support and guidance with regard to college transition issues, course selection, major and minor exploration, study abroad and professional opportunities, involvement on campus, and adjusting to college living. In the fall of 2022, EY, one of the Big 4 public accounting firms, began sponsoring the VSB Peer Advisor Program.

First-year students must meet with either their Peer Advisor or Academic Advisor during the course registration period to discuss scheduling and to receive their registration PIN. These meetings are critical to ensure that students progress successfully through their degree program. However, all students are encouraged to meet with their Peer Advisor or Academic Advisor at any time throughout the year.

Faculty Mentors have a breadth of knowledge to share regarding why a student would declare a major/minor in a specific field. They are available to all students to offer guidance regarding opportunities and career paths and to suggest elective courses, as well as secondary majors and minors where appropriate, to further support students' interests and deepen their knowledge in a discipline of interest. Faculty Mentors are available to all VSB undergraduate students throughout their four years.

The **VSB Peer Tutor Program** is a free service that supports the academic success of undergraduate students by providing drop-in office hours and the option to schedule individual tutoring appointments throughout the semester. VSB Peer Tutors facilitate students' independent learning processes through a collaborative partnership that focuses on increased understanding of course content and exploration of successful strategies in approaching the material.

Davis Fund for Student Experiences

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Many thanks to the generosity of Jim C. Davis '81 VSB and Kim Davis, the Davis Fund for Student Experiences advances VSB's long-standing commitment to experiential learning. The Davis Fund provides financial support to VSB students to encourage engagement in experiences that will enhance academic and professional growth. Some examples that have been funded include global opportunities, research, independent studies, nonprofit service, conferences, case studies and other experiences that reflect the University's mission and values. To learn more about the Davis Fund and the application process, please visit the webpage: business.villanova.edu/davisfund.

For additional information, contact Ms. Caitlin Gilmore, Director, Student Engagement (caitlin.gilmore@villanova.edu).

The O'Donnell Center for Professional Development

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The Charlotte and James V. O'Donnell '63 Center for Professional Development provides career-related services and initiatives designed to enrich business students' academic experience and support pursuit of professional goals. Through the Center students have opportunities to learn about themselves, career paths, and the business world by engaging with practitioners and applying what is learned in the classroom to the real world. The O'Donnell Center helps to deliver the Backpack-to-Briefcase curriculum, provides professional development coaching, coordinates experiential education initiatives, manages the VSB Mentor Program, and works closely with VSB faculty, Centers of Excellence, business societies,

and the Villanova Career Center to offer career education and employer programs that help students explore areas of interest and prepare for the business world.

Backpack-to-Briefcase Professional Development Curriculum

Professional development is incorporated into the core business curriculum through VSB's unique Backpack-to-Briefcase (B2B) program with required components starting in the first year through junior year. The O'Donnell Center and Clay Center collaborate with VSB faculty to deliver the program which combines class sessions and assignments that focus on an introduction to campus career resources, career exploration, developing a personal brand, preparing for the internship/job search, case analysis, and enhancing business writing and presentation skills. During the fall of the first year B2B requirements are embedded in the Business Dynamics course, while during the spring semester students are enrolled in a stand-alone B2B course known as VSB 0099: First-Year Experience. As sophomores and juniors, students enroll in a one-credit B2B course each year (VSB 2000: Sophomore Professional Development Seminar and VSB 3000: Bartley BriefCASE Challenge.) Seniors are encouraged to consider enrolling in optional B2B courses focused on leadership topics.

Career Education and Student Business Societies

The O'Donnell Center for Professional Development collaborates with VSB academic departments and Centers of Excellence, student business societies, Villanova Career Center, and other campus offices to sponsor, co-sponsor and/or provide support to more than 100 career education events each academic years. The programs are designed to help students explore business career paths, connect with business professionals and employers, and build their networks. The programs are wide-ranging and include professional skill-building workshops, events highlighting specific industries/professions, employer information sessions, Bartley Takeovers hosted by corporate sponsors, and TREKS (corporate site visits.)

The O'Donnell Center collaborates with VSB's 30 student-led business societies and the Council of Presidents (student society oversight board) to assist the groups in establishing goals, as well as developing and hosting professional

development programs and events. Involvement with business societies provides students with opportunities to connect with peers who share similar career interests and/or affinities. Additionally, membership may lead to leadership opportunities within the societies. Visit <https://bit.ly/vsbbusinesssocieties> for a complete list of business societies.

Experiential Education

VSB recognizes the importance of students gaining “hands-on” experience prior to graduation as a critical element of the educational experience, including as a means of applying theory to practice, clarifying career goals, and increasing marketability upon graduation. All VSB students are encouraged to pursue externships, internships, and/or CoOp opportunities. The O'Donnell Center collaborates with VSB academic departments to support business students who wish to earn (free elective) academic credit for approved business internships, as well as deliver the Spring Accounting Internship and CoOp academic programs. Guidance on the search for opportunities is provided through Backpack-to-Briefcase courses, individual coaching appointments, and the O'Donnell Center Professional Development Workshop Series.

The O'Donnell Center collaborates with the VU Career Center and other campus partners to develop employer relationships and identify externships, internships, and CoOp programs that support students' interests. These opportunities are shared with students through Handshake, the campus career management portal, and promoted through other VSB-specific outlets.

Internships/CoOps for Academic Credit

Students may earn three **free elective credits** for participation in an approved business internship or CoOp. An academic internship or CoOp is a pre-professional work experience, sufficiently rigorous to qualify to earn credit, approved by VSB faculty, and administered through the O'Donnell Center.

- **Internships for Academic Credit**

During the fall and spring semesters, students have the opportunity to participate in academic internships on a part-time basis while simultaneously taking other courses. During the summer, students may choose to participate in an internship for academic credit on a part-time or full-time basis.

Students interested in receiving credit for a business internship must submit an on-line application through the “Experiences” section of Handshake. Once the application has been received, an O'Donnell Center professional will contact you to complete the internship course review and approval process.

- **Spring Accounting Internship (SAI) Program**

The SAI program enables students to obtain in-depth, practical exposure to the accounting and business environment during the “busy season.” Students typically participate in the SAI program during their junior year. They work full-time at an accounting or related firm, earning six free elective credits for the internship course. The program is designed so that students retain full-time student status and remain on track to graduate in four years. To that end, students may take specifically designated classes during the spring semester and/or during the summer sessions immediately following SAI. The planning process for students interested in participating in SAI begins in the sophomore year and is facilitated by the O'Donnell Center in collaboration with VSB's Accounting Department.

- **Cooperative Education Program**

VSB's Cooperative Education Program (CoOps) provides students with the opportunity to experience complete immersion in a professional work environment, typically during the second semester of sophomore year or in the junior year. A CoOp experience is six months in length (fall: July-December; spring: January-June), during which time the student works at the sponsoring organization on a full-time basis. Work content mirrors that of an entry-level professional. Students earn six free elective credits for successful completion of a CoOp experience AND a competitive salary. Students maintain full-time student status and remain on track to graduate in four years by completing coursework during and before or after the CoOp assignment.

Students interested in participating in a CoOp must meet with an O'Donnell Center

professional to complete the application and approval process. Additionally, students must apply through “Handshake” to be considered for specific CoOp positions. The O’Donnell Center facilitates campus recruiting activities for CoOp programs at the beginning of each semester.

Academic credit is awarded for the defined CoOp programs supported by VSB. Currently approved CoOp programs listed below; see O’Donnell Center website for complete details:

- Bryant Park Capital Investment Banking (Finance) CoOp
- Cencora Supply Chain Finance CoOp
- Delaware County District Attorney’s Forensic Accounting/Economic Crimes CoOp
- Johnson & Johnson Accounting/Finance CoOp
- Kenvue Consumer Brand Management (Marketing) CoOp
- Kenvue Consumer Customer Development (Marketing) CoOp
- Rockwell Wealth Management (Finance) CoOp
- SAP Customer Engagement Support Operations (MIS) CoOp

Eligibility Requirements for an Academic Internship/CoOp

- Enrolled as a full time undergraduate VSB student or Business Minor
- Sophomore standing (minimum 30 credits)
- Minimum GPA of 2.5 for internships; minimum GPA of 3.0 for CoOps

Earning Academic Credit

- Three (3) free elective credits may be earned per academic internship; six (6) free elective credits may be earned for a CoOp; six (6) free elective credits may be earned for the Spring Accounting Internship. The maximum number of credits that may be earned toward degree requirements is six (6) for two separate three-credit academic internships, one spring accounting internship (6 credits), or one CoOp experience (6 credits).
- Students may complete more than one internship for academic credit in the same academic discipline provided that the nature of the experiences is significantly distinct

from one another (e.g., Sales and Marketing Research) as determined by the Chair of the sponsoring academic department.

- VSB Internship and CoOp courses fulfill free elective requirements and may not be used to fulfill major or minor requirements.
- Internships and CoOps are graded on a Satisfactory (“S”)/Unsatisfactory (“U”) basis.
- Monetary compensation for an internship/CoOp does not affect eligibility for receiving academic credit.
- Credit approval and course registration for an academic internship/CoOp course must be completed before the internship/CoOp commences. Academic credit will not be awarded retroactively for an internship/CoOp.

Internship Participation	Course Registration Deadline
Fall Semester	prior to start of internship or end of fall semester drop/add period, whichever comes first
Spring Semester	prior to start of internship or end of spring semester drop/add period, whichever comes first
Summer Semester	prior to start of internship or June 15, whichever comes first

Academic Internship/CoOp Course Requirements

- **Time:**
 - **Internship:** Complete a minimum of 150 work hours over the course of a single academic semester OR a minimum 8 weeks **and** 150 work hours over the summer period.
 - **CoOp:** Complete a full-time (typically 40 hours/week), six-month assignment.
- **Launch Session:** Attend a mandatory group session prior to the beginning of the internship/CoOp.
- **Learning Objectives:** Establish, in conjunction with company supervisor, 3-4 Learning Objectives as a means of providing focus for the work completed during the internship/CoOp experience. The Learning Objectives should be connected to the National Association of Colleges & Employers (NACE) Career Readiness Competencies. The Learning Objectives form must be completed, initialed (by intern and company supervisor) and submitted via Blackboard within the first two weeks of the internship/CoOp experience.
- **Daily Activity Log:** Maintain a Daily Activity Log, including record of dates worked, number of hours completed, nature of

projects, tasks, responsibilities, etc., relationship of activities to the Learning Objectives and how it meets the Learning Objectives and connects to the NACE Career Readiness Competencies. The Log must be initialed by the supervisor on a regular basis (i.e., once a week).

- **Final Paper:** Write a 10-12 page final paper documenting:
 - Describe the nature of the internship (i.e., responsibilities, projects, assignments, etc.)
 - What were your learning objectives at the start of your internship and how did you achieve them?
 - How did the internship relate to your past/future coursework?
 - Reflect on insights gained regarding the industry, profession, leadership styles, etc.
 - How can/will you apply your learnings to experiences in the future?
 - Did your internship experience help to focus or clarify your career goals? How so?
 - Read an excerpt about the NACE Career Readiness Competencies (see separate instruction doc for details). Select 3 career competencies and discuss how you utilized and refined these competencies during your internship. Be sure to cite 2-3 sample behaviors you practiced during your internship as well.
- **Evaluation:** Complete a Student Evaluation to help determine the effectiveness of the internship/CoOp experience, including assessment of work, quality of supervision, professional development, NACE career competencies, and the overall quality of the experience.
- **Communication:** Maintain communication with a designated O'Donnell Center professional throughout the duration of the internship/CoOp; keep the O'Donnell Center contact apprised of the experience including any issues, concerns, or problems that arise.
- **Submission Deadlines:** Completed Learning Objectives form is due via Blackboard within the first two weeks of the internship/CoOp. Due dates for submitting Daily Activity Log, Final Paper and Student Evaluation via Blackboard are:
 - Fall internship/CoOp: December 1
 - Spring internship/CoOp: May 1

- Summer internship/CoOp: August 15

Withdraw/Termination of an Academic Internship/CoOp

Students wishing to withdraw from the internship course must contact the O'Donnell Center prior to the withdrawal (WX) deadline. Deadlines for fall and spring semesters can be found in the Academic Calendar. Students withdrawing from a summer internship course must do so by July 1st. If a student withdraws from an internship in which the employer requires academic credit, the internship supervisor will be notified immediately of the withdrawal. Students who do not complete the academic internship requirements will be assigned a final grade of Unsatisfactory (U). Students who are terminated from their internship by the sponsoring employer during the course of the summer/semester may be assigned a final grade of Unsatisfactory (U).

Refunds as the result of official withdrawal from a summer internship course will be made according to the schedule listed below:

<u>Segment of the Semester</u>	<u>Refund</u>
Dropped within 24 hours of the internship start date	100%
After 24 hours of the internship start date	No Refund

International Internships

Students are encouraged to engage in internships that are part of a study abroad experience; those experiences are managed by the [Office of Education Abroad](#).

VSB Mentor Program

The VSB Mentor Program brings VSB students and alumni volunteers together in one-to-one relationships to support students' career and professional development goals. Students are invited to participate in the Mentor Program during spring of sophomore year. All student mentees and alumni mentors opt in and are paired based on the student's primary career interests, desired work location, and mutual areas of interest. Once paired, students will connect regularly with their mentors through graduation. Mentors share their knowledge and experience to support mentee's goals and professional development, building a bridge between the classroom and the professional world. You may learn more by attending one of the VSB Mentor Program Information Sessions offered regularly by the O'Donnell Center and/or visiting <https://bit.ly/vsbmentorprogram>.

The VSB Centers of Excellence

Daniel M. DiLella Center for Real Estate

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The Daniel M. DiLella Center for Real Estate was established to provide students with exceptional academic and experiential learning opportunities within the transformative real estate industry. The DiLella Center supports students as they develop into the next generation of real estate leaders. Students are able to connect theory to practice through case competitions, corporate site visits, alumni mentorship, thought-leadership initiatives, and hands-on leadership within the real estate society and student-managed investment fund.

Elenore and Robert F. Moran Sr. Center for Global Leadership

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The Elenore and Robert F. Moran Sr. Center for Global Leadership serves as a hub of innovation for VSB's international curricular initiatives, faculty research, service and outreach activities. The Center promotes the guiding principles of cross-cultural awareness, ethical international business practices, and responsible global leadership for the betterment of business and society.

Center for Business Analytics

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The Center for Business Analytics (CBA) is dedicated to preparing VSB graduates to become analytics leaders in their organizations. The CBA brings together industry executives and world-class faculty to create curricula and experiential programming that positions students to deploy analytics techniques to solve increasingly complex business problems.

Center for Church Management

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VSB's Center for Church Management (CCM) enables current and future church leaders to steward the human, financial, and other resources of the church by teaching business best practices in a Christian context of mission and ministry. CCM offers the world's first and only Master of Science in Church Management, as well as performing research and conducting non-credit programs in church and school management throughout the year.

Center for Marketing and Consumer Insights

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The Center for Marketing and Consumer Insights (CMCI) brings together top marketers from global marketing organizations with our world class faculty at VSB. The purpose of CMCI is to bring industry best practices and experiences into the classroom for VSB students, and to provide experiential learning opportunities outside of the classroom throughout the academic year. CMCI's Executive board of C-suite marketers provide strategic insight and direction for Center initiatives, and the Advisory Council of more recent alumni offers real-time insights to opportunities in the field of marketing. Finally, CMCI supports in-classroom student consumer research opportunities through the LAIR as well as faculty consumer research opportunities for our research-active VSB contributors. Visit our [website](#) for details.

VSB Office of Diversity, Equity and Inclusion

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The Office of Diversity, Equity, and Inclusion (ODEI) is committed to cultivating a more inclusive VSB community, serving all members and stakeholders and reflecting the University's commitment to equality, justice, and mutual respect. ODEI offers programming, training, and support services to advance understanding of identity, inclusion, and belonging, embracing collaborative conversation as an approach to helping all who join our community feel welcomed.

For more information, visit our [website](#) or email vsbdiversity@villanova.edu or contact Assistant Director, Zakiya Newton, at (610) 519-3939.

Degree Program

Undergraduate Degrees Offered

The Villanova School of Business offers the **Bachelor of Business Administration** degree with majors in:

- [Accounting](#)
- [Economics](#)
- [Finance](#)
- [Management](#)
- [Management Information Systems](#)
- [Marketing](#)
- [Real Estate](#)
- [Analytics & Artificial Intelligence co-major](#)
- [International Business co-major](#)

Co-majors must be taken in conjunction with another business major.

The major course requirements are in addition to the business core requirements. A major GPA of 2.00 is required. All major courses must be taken at Villanova with the exception of courses approved through study abroad programs. Accounting courses may not be taken abroad.

In addition, except for co-majors, each VSB major requires six (6) unique major courses to fulfill the major requirements.

The **Bachelor of Business Administration, Honors** degree is also available to students accepted to the Honors Program as incoming first year students.

Baccalaureate Degree Requirements

The requirements for the Bachelor of Business Administration (BBA) degree are:

- Completion of all *core curriculum* requirements, *academic major course* requirements, and *elective* requirements for the degree with an overall cumulative quality point average (QPA) of not less than 2.00, a cumulative technical quality point average of not less than 2.00, and a cumulative major quality point average of not less than 2.00.
- For transfer students, no more than 60 credits may be transferred into a program including AP, transfer, and study abroad. **No more than 22 transfer credits will apply to satisfy business core classes.**
- The final 30 credit hours of a student's academic program must be completed at Villanova (residency requirement). With permission of the Associate Dean, a student may study abroad during the first semester of senior year.
- Discharge of all financial obligations to Villanova University.

Students are responsible for the degree requirements in effect at the time of their initial enrollment. If they are formally readmitted to VSB, they must meet the requirements of their new graduating class. Transfer students' degree requirements are determined at time of transfer.

A student's eligibility for graduation is determined by the Dean. **NOTE:** it is the personal responsibility of the student to ensure that all requirements for graduation are met.

Students accepted to the Honors Program may earn the **Bachelor of Business Administration, Honors** degree by successfully completing the following degree requirements:

1. Complete ten (10) 3 cr. Honors courses plus VSB 2121 Business Scholars Seminar (1 cr.). At least four (4) of ten (10) 3 cr. Honors courses must be a VSB Honors course:
 - VSB 1015 Business Dynamics
 - At least one of the following five required VSB courses must be an Honors course.
 - VSB 2004 Financial Accounting
 - VSB 2007 Corporate Responsibility & Regulation
 - VSB 2008 Business Analytics
 - VSB 2009 Principles of Finance
 - VSB 2014 Principles of Managerial Accounting
 - VSB 3900 Innovation and Design
 - VSB 4002 Strategic Thinking and Implementation
2. Complete all major courses, core requirements, and elective requirements, and earn at least of 126 credit hours.
3. Must achieve a minimum of 3.33 cumulative GPA and meet the minimum required technical GPA and major GPA requirements.

Upon successful completion of VSB 2121, students will have an opportunity to serve as a research associate with a VSB professor for up to three years.

VSB students will be permitted to bundle three one-credit colloquia to fulfill one Honors requirement with the understanding that the bundle does not fulfill any VSB degree requirements (e.g., free electives, etc.). Therefore, the "bundle" will only count towards the number of Honors courses taken but would be in addition to the 126 credits required to graduate with an VSB Honors degree.

Below are the current course numbers that can be bundled for Honors credit:

HON 5001 - Shaping a College Life
HON 5003 - Shaping a Work Life **Note:** HON 5003 can only be bundled when not satisfying VSB 2000
HON 5305 - Colloquia (various topics)
HON 5490 - Culture Leadership Workshop
HON 6003 - Integrative Capstone

In addition to the course requirements, students will be presented with opportunities to engage with faculty, staff, corporate partners and alumni through a range of personal and professional development offerings. The goal is to provide

Honors students with opportunities and challenging intellectual engagement across three areas at VSB:

- VSB Honors Classes
- Intellectual Engagement (research and other faculty engagement)
- Targeted Professional Development Opportunities

<https://www1.villanova.edu/villanova/provost/honors.html>

Basic Curriculum

The curriculum outlined below provides a suggested sequence to complete the baccalaureate degree requirements. However, this suggested sequence should not be viewed as limiting since individual adjustments are made to meet desired educational objectives.

Liberal Arts & Sciences Curriculum (44 Credits)

Augustinian Values (18 Credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
ETH 2050	The Good Life:Eth & Cont Prob	3
PHI 1000	Knowledge, Reality, Self	3
THL 1000	Faith, Reason, and Culture	3
	THL Elective	3

Math and Science (11 Credits)

Course	Title	Credits
	Business Statistics	4
	Computer Science OR Natural Science	3
MAT 1500	Calculus I	4

Humanities and Social Sciences (15 Credits)

Course	Title	Credits
	Behavioral Science	3
	Computer Science OR Natural Science OR Social Science	3
	History Elective	3
	Humanities Elective	3
ENG 1975	Core Lit and Writing Seminar	3

Business Core Curriculum (45 Credits)

Course	Title	Credits
ECO 1001	Intro to Micro	3
ECO 1002	Intro to Macro	3
ECO 3108	Global Political Econ	3
VSB 0099	B2B:FR Experience	0
VSB 1000	Information Technology	1
VSB 1003	Bloomberg Markets Concepts	0
VSB 1015	Business Dynamics	3
VSB 2000	Backpack-to-Briefcase:SO Sem	1
VSB 2004	Financial Accounting	3
VSB 2006	Introduction to MIS	3
VSB 2007	Corp Respon & Regulation	3
VSB 2008	Business Analytics	3
VSB 2009	Principles of Finance	3
VSB 2014	Principles of Managerial Acct	3
VSB 2020	Competitive Effectiveness	6
VSB 3000	Backpack-to-Briefcase:JR Sem	1
VSB 3008	Operations&Supply Chain Mgmt	3
VSB 4002	Strategic Think & Implem	3

Major Courses (18 Credits)

Course	Title	Credits
	Six Major Courses for BBA	18

Electives (18 Credits)

Course	Title	Credits
	Non-Business Elective	3
	Free Electives	15

Basic Curriculum By Year (125 Credits)

First Year (33 Credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
	Business Statistics	4
ECO 1001	Intro to Micro	3
ECO 1002	Intro to Macro	3
ENG 1975	Core Lit and Writing Seminar	3
MAT 1500	Calculus I	4
VSU 0099	B2B:FR Experience	0
VSU 1000	Information Technology	1
VSU 1003	Bloomberg Markets Concepts	0
VSU 1015	Business Dynamics	3
VSU 2004	Financial Accounting	3
VSU 2006	Introduction to MIS	3

Sophomore Year (31 Credits)

Course	Title	Credits
	Behavioral Science	3
	Humanities Elective	3
PHI 1000	Knowledge, Reality, Self	3
THL 1000	Faith, Reason, and Culture	3
VSU 2000	Backpack-to-Briefcase:SO Sem	1
VSU 2007	Corp Respon & Regulation	3
VSU 2008	Business Analytics	3
VSU 2009	Principles of Finance	3
VSU 2014	Principles of Managerial Acct	3
VSU 2020	Competitive Effectiveness	6

Junior Year (31 Credits)

Course	Title	Credits
ECO 3108	Global Political Econ	3
ETH 2050	The Good Life:Eth & Cont Prob	3
	Computer Science OR Natural Science	3
	Computer Science OR Natural Science OR Social Science	3
	History Elective	3
	Three Major Courses for BBA	9
	Non-Business Elective	3
VSU 3000	Backpack-to-Briefcase:JR Sem	1
VSU 3008	Operations&Supply Chain Mgmt	3

Senior Year (30 Credits)

Course	Title	Credits
	Three Major Courses for BBA	9
	THL Elective	3
VSU 4002	Strategic Think & Implem	3
	Free Electives	15

Note:

- **ENG 1975** (Core Lit and Writing Seminar), **ETH 2050** (The Good Life:Eth & Cont Prob), **PHI 1000** (Knowledge, Reality, Self), **THL 1000** (Top: Catholic Studies OR Top: Faith, Reason, and Culture OR Top: Global Religious Experience), and **all business courses** - including ECO 1001 (Intro to Micro), ECO 1002 (Intro to Macro) and ECO 3108 (Global Political Econ - this course maybe taken abroad upon approval) must be taken at Villanova.
- **BL 2185** is recommended for ACC majors who want to sit for CPA certification.

Pre-Requisites for Core Business Courses:

Course	Pre-requisites
ECO 1001	None
ECO 1002	None
ECO 3108	ECO 1001 and 1002
VSU 0099	None
VSU 1000	None
VSU 1003	None
VSU 1015	None
VSU 2000	Sophomore Cohort
VSU 2004	ECO 1001-Concurrently, ECO 1002-Concurrently, VSU 1000-Concurrently, VSU 1015
VSU 2006	ECO 1001-Concurrently, ECO 1002-Concurrently, VSU 1000-Concurrently, VSU 1015
VSU 2007	ECO 1001-Concurrently, ECO 1002-Concurrently, VSU 1015
VSU 2008	ECO 1001-Concurrently, ECO 1002-Concurrently, MAT 1500, STAT 1430, VSU 1000, VSU 1015, VSU 2006
VSU 2009	ECO 1001, ECO 1002, VSU 1000, VSU 2004 and STAT 1430-Concurrently
VSU 2014	VSU 2004
VSU 2020	ECO 1001, ECO 1002, VSU 1000, VSU 1015, VSU 2004-Concurrently
VSU 3000	Junior Cohort
VSU 3008	STAT 1430, VSU 2008, VSU 2009, VSU 2020
VSU 4002	ECO 3108, VSU 2006, VSU 2007, VSU 2008, VSU 2014, VSU 3008

THL Elective

Elective Credits 3

Any 3-credit course choose from:

- Any THL course with course number 2000 or higher
- Any course with the ATHL, CTHL, or THL course attribute
- For VSB students, the following courses may also fulfill the THL requirement:
[HON 1053](#), [HON 2003](#), HON 4800, or [HON 4801](#)
[HUM 2001](#) or HUM 5800

Note: the following courses do not fulfill the Theology elective requirement:

- THL [6050](#) or [THL 6051](#)
- [THL 1000](#), THL [6050](#), or [THL 6051](#)

Business Statistics

Elective Credits 4

VSB students are required to take [STAT 1430](#) (Business Statistics).

For transfer students who have taken both [STAT 1230](#) (3 cr.) and [STAT 1235](#) (3 cr.) prior to transfer, credit will be given for STAT 1430 only. [STAT 1230](#) should be moved to the "Over the Limit" section in the Degree Work audit and it will not fulfill any degree requirement.

Computer Science OR Natural Science

Elective Credits 3

Any 3-credit course choose from:

- AST (Astronomy/Astrophysics)
- BIO (Biology)
- CHM (Chemistry)
- CSC (Computer Science)
- GEV (Geography and the Environment)
- MET (Meteorology)
- MSE (Mendel Science Experience) - for transfer students who have taken a MSE course only
- PHY (Physics)
- Or any 3-credit course with an AST, BIO, CHM, CSC, GEV, or PHY course attribute

Note: the following courses do not fulfill the Computer Science or Natural Science requirement:

- [BIO 1903](#), [BIO 1906](#), [BIO 2993](#), [BIO 2996](#)
- [CHM 1903](#), [CHM 1906](#), [CHM 1909](#), [CHM 2993](#), or [CHM 2996](#)
- [CSC 2993](#), [CSC 2996](#)
- [GEV 1903](#), [GEV 1906](#), [GEV 1909](#), [GEV 2993](#), or [GEV 2996](#)

A science lab is not required.

Behavioral Science

Elective Credits 3

Any 3-credit course choose from:

- CBN (Cognitive and Behavioral Neuroscience) - for transfer students who have taken a CBN course only
- CGS (Cognitive Science) - for transfer students who have taken a CGS course only
- PSY (Psychology)
- SOC (Sociology)
- Or any 3-credit course with a PSY or a SOC attribute

Note: the following courses do not fulfill the Behavioral Science requirement:

- [PSY 2993](#) or PSY 2996
- [SOC 1903](#), SOC 1906, SOC 1909, SOC [2993](#), or SOC 2996

Computer Science OR Natural Science OR Social Science

Elective Credits 3

For the detailed course list for the Computer Science or Natural Science requirement, please refer to the **Math and Science** section.

Social Science

Any 3 credit-course choose from:

- AAH (Art and Art History)
- AFR (Africana Studies)
- ARB (Arabic) with course number 2000 or higher
- CBN (Cognitive and Behavioral Neuroscience) - for transfer students who have taken a CBN course only
- CGS (Cognitive Science) - for transfer students who have taken a CGS course only
- CHI (Chinese) with course number 2000 or higher
- COM (Communication)
- CRM (Criminal Justice)
- CST (Cultural Studies)
- EDU (Education)
- FFS (French and Francophone Study) with course number 2000 or higher
- GEV (Geography and the Environment)
- GIS (Global Interdisciplinary Studies)
- GWS (Gender and Women's Studies)
- HIS (History)
- HON (Honors) 4400, HON 4500, HON 4900
- HUM (Humanities) 2004, HUM 2100, HUM 3200, HUM 3400, HUM 4000, HUM 5150, HUM 5950
- IS (Irish Studies) with course number 3100 or higher
- ITA (Italian) with course number 2000 or higher
- JPN (Japanese) with course number 2000 or higher
- LAS (Latin American Studies)
- LSSC (Social Science Elective)
- MSE (Mendel Science Experience) - for transfer students who have taken a MSE course only
- NS (Naval Science) 1100
- PA (Public Administration)
- PSC (Political Science)
- PSY (Psychology)
- RLL (Romance Languages and Literatures) with course number 2000 or higher
- RUS (Russian) with course number 2000 or higher
- SCSC (Social Science)
- SOC (Sociology)
- Or any 3 credit-course with one of the following attributes:
AAH, AFR, AHIS, CBN, CGS, CHIS, COM, CRM, CSCI, CSSC, CST, EDU, GEV, GIS, GWS, HIS, LAS, MSE, PA, PSC, PSY, SCSC, or SOC

Note: the following courses do not fulfill the Computer Science or Natural Science or Social Science requirement:

- [AAH 1903](#), [AAH 2993](#)
- [COM 1903](#), [COM 1906](#), [COM 1909](#), [COM 2993](#), [COM 2996](#), [COM 3993](#)
- [CRM 6003](#)
- [FFS 2993](#)
- [GEV 1903](#), [GEV 1906](#), [GEV 1909](#), [GEV 2993](#), [GEV 2996](#)
- [GIS 2993](#), [GIS 2996](#)
- [GWS 2993](#)
- [HIS 1903](#), [HIS 1906](#), [HIS 1909](#), [HIS 2993](#), [HIS 2996](#)
- [ITA 2993](#)
- [LAS 5000](#)
- [PA 6100](#)
- [PSC 6503](#)
- [PSY 2993](#) or [PSY 2996](#)
- [SOC 1903](#), [SOC 1906](#), [SOC 1909](#), [SOC 2993](#), or [SOC 2996](#)

History Elective

Elective Credits 3

Any 3-credit course choose from:

- AAH (Art and Art History)
- [CLA \(Classics\) 1250](#), [CLA 2051](#), [CLA 2052](#)
- HIS (History)
- [HON \(Honors\) 2002](#) or [HON 3100](#)
- [HUM \(Humanities\) 5975](#)
- [NS \(Naval Science\) 1100](#)
- Or any 3-credit course with an AAH, AHIS, CHIS, or HIS course attribute

Note: The following courses do not fulfill the History elective requirement:

- [AAH 1903](#), [AAH 2993](#)
- [HIS 1903](#), [HIS 1906](#), [HIS 1909](#), [HIS 2993](#), [HIS 2996](#)

Humanities Elective

Elective Credits 3

Any 3-credit course choose from:

- AAH (Art and Art History)
- AFR (Africana Studies)
- ARB (Arabic)

- ASL (American Sign Language) - for transfer students who have taken an ASL course only
- CHI (Chinese)
- CLA (Classics)
- [COM \(Communication\) 1300](#)
- CST (Cultural Studies)
- ENG (English) with course number 2000 or higher
- ETH (Ethics)
- FFS (French and Francophone Study)
- GIS (Global Interdisciplinary Studies)
- GRK (Greek)
- GWS (Gender and Women's Studies)
- HBW (Hebrew)
- HIN (Hindustani)
- HIS (History)
- [HON \(Honors\) 1000](#), [HON 1003](#), [HON 1051](#), [HON 1053](#), [HON 2002](#), [HON 2005](#), [HON 3100](#), [HON 3600](#), [HON 4300](#), [HON 4301](#), [HON 4800](#), [HON 5100](#)
- HUM (Humanities)
- IS (Irish Study)
- ITA (Italian)
- JPN (Japanese)
- LAS (Latin American Studies)
- LAT (Latin)
- LHUM (Humanities Elective)
- [NS \(Naval Science\) 1100](#)
- PHI (Philosophy)
- RLL (Romance Languages and Literature)
- RUS (Russian)
- SAR (Studio Art and Music)
- SPA (Spanish)
- SWA (Swahili)
- THE (Theater)
- THL (Theology)
- Or any 3-credit course with one of the following course attributes:
AAH, AFR, AHIS, APhi, ARB, CHI, CHIS, CLA, CST, ENG with course number 2000 or higher, ETH, FFS, FINE, GIS, GRK, GWS, HIS, HUM, IS, ITA, JPN, LAS, LAT, PHI, RLL, RUS, SAR, SPA, THE, or THL

Note: the following courses do not fulfill the Humanities elective requirement:

- [AAH 1903](#), [AAH 2993](#)
- [ENG 2021](#), [ENG 2993](#), [ENG 2996](#), 2998, [2999](#)
- [ETH 2050](#)
- [FFS 2993](#)
- [GIS 2993](#), [GIS 2996](#)
- [GWS 2993](#)
- [HIS 1903](#), [HIS 1906](#), [HIS 1909](#), [HIS 2993](#), [HIS 2996](#)

- [HUM 1903](#), [HUM 1906](#), [HUM 2993](#), [HUM 2996](#)
- [ITA 2993](#)
- [LAS 5000](#)
- [PHI 1000](#), [PHI 2993](#), [PHI 2996](#)
- [SPA 3993](#)
- [THL 1000](#), [THL 6050](#), [THL 6051](#)

Six Major Courses for BBA

Elective Credits 18

Six Major Courses

Non-Business Elective

Elective Credits 3

Free Electives

Elective Credits 15

Five Free Electives

Three Major Courses for BBA

Elective Credits 9

Three Major Courses

Core Curriculum Requirements

LIBERAL ARTS & SCIENCES CURRICULUM (44 Credits)

Augustinian Values (18 Credits)

ACS 1000	Ancients
ACS 1001	Moderns
ETH 2050	The Good Life: Ethics & Contemporary Problems
PHI 1000	Knowledge, Reality, Self
THL 1000	Top: Catholic Studies; OR Top: Faith, Reason, and Culture;
OR	
	Top: Global Religious Experience
THL XXXX	Theology Elective (course number 2000 or higher)

Math and Science (11 Credits)

XXXX	Computer Science OR Natural Science*
MAT 1500	Calculus I (4 cr.)
STAT 1430	Business Statistics (4 cr.)

Humanities and Social Sciences (15 Credits)

XXXX	Behavioral Science*
XXXX	Computer Science OR Natural Science OR Social Science*
XXXX	Humanities Elective*
ENG 1975	Core Lit and Writing Seminar
HIS XXXX	History Elective*

BUSINESS CORE CURRICULUM (45 Credits)

ECO 1001	Intro to Microeconomics
ECO 1002	Intro to Macroeconomics
ECO 3108	Global Political Economy
VSU 0099	Backpack-to-Briefcase: FR Experience (0 cr.)
VSU 1000	Information Technology (1 cr.)
VSU 1003	Bloomberg Markets Concepts (0 cr.)
VSU 1015	Business Dynamics
VSU 2000	Backpack-to-Briefcase: SO Seminar (1 cr.)
	(or HON 5003: Shaping a Work Life - 1 cr.)
VSU 2004	Financial Accounting
VSU 2006	Introduction to MIS
VSU 2007	Corporate Responsibility & Regulation
VSU 2008	Business Analytics
VSU 2009	Principles of Finance
VSU 2014	Principles of Managerial Accounting
VSU 2020	Competitive Effectiveness (6 cr.)
VSU 3000	Backpack-to-Briefcase: JR Seminar (1 cr.)
VSU 3008	Operations and Supply Chain

* Please refer to the [Basic Curriculum](#) section for the detailed course list.

Electives

1 Non-Business Elective (3 Credits)
5 Free Electives (15 Credits)

Non-Business Minors for Business Majors

Students enrolled in VSB may pursue minors in programs offered by other colleges of the University, including the [Honors Program](#). Detailed information on the process for approval may be obtained in the department of the discipline of the minor.

VSB Minors for Business Majors

VSB students may pursue a minor in various business disciplines:

- [Accountancy](#)
- [Analytics & Artificial Intelligence](#)
- [Artificial Intelligence and Machine Learning](#)
- [Business Law and Corporate Governance](#)
- [Consulting for Non MGT major](#)
- [Economics](#)
- [Finance](#)
- [International Business](#)
- [Management Information Systems](#)
- [Marketing](#)
- [Real Estate](#)

Each VSB minor requires three (3) unique business courses to fulfill the minor requirements.

See course requirements listed under **Academic Programs** for more detailed information.

VSB Policy and Information

VSB Policies

Unless otherwise noted, VSB follows the general university academic policies and regulations listed in the University section of this catalog. The specific VSB policies are listed in the [VSB Undergraduate Handbook](#). It is the responsibility of the student to know and comply with all academic policies and regulations of the University and the Villanova School of Business. Such policies are subject to change without prior notice.

For more information, please contact The Clay Center at VSB at claycenter@villanova.edu or call the main office at (610) 519-5532.

Academic Integrity

academic integrity, n.: the process of maintaining honesty about ideas and their sources, and avoiding behaviors such as cheating on tests, plagiarizing papers, falsifying data.

Academic integrity is a primary value for any institution of higher education. Cheating on tests, plagiarism, and other forms of academic dishonesty and misconduct are completely unacceptable, especially at Villanova which prides itself on its commitment to the Augustinian values of truth, unity, and love.

Please use this site to view:

- [The Code of Academic Integrity](#)
- [Academic Integrity Policy](#)
- [Detailed Procedures for Appeals](#)
- [FAQs](#)
- [Flow Chart Summarizing Process](#)

Faculty should submit a violation using the **Report a Violation of the Academic Integrity Code** in MyNOVA. The link to the form can be found at: [Report a Violation of the Academic Integrity Code](#) | MyNova (villanova.edu)

Villanova University is a member of the [Center for Academic Integrity](#). Please visit their website for more information on Academic Integrity in general.

The Office of Academic Affairs and Falvey Library collaborated to create the [Academic Integrity Gateway](#), a website with information about academic integrity and avoiding plagiarism. Faculty and students are encouraged to visit the Gateway, complete the interactive quiz, and use the web site as resource for writing papers.

Individuals with questions about academic integrity may contact:

Alice Dailey, PhD
Professor of English
Chair, Board of Academic Integrity
Villanova University
800 E. Lancaster Avenue
Villanova, PA 19085-1699
Tel. 610-519-5929
Email: alice.dailey@villanova.edu

Academic Standing and Probation

The academic records of all VSB students falling below a 2.00 cumulative GPA and/or technical GPA (business courses) and/or major GPA in any semester will be reviewed by the VSB Academic Standing Committee for appropriate action which may include being placed on academic probation or dismissal. If students have less than a 2.0 major GPA after attempting 6 credits in their major (primary or secondary), they will be placed on academic probation **or** they will have the option to change their major. Students placed on academic probation are expected to achieve either a 2.0 major GPA at the end of the semester or demonstrate substantive improvement by earning grades of B or higher in subsequent major coursework to progress in that major. If students earn less than a 2.0 major GPA whilst on academic probation and/or after attempting 9 or more credits in their major, they will be required to declare an alternate major. The alternate major must be chosen in a discipline where students have demonstrated good academic performance (a grade of B or higher) in the relevant VSB core courses.

Students on academic probation will normally be allowed only one semester to achieve the required GPA (2.0). However, students can be dropped from VSB without ever being placed on probation. While on academic probation, students are limited to a schedule of four courses per semester (except students on probation due to major GPA) and are ineligible to participate in any extracurricular activities.

Students who are dismissed from VSB with right of appeal may appeal the decision by submitting additional information to the Committee. This must be submitted in writing before a specified date stated in the letter of dismissal.

Students who are dismissed from VSB without right of appeal must be away from Villanova University for two semesters (summer sessions count as one) before reapplying. The Academic Standing Committee will review the request for readmission, the former academic records, and the achievements obtained while away from Villanova, and make a decision whether to readmit the students. Normally students are expected to show successful completion of courses at another university before reapplying to Villanova. Villanova does not pre-approve courses to be taken at another university after a student has been dismissed. Candidates for readmission to the University demonstrate readiness to return to Villanova by the completion of 12 credits with grades of "B" or higher. If applicants are readmitted, then credits may be considered for transfer to Villanova in alignment with the Transfer Credit Policy.

For more information regarding the University's dismissal policy, please visit:

www1.villanova.edu/villanova/provost/resources/student/policies/dismissal.htm

Advanced Placement

Students who have achieved the score of 4 or 5 in the College Board Advanced Placement Tests may be granted college credits. AP credits are considered transfer credits. The maximum number of transfer credits allowed is 60 credits which includes AP, Study Abroad, and credits taken at another institution.

Incoming first-year students are required to submit an original AP score report directly to the

Registrar's Office. Upon receipt of the official score report, The Clay Center at VSB will determine if credits will be granted. Questions or concerns should be directed to your Academic Advisor.

Please Note: All AP score reports must be received by the last day of classes in the spring semester in first year. **In addition, credit cannot be granted retroactively once an equivalent course has been completed at Villanova.** For transfer students, all AP score reports must be received no later than September 15 of the year in which they transfer.

To request the official report from the College Board, please contact the College Board Customer Service Office at 1-888-225-5427 or visit: professionals.collegeboard.com/testing/ap/scores.

Subject-Test Number	Mini. Score	Courses Cr.	Fulfilling VSB Requirement
US History (7)	4	HIS 1003 or HIS 1002	Humanities or History or Social Science
Art History (13)	4	AAH 1102 or AAH 1101	Humanities or History or Social Science
Biology (20)	4	BIO 2105 BIO 2106	Natural Science and Social Science
Chemistry (25)	4	CHM 1103 CHM 1104 CHM 1151 CHM 1152	Natural Science and Social Science
Chinese Lang. & Culture (28)	4	CHI 1009 CHI 1010	Humanities and Non-Bus.
Computer Science A (31)	4	CSC 1051	Natural Science or Social Science
Computer Science Principles (32)	4	CSC 1020	Natural Science or Social Science
Economics: Micro (34)	5	ECO 1001	ECO 1001
Economics: Macro (35)	5	ECO 1002	ECO 1002
English Lang. & Comp. (36) or English Lit. & Comp. (37)	4	ENG 1020	ENG 1975
Environmental Science (40)	4	GEV 1052	Natural Science or Social Science
European History (43)	4	HIS 1021	Humanities or History or Social Science

French Lang. & Culture (48)	4	FFS 1119 FFS 1120	Humanities and Non-Bus.
Human Geography (53)	4	GEV 1002	Natural Science or Social Science
Govt. & Politics: US (57)	4	PSC 1100	Social Science or Non-Bus.
Govt. & Politics: Comparative (58)	4	PSC 1300	Social Science or Non-Bus.
Latin (60)	4	LAT 1119 LAT 1120	Humanities and Non-Bus.
Italian Lang. & Culture (62)	4	ITA 1119 ITA 1120	Humanities and Non-Bus.
Japanese Lang. & Culture (64)	4	JPN 1009 JPN 1010	Humanities and Non-Bus.
Calculus AB (66) or Calculus Subgrade (69)	4	MAT 1500	MAT 1500
Calculus BC (68)	4	MAT 1500 MAT 1505	MAT 1500 and Non-Bus.
Physics C: Mechanics (80)	4	PHY 1100 PHY 1101	Natural Science or Social Science
Physics C: Elec. & Magnetism (82)	4	PHY 1102 PHY 1103	Natural Science or Social Science
Psychology (85)	4	PSY 1000	Behavioral Science or Social Science
Spanish Lang. (87) or Spanish Lit. & Culture (89)	4	SPA 1119 SPA 1120	Humanities and Non-Bus.
Statistics (90)	4	STAT 1230 or CSC 2300	Non-Bus. or Free
World History (93)	4	HIS 1050 or HIS 1040	Humanities or History or Social Science

MAT 1505 or STAT 1230 fulfills a non-business or free elective

Note:

- For the A Level related transfer credits, please refer to the [A Level Courses and Equivalency](#) section for the detailed information.
- For the International Baccalaureate (IB) related transfer credits, please refer to the [International Baccalaureate \(IB\) Credit](#) section for the detailed information.

A Level Courses and Equivalency

A student may be granted credit for Cambridge International A Level examinations taken during high school, provided the student earned a final grade of A or B. **We do not accept credit for "AS" (first year) exams.** Official grade reports (from Cambridge or the student's high school) should be sent to the Villanova Registrar's Office, which will determine course credit according to the table below. All A Level grades must be accepted and approved before a student completes two semesters at Villanova. If grades are received before fall semester classes begin, the Clay Center at VSB will communicate with the student and authorize the Registrar's Office to add the appropriate course credit to the student's academic record. If A Level grades are received after classes begin, the Clay Center will direct the Registrar to add any further course credit for which students are eligible. Students should check with their Academic Advisor during the first week of classes to verify Villanova's receipt of official scores and ensure that proper adjustments have been made to their academic record and course schedule.

Note that A Level credits are considered transfer credits. The maximum number of transfer credits allowed is 60 credits which includes AP/IB/A Level, Study Abroad, and credits taken at another institution.

Subject	Equivalent Villanova Course(s)	Credits	VSB Requirement Filled
Arabic - Language (AS Level only) - 8680	ARB 1111 & 1112 with A/B grade. ARB 1111 with grade of C or better.	4/4 4	Humanities and Non-Bus. Humanities or Non-Bus.
Biology - 9700	BIO 2105 & BIO 2106 CHM 1103 & CHM 1104	4/4 1/1	Natural Science and Social Science Natural Science
Chemistry - 9701	CHM 1151 & CHM 1152	4/4	and Social Science
Chinese - Language & Literature (A-Level only) - 9868	CHI 1009 & 1010 with A/B grade. CHI 1009 with grade of C or better.	4/4 4	Humanities and Non-Bus. Humanities or Non-Bus.
Computer Science - 9618	See below*	-	
Economics - 9708	ECO 1001 & ECO 1002	3/3	ECO 1001 and ECO 1002
English Literature - 9695	ENG 2790	3	Humanities or Non-Bus.

French Language (AS Level only) - 8682	FFS 1131	3	Humanities or Non-Bus.
French Language & Literature - 9898	FFS 1131	3	Humanities or Non-Bus.
Geography - 9696	GEV 1002 & GEV 1003	3/3	Natural Science and Social Science History or Humanities or Social Science History or Humanities or Social Science
History - 9489	HIS 1050	3	
History - 9981	HIS 2698	3	
Mathematics - 9709	See below*	-	
Mathematics (Further) - 9231	See below*	-	
Physics - 9702	TBD	-	
Psychology	PSY 1000	3	Behavioral Science or Social Science
Sociology - 9699	SOC 1000	3	Behavioral Science or Social Science
Spanish Language & Literature (A-Level only) - 9844	SPA 1119 & SPA 1120	3/3	Humanities and Non-Bus.

*Students who take A-Level for Math, Statistics, or Computing Science should consult with your academic advisor because credit may be granted but is not guaranteed.

Note:

1. For the Advanced Placement (AP) related transfer credits, please refer to the [Advanced Placement](#) section for the detailed information.
2. For the International Baccalaureate (IB) related transfer credits, please refer to the [International Baccalaureate \(IB\) Credit](#) section for the detailed information.

Auditing a Class

A student may elect to audit a course to reinforce and strengthen his/her current knowledge or to explore new areas without the pressure of tests and grades. No academic credit and letter grade are earned for auditing a course. However, the audited course is noted on the student's official record and the same tuition and fees are charged. The [Request to Audit a Course Form](#) is available at the VSB Undergraduate Forms page in myNOVA. The approval of a faculty member must be obtained, before the drop/add period (first week of the semester), in order to audit a class. The VSB policy regarding "overloads" applies to classes to be audited. **Students are not**

permitted to audit a required course or to officially register for a course after the course has been audited.

Class Attendance

Class and laboratory attendance for first-year students is mandatory. A first-year student will receive a grade of "Y" (failure) whenever the number of unexcused absences in a course exceeds twice the number of weekly class meetings for the course.

For students beyond the first year, attendance policies are determined by the instructors of the various courses. The instructor's class attendance policy must appear in the syllabus and at a minimum must allow for the University's excused absences listed below and personal days (see below). Enforcement of such attendance policies lies with those instructors. If the instructor thinks a student has too many absences (total of excused and unexcused), then the instructor should discuss the student's attendance with the appropriate Assistant or Associate Dean of the instructor's college in order to determine if the student should withdraw or receive an incomplete.

Where possible, students should inform their instructors if they plan to be late or absent from class. In all cases, students should be prepared to provide documentation to petition for excused absences to the appropriate Assistant or Associate Dean of their college. Excused absences do not count toward a failure in the course for first year students. Absence from class does not release the student from work assigned. Students who miss an in-class obligation (exam, presentation, etc.) due to an excused absence will not be penalized - the instructor may offer a make-up test, arrange an alternative time for a presentation, exempt a student from the assignment, or provide another arrangement.

The University's list of excused absences for all students includes the following:

- participation in NCAA athletic competitions
- participation in special academic events (e.g., conferences, field trips, project competitions)

- participation in official university business (e.g., student representatives attending meetings related to university governance)
- attendance at significant events involving the immediate family (e.g., funerals, weddings)
- religious holidays - see the University's Policy on Religious Holidays
- college-approved participation in placement activities (e.g., job interviews, graduate school interviews, attending job fairs)
- legally required absence (jury duty, court appearance, short-term military service)
- documented serious illness or disability (see below how to document)

If instructors want to verify that the absence qualifies as an excused absence under the university list or verify that the student is permitted to participate in the activity, they should contact the designated Assistant or Associate Dean of the student's College.

The College of Professional Studies has separate attendance policies for FastForward courses and professional education courses/programs. The College of Nursing has a separate attendance policy for clinical experiences. Graduate Studies in the College of Liberal Arts and Sciences has separate attendance policies for online degree programs.

Documenting a Serious Illness or Disability

The Student Health Center does not provide notes to excuse absences for students missing class due to their visit to the Student Health Center, or to excuse class absences due to most common illnesses. The Student Health Center will also not provide notes to excuse absences for medical conditions that were not treated at the Student Health Center. The purpose of this policy is to eliminate unnecessary visits from students whose sole purpose is obtaining class absence notes for their professors.

Some illnesses may legitimately prevent a student from attending classes but are not serious enough to require evaluation and treatment from the Student Health Center. Students often provide self-care, which is very appropriate for many common illnesses such as cold, viral infection, or uncomplicated flu. Students should inform their instructors if they are missing class for a common illness. Instructors have the discretion to decide if the

absence due to a common illness is excused. If a student wishes to appeal the instructor's decision, the student may do so by contacting the instructor's Department Chair or Program Director, who will consult with the appropriate Assistant or Associate Dean of the instructor's college, before deciding the outcome of the appeal.

If in the judgment of the Student Health Center staff, the student will be out of class due to a serious illness or medical condition, as opposed to a common illness, the Student Health Center staff will contact the appropriate Assistant or Associate Dean, who will then contact the instructor. The Student Health Center communication to the Assistant or Associate Dean will serve as the documentation needed by the Dean (see below). If the student is seeing an off-campus health care provider, the student will provide the documentation from that provider to the appropriate Assistant or Associate Dean, who will then contact the faculty member.

Examples of serious illnesses may include (but are not limited to):

- Mononucleosis, which may require bed rest and/or removal from campus
- Hospitalization and/or surgery
- Highly contagious diseases (e.g., chicken pox, measles)

Mental Health Concerns. The University Counseling Center will use clinical judgment as to whether there is a legitimate need for the student to miss class for reasons related to mental health. If in the judgment of the University Counseling Center staff, the student should be out of class due to a mental health condition, the Counseling Center staff will request a written release of information from the student. With a signed release, the Counseling Center staff may then contact the faculty member or the appropriate Assistant or Associate Dean, who may contact faculty accordingly. The University Counseling Center will not typically validate the legitimacy of a student having missed classes for mental health reasons retroactively before the student has been to the Counseling Center. The fact that a student is in treatment at the Counseling Center or with an off campus mental health provider will not, in itself, justify the student missing classes. The recommendation for missing classes will occur only when the mental condition necessitates it. If the student is

seeing an off-campus mental health care provider, the student will provide the documentation from that provider to the appropriate Assistant or Associate Dean, who will then contact the faculty member.

If the duration of the absence due to serious medical illness or mental health concern undermines the student's ability to complete the academic work required, the appropriate Assistant or Associate Dean will encourage the student to pursue a Medical Leave of Absence – see policy on *Medical Leaves of Absence*.

Documenting Disabilities. Students who are registered with Learning Support Services (LSS) or the Office of Disability Services (ODS) must provide accommodation letters from those offices to their instructors (in advance of absences) in order for subsequent disability-related absences to be considered excused. Students who are newly struggling should be encouraged to register with the appropriate office for any future concerns. Accommodations are not typically retroactive.

Students with learning disabilities, other neurologically-based disorders, and those disabled by chronic illnesses are encouraged to contact **Learning Support Services** (LSS). Students with physical disabilities, including but not limited to visual impairments, hearing loss, and mobility limitations, are encouraged to contact the Office of Disability Services (ODS). Depending on the type of disability, there are different processes for disclosing and documenting the disability with the University.

- For students with learning disabilities, neurologically-based disorders, and disability due to chronic illness, these guidelines, as well as certification forms for certain specific disabilities, please refer to the **University Policy for Students with Disabilities**.
- Students with physical disabilities can refer to these guidelines.

Personal Days

In addition to the attendance policy stated above, students are entitled to a predetermined number of excused absences to support their personal wellness. Students are entitled to two "Personal

Days” for 50-minute classes meeting three times per week, and one “Personal Day” for classes meeting two times per week for 75 minutes.

Students must advise the instructor by email before class of their intent to utilize a Personal Day as the reason for their absence. A Personal Day will not be approved retroactively. Students may, but are not required, to provide additional information regarding their absence. Additionally, Personal Days may not:

- be used on consecutive class days;
- be used in the same week;
- be used immediately preceding or following a University holiday or break period;
- be used on days when exams, presentations or other major assignments are scheduled.

A Personal Day does not grant an automatic extension for items due. Students remain responsible for all assignments, exams, presentations, etc. due on that date. It is in the instructor’s discretion to determine whether any extension is appropriate given individual circumstances.

Personal Days may not be used for the following: Labs, Clinicals, Internships, Courses that meet one time per week, Fast Forward courses and professional education courses/programs offered by the College of Professional Studies, Summer Sessions, or graduate/law courses. The suggested syllabus language regarding Personal Days is included at the conclusion of this policy.

Provost September 17, 2016; Technical correction March 1, 2017; February 28, 2019; Approved by Board of Assistant and Associate Deans February 4, 2019; Updated with Personal Days September 27, 2023, upon the recommendation of the Academic Policy Committee with the approval of the Council of Deans, the Provost, and President.

1. Proposed language for syllabus - 50-minute classes meeting three times per week:

In addition to the attendance policy stated above, students are entitled to two excused absences for any reason that may contribute to their personal wellness. Students must advise the instructor by email before class of their intent to utilize a Personal Day as the reason for their absence. A

Personal Day will not be approved retroactively. Students may, but are not required, to provide additional information regarding their absence. Additionally, Personal Days may not:

- be used on consecutive class days;
- be used in the same week;
- be used immediately preceding or following a University holiday or break period;
- be used on days when exams, presentations or other major assignments are scheduled.

A Personal Day does not grant an automatic extension for items due. Students remain responsible for all assignments, exams, presentations, etc. due on that date. It is in the instructor’s discretion to determine whether any extension is appropriate given individual circumstances.

2. Proposed language for syllabus - 75-minute classes meeting two times per week

In addition to the attendance policy stated above, students are entitled to one excused absence for any reason that may contribute to their personal wellness. Students must advise the instructor by email before class of their intent to utilize a Personal Day as the reason for their absence. A Personal Day will not be approved retroactively. Students may, but are not required, to provide additional information regarding their absence. Additionally, a Personal Day may not:

- be used immediately preceding or following a University holiday or break period;
- be used on days when exams, presentations or other major assignments are scheduled.

A Personal Day does not grant an automatic extension for items due. Students remain responsible for all assignments, exams, presentations, etc. due on that date. It is in the instructor’s discretion to determine whether any extension is appropriate given individual circumstances.

3. Personal Days may not be used for the following: Labs, Clinicals, Internships, Courses that meet one time per week, Fast Forward courses and professional education courses/programs offered by the College of Professional Studies, Summer Sessions, or

graduate/law courses. The suggested syllabus language regarding Personal Days is included at the conclusion of this policy.

Class Status

Class status is determined by number of credits earned as follows:

First-Year:	0-29 credits
Sophomore:	30-59 credits
Junior:	60-89 credits
Senior:	90+ credits

Please Note: Regardless of the number of credits earned, students are required to follow the curriculum in place at the time in which they enrolled. This is often referred to as “catalog year.” The catalog year for transfer students is determined by VSB at the time of the transfer.

Credit by Exam

To encourage independent study and recognize personal knowledge and mastery of subject matter, Villanova University provides qualified matriculated students with the opportunity to “test out” of certain courses. The student who successfully passes such an examination satisfies the requirements of and earns the credit for the respective course. For more information, [see the webpage located here](#).

Limitations

Participation in the program is not automatically given, and is contingent upon the following limitations:

1. The student must be matriculated, and offer evidence of sufficient background to the department offering the exam to have a reasonable command of the subject matter;
2. If the student has previously taken the exam to waive course requirements, the student may not take an exam for credit in the same course;
3. A student cannot use this program to pass a course for which the student has failed, either at Villanova or any institution;
4. A student on probation, or who is suspended, may not take an exam for credit;

Conditions

The granting of credit is contingent upon the following conditions:

1. A student may not challenge a language requirement in their primary language. Once a sequence of language has begun, a student may not revert to a lower-level course.
2. A fee of \$125 per credit hour will be levied
3. Credit granted will not exceed that assigned to the course as listed in the University Catalog
4. The maximum credit allowed the student through this program is 30 hours
5. Credit for no more than three courses may be applied to a student's major
6. A passing grade of “CE” will appear on the student's transcript; a failing grade will not be recorded
7. The test dates, determined by the Director of Student Services, will take place shortly after the mid-semester break and before the pre-registration period in the Fall and Spring. The exam is also given in July.

Procedure

1. The application process is the responsibility of the student and must be completed one month before the date of the exam. The student begins the application process with the director who will provide them with the appropriate forms and directions for completion.
2. The form is then taken to the Bursar's Office for validation once the appropriate fee is paid. A “no show” student forfeits all fees.
3. During the week prior to the exam, the department will provide the director with a copy of the exam for each candidate. This will be in a sealed envelope properly identified with the student's name, Banner ID, department, and exam title on its front.
4. Notification of students of time and place of the exam, and other arrangements, are the responsibility of the Director.
5. Students who fail the exam have the right to review it with the faculty in question. Exams are destroyed in the semester in which they are administered.
6. The Director will notify the students and the Registrar's Office of the exam results.

College Level Examination Program

VSB does not award credit for College Level Examination Program (CLEP) exams.

Course Load

A student must take a minimum of 12 credits a semester to be a full-time student. The normal load for a VSB student is 15-16 credits per semester except in the fall of first-year when students are required to take VSB 1000 (1 cr.). A 3.0 GPA is the minimum necessary for a student to be granted an overload (more than 17 credits) with the exception of seniors who may have a 2.5 minimum GPA. All students may not register for more than 19 credits. In addition, **VSB students may not take Fast Forward (FF) classes during the academic year.**

Any student with less than 12 credit hours in a semester is not considered a full-time student. Financial aid may be affected. In addition, any student with less than 12 credits will not be eligible for Dean's List (*see the [Dean's List](#) section for the additional info*). All students who plan to take less than 12 credits must receive approval from The Clay Center at VSB.

Note: a standard semester tuition rate will be charged to all undergraduate students taking 9 credits or more in a given semester.

Dean's List

A full-time VSB student (earned 12 credits or more) achieves the Dean's List by earning a 3.50 grade point average for the semester with no non-passing or missing grades. The semester GPA must be based on a minimum of 12 credits of earned letter grades (not Satisfactory/Unsatisfactory grades). Students will receive a congratulatory letter from the Dean.

Degree Audit (Degree Works)

Degree Works (DW) is a web based degree auditing tool available to all VSB students via their myNOVA portal. It offers the ability to track a student's academic progress toward the

completion of his/her degree. When a DW audit is run, it automatically takes a student's current academic information and compares it to the requirements for the student's degree, and outlines the remaining required courses. There is a "What-If" function in DW that can check a student's academic record against the requirements for a new major and indicate the remaining required courses.

Disclosure of Student Records

Villanova University, in accordance with the Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, has adopted this Student Records Policy to address the following issues with respect to education records: (1) disclosure of directory information; (2) confidentiality of personally identifiable information; and (3) student rights to inspect, review and seek amendment of their records. In general, education records are defined as records maintained in any form by the University that are directly related to a student.

I. Disclosure of Directory Information

Information concerning the following items about individual students is designated by the University as directory information and may be released or published without the student's consent: full name; student identification number; address (local, home or electronic mail); telephone number; photograph or video; date and place of birth; major field of study; grade level; enrollment status (e.g., undergraduate or graduate, full-time or part-time); dates of attendance; degrees, honors and awards received (including Dean's List); most recent previous educational institution attended; participation in officially recognized University activities and athletics; and weight and height of members of athletic teams. Students who do not wish directory information to be released or made public must inform in writing the Office of the Registrar.

II. Confidentiality of Personally Identifiable Information

All personally identifiable information contained in student records other than directory information is considered confidential information. This information includes, but is not

necessarily limited to: academic evaluations; general counseling and advising records; disciplinary records; financial aid records; letters of recommendation; medical or health records; clinical counseling and psychiatric records; transcripts, test scores, and other academic records; and cooperative work records.

“Personally identifiable information” means that the information includes: (a) the name of the student; (b) the address of the student; (c) a personal identifier such as social security number; or (d) a list of personal characteristics or other information that would make the student’s identity easily traceable.

The University will generally not disclose personally identifiable information to third parties without the written consent of the student. The signed and dated consent should specify the records to be disclosed, the purpose of the disclosure, and to whom the records are to be disclosed. However, personally identifiable information may be disclosed, without the student’s consent, to the following individuals or institutions, in accordance with FERPA, including in the following circumstances:

- To University officials (or office personnel ancillary to the officials) who require access for legitimate educational purposes such as academic, disciplinary, health or safety matters. University officials may include, without limitation, the Board of Trustees, the President, Vice Presidents, Deans, Directors, Department Chairs, Faculty Members, ROTC Commanding Officers, attorneys in the Office of the Vice President and General Counsel, Judicial Officers, Counselors, Resident Advisers, Coaches and Admissions Officers. University officials also include contractors, consultants, volunteers and other outside parties, such as an attorney or auditor providing services on behalf of the University for which the University would otherwise use employees.
- To the party(ies) who provided or created the record(s) containing the personally identifiable information.
- To officials of other educational institutions to which the student seeks or intends to enroll or where the student is already enrolled, for purposes related to the student’s enrollment or transfer (on condition that the student upon request is entitled to a copy of such records).

- To appropriate federal, state or local officials or authorities, consistent with federal regulations.
- To the U.S. Attorney General (or designee) pursuant to an ex parte order under the U.S. Patriot Act in connection with certain investigations or prosecutions.
- To organizations conducting studies for, or on behalf of, educational agencies or institutions.
- To accrediting organizations to carry out their accrediting functions.
- To parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1986.
- To parents of a student under the age of 21, where the information pertains to violations of any federal, state or local law or of any University rule or policy governing the use or possession of alcohol or a controlled substance, and the student has committed a disciplinary violation.
- In connection with the student’s application for, or receipt of financial aid.
- To comply with a judicial order or lawfully issued subpoena (on condition that a reasonable effort is made to notify the student of the order or subpoena, if legally permitted to do so).
- In case of an emergency, to appropriate parties, including parents, to protect the health or safety of the student or other individuals, where the University determines that there is an articulable and significant threat to the student or other individuals.
- The disclosure of information concerning registered sex offenders provided under state sex offender registration and campus community notification programs.
- The outcome of a disciplinary proceeding to a victim of or alleged perpetrator of a crime of violence or non-forcible sex offense.
- The outcome of a disciplinary proceeding where a student is an alleged perpetrator of a crime of violence or non-forcible sex offense and is determined to have violated the University’s rules or policies.

If required under FERPA, the University will inform a party to whom a disclosure of personally identifiable information is made that it is made only on the condition that such party will not disclose the information to any other party without the prior written consent of the student.

III. Non-Education Records

The following are not considered education records, and thus are not protected by FERPA and this policy:

- Employment records of students as University employees.
- Campus law enforcement records created and maintained by the Public Safety Office, in accordance with the requirements of FERPA.
- Records that are made or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional capacity or assisting in his or her paraprofessional capacity, and that are made, maintained, or used only in connection with treatment of the student and are disclosed only to individuals providing the treatment. These records may be reviewed, however, by a physician or other appropriate professional of the student's choice.
- Records of instructional, supervisory, and administrative personnel and educational personnel ancillary to those persons, that are in the sole possession of the maker of the record and are not accessible or revealed to any other individual except a temporary substitute for the maker.
- Records that only contain information about a person after that person was no longer a student at the University and that are not directly related to the individual's attendance as a student (e.g., information collected by the University pertaining to accomplishments of its alumni).
- Grades on peer graded papers before they are collected and recorded by a faculty member.

IV. Inspection and Review Rights; Right to a Hearing

A currently or previously enrolled student has the right to inspect and review his or her educational records. This right does not extend to applicants, those denied admission, or those admitted who do not enroll. Offices may require that requests for access be submitted in writing, and may ask for, but not require, the reason for the request. The University will comply with requests to inspect and review a student's records that it has

determined to honor within a reasonable period of time, but in no case more than forty-five days after the request was made.

Records to which students are not entitled to access include:

- Confidential letters and statements of recommendation placed in a student's record before January 1, 1975, or confidential letters and statements of recommendation to which students have waived their rights of access.*
- Financial records of the parents of the student or any information contained in those records.
- Those portions of a student's records that contain information on other students.
- Those records listed in Section III above.

A student who believes that any information contained in his or her educational records is inaccurate or misleading, or otherwise in violation of his or her privacy rights, may request that the University amend the records. The student should first discuss his or her concerns with the individual responsible for the office where the records are maintained. If the student is not satisfied with the resolution, the student should contact the individual to whom that person reports. If still not satisfied, the student may contact the appropriate vice president or designee. The final level of appeal is a formal hearing. To obtain a hearing, the student should file a written request with the Vice President for Student Life. The hearing will be conducted in accordance with the requirements of FERPA.

The substantive judgment of a faculty member about a student's work (grades or other evaluations of work assigned) is not within the scope of a FERPA hearing. A student may challenge the factual and objective elements of the content of student records, but not the qualitative and subjective elements of grading.

If as a result of a hearing the University determines that a student's challenge is without merit, the student will have the right, and will be so informed, to place in his or her records a statement setting forth any reasons for disagreeing with the University's decision.

Students have a right to file complaints concerning alleged failures by the University to comply with the requirements of FERPA and the implementing regulations.

*Students may be invited but not required to waive their right of access to confidential letters of recommendation for admission, honors or awards, or employment. Failure to execute a waiver will not affect a student's admission, receipt of financial aid, or other University services. If a student signs a waiver, he/she may request a list of all persons making confidential recommendations.

Complaints should be addressed to the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, S.W., Washington DC 20202-5901. Students are encouraged to bring any complaints regarding the implementation of this policy to the attention of the Vice President and General Counsel.

Double Majors (Across Colleges)

Any VSB student wishing to also major in a non VSB discipline should contact the Dean of the respective college for detailed information regarding application process, program requirements, etc.

VSB students may major in Liberal Arts and Sciences disciplines by completing the requirements for that major without satisfying the Arts and Sciences core curriculum requirements. Students are encouraged to meet with the department chair of the respective major for detailed information regarding application process, program requirements, etc. All students must submit an on-line [Change of Major/Minor Form](#) available at the VSB Undergraduate Forms page in myNOVA.

Double Majors (Within VSB)

VSB students have an opportunity to major in more than one discipline. More than one major may be declared during initial major selection. Students may change/add a major or minor by submitting an on-line [Change of Major/Minor Form](#) available at the VSB Undergraduate Forms

page in myNOVA. All VSB students are required to officially declare their VSB majors, co-majors, minors, and concentrations by the end of the fall semester in their senior year.

Generally, courses may not be able to satisfy multiple degree requirements within VSB. The only exception is sharing courses between a major and co-major. Please refer to the co-major sections for the sharing details.

Except for co-majors, each VSB major requires six (6) unique major courses to fulfill the major requirements. A major GPA of 2.00 is required.

Dual Enrollment - Pre-Matriculated Courses

College-level work completed prior to high school graduation, including college courses that fulfill high school graduation requirements, must meet the following criteria to be considered for transfer credit:

1. The course must be taught by a member of a college or university faculty for college students and enroll college students
2. If the course is taught on a high school campus, by high school faculty members, and the enrolled students are only high school students, then the course is not eligible for transfer credit

If the above criteria are met, the student must send the following supporting documents to VSB Academic Advisor:

- An official letter from the high school principal, secondary school counselor or other educational professional describing the college-level program of study
- An official letter from the college/university stating that the courses were taught by members of the regular faculty, open to enrollment by and graded in competition with regularly matriculated undergraduates at the college and a regular part of the normal curriculum published in the college catalog
- A course syllabus

- An official, seal-bearing transcript from the college/university showing a grade of C or better
- With respect to courses taught in a distance learning format, and for other requirements, each academic program will review on a case -by-case basis

All pre-matriculated credit must be accepted and approved before the completion of two semesters at Villanova. No business courses will be awarded transfer credits. All pre-matriculated credits are considered as transfer credits. The University will allow for a maximum transfer credit value of 60 credits, including any exam credit (AP/IB, etc.). Transfer credit for individual cases may vary; however, the total number of credits may not exceed 60.

If the courses taken by high school students do not meet the above criteria, the student may decide to pursue a [Challenge Exam](#) after enrollment at Villanova.

Final Examinations and Final Week of Classes

Faculty members recognize their obligation to provide timely interim and final assessments of student performance in their classes. This may be done in a variety of ways, to be determined by each instructor. The assessment methodology should be spelled out clearly in the syllabus, with an explanation of the relative weight each item will contribute to the final grade.

The Registrar schedules a time for a final examination for each course. These times are available on the Registrar's website early in the semester, so students should have adequate time to make travel plans. It is permissible to omit the final examination, provided that other equivalently comprehensive assessment techniques are employed. If final examinations are given, they must be given at the time and place scheduled by the Registrar unless exemption has been authorized by the chair and dean.

In order to balance student workload during the final week of classes, the following describes

prohibited times for administering examinations or other assessment instruments in undergraduate courses only.

Reading days: No exams or assessment instruments whatsoever may be administered, and no papers or other assignments may be due, on designated reading days.

Final day of class: With the exception of oral presentations or laboratory assessments, no exams or other student performance assessment instruments whatsoever may be administered, and no papers or other assignments may be due, on the final day of class. Faculty may administer the Course and Teacher Survey.

Other days of the final week of classes: No final examinations may be administered, and no take-home exams may be due, during the final week of classes. Other major examinations and tests may be administered only with the explicit written consent of the dean of the college (quizzes and minor assignments are permitted). No paper or other assignment may be due on other days of the final week of classes unless clearly scheduled for that week in the course syllabus that is distributed at the outset of the course.

The below section refers to both graduate and undergraduate courses:

*Tests or student learning assessment mechanisms are to be employed periodically. In the interest of fairness, faculty members should take steps to avoid situations where some students have access to previous examinations while others do not. This can be done in several ways: faculty members may collect examination papers from students so that these cannot be circulated in later semesters, or faculty members may make previous examinations available to students either electronically or by other means. Copies of semester examinations are to be filed with the chair of the department and/or the dean of the college.

*Occasionally students will encounter conflicts in the examination schedule such that two of a student's examinations are scheduled at the same time or three examinations are scheduled on the same day. In the event of such a conflict, the student must notify the instructor at least seven days in advance of the scheduled exam. The instructor will make alternative arrangements for the student to complete the examination. In

resolving conflicts, multiple section exams should take precedence over exams for a single section, and courses in the major should take precedence over non-major courses. Extraordinary difficulties encountered in effecting such an arrangement will be resolved by the dean of the student's college.

*If a student is absent from a final examination for any reason other than a conflict, he or she must contact the instructor within 24 hours of the scheduled beginning of the examination to request permission from the instructor to take a make-up examination. The instructor may, if he or she wishes, arrange a make-up examination at a mutually convenient time. If the faculty member has reservations about the legitimacy of the student's reasons for missing the examination, the faculty member may refer the student to the office of the college dean, who will evaluate the student's request for a make-up. If the office of the dean approves the request, the faculty member will arrange a make-up examination for the student or assign other work in place of the final examination. If the student does not contact the faculty member within 24 hours, the student must receive permission from both the office of the dean and the faculty member before being allowed to take a make-up examination.

*Faculty members should attend the administration of the final examination in order to answer any questions and ensure high standards of academic integrity. When they are unable to do so, department chairs are to see that sufficient proctors are provided for each examination room. Where there is a shortage in any department, assistance should be requested from other departments.

*Faculty members must retain in their possession all final exams and other unclaimed exams, papers, and student course projects and materials for a period of twelve months following the end of the semester in which they were used to establish grades.

Grade Point Average

In addition to passing all required courses, a cumulative grade point average (GPA) of at least 2.0, a technical grade point average (TGPA) of at least 2.0, and a major grade point average (GPA) of at least 2.0 are necessary for graduation. Grades for all courses taken at Villanova

University (except S/U grades and WXs) are calculated in the GPA. If a course is repeated, both grades are included in the computation. If a transfer course is accepted to fulfill a requirement for a failed Villanova University course, the failed Villanova course is still included in the GPA computation. The grade point average is determined by taking the number of credits for each course times the quality points earned, and dividing the total quality points by the total credit hours attempted.

Grade Reports

At mid-semester and at the end of the semester, grade reports are available on-line through myNOVA.

The grade report at the end of the semester is part of the student's permanent record. A student must report any inaccuracy to the Registrar according to the following deadlines; otherwise, the record will stand as it is.

Fall Semester grade errors:	Last Friday in January
Spring Semester grade errors:	Last Friday in June
Summer Semester grade errors:	Last Friday in August

Grading System & GPA

Grade Definitions

		Value Per Credit	Quality Points (3 cr. course)	Quality Points (4 cr. course)
A	Excellent	4.00	12.00	16.00
A-		3.67	11.01	14.68
B+		3.33	9.99	13.32
B	Good	3.00	9.00	12.00
B-		2.67	8.01	10.68
C+		2.33	6.99	9.32
C	Fair	2.00	6.00	8.00
C-		1.67	5.01	6.68
D+		1.33	3.99	5.32
D	Passing	1.00	3.00	4.00
D-		0.67	2.01	2.68
F	Failure	0.00	0.00	0.00
AP	Advanced Placement			
AU	Audit			
CE	Credit by Examination			
N	Incomplete			
NG	No Grade Reported			
NF	Unchanged Incomplete			
S	Satisfactory: Satisfactory/ Unsatisfactory Courses			

SP	Satisfactory Progress (Mid-Semester Grade Only)
T	Transfer Credits
U	Unsatisfactory: Satisfactory/Unsatisfactory Courses
W	Approved Withdrawal With Academic Penalty
WX	Approved Withdrawal Without Academic Penalty
Y	Unofficial Withdrawal from Course (or for first-year students, failure for excessive absences)

All grades are permanent, except **N** and **NG**, which are temporary grades. An **“N”** is used to indicate that the student’s work in a course has not been completed. An **“NG”** indicates that a faculty member has not submitted a grade. If a change is not reported, the **N** or **NG** grade automatically becomes an **NF** (Failure). Refer to the [Incomplete Grades](#) section for more details.

The grade **WX** indicates an authorized withdrawal; the grade is not included in the calculation of the grade point average. The last day for Authorized Withdrawal without Academic Penalty (**WX** grade) is published on the official university calendar. A signature from The Clay Center at VSB is needed to have a WX Form processed. See the [Withdrawal from a Course](#) section for more information.

Withdrawal after the official deadline is indicated by a **W** grade, withdrawal with academic penalty. The grade is calculated as an **F** in determining the grade point average.

The grade **Y** is given when a student unofficially withdraws from a course (usually stops attending class). It is reflected in the grade point average (GPA) as an **F**.

If a course is repeated, the grades in both courses will be included in the cumulative GPA calculation. However, total earned credit hours will reflect the credits for one course only. Both courses and both grades will be listed on the transcript in the actual semester taken.

Grade distributions are determined by individual faculty members.

For more information, please refer to the [Grades & Assessments](#) section of Villanova Catalog.

Graduation Honors

Graduation Honors are listed on diplomas as follows:

- Summa Cum Laude (minimum 3.90 Cumulative GPA)
- Magna Cum Laude (minimum 3.75 Cumulative GPA)
- Cum Laude (minimum 3.50 Cumulative GPA)

To be eligible for these honors, students must have earned at least 60 credits of course work at Villanova University and these courses must be taken for letter grades (no Satisfactory/Unsatisfactory courses). Honors are determined from final grades and are based on the exact GPA (GPAs are not rounded).

Graduation Policy for Undergraduates

1. PURPOSE

This policy is enacted to document the process of awarding degrees upon completion of all requirements.

2. SCOPE

This policy applies to all Villanova University undergraduate students.

3. DEFINITIONS

A **Degree Program** is defined as an approved academic program of study, outlined in the Villanova University Undergraduate Catalog, that contains a degree and, in the case of an undergraduate, at least one major, and leads to an official diploma and notation of such on the university’s official transcript.

A **2nd Degree** is an officially declared program of undergraduate study in addition to the primary degree program. The second degree will be awarded only if a student has completed 43 or more additional credits beyond the greater of the two program requirements and all other degree requirements as specified by the college.

A **major** is an area of specialized study that dictates the structure and requirements of the degree. Students may pursue 2 or more majors; however, the degree is awarded upon successful

completion of one major as well as the successful completion of other minimum degree requirements as outlined in the undergraduate catalog.

A **Certificate** is an academic award that can be obtained at the undergraduate level. Certificates are focused, structured, and interrelated sets of courses that enhance a student's experience in an academic area, address a professional development need, or provide preparation for specific degree programs. Certificates can be earned independently or in conjunction with a degree program.

The college offering the degree or certificate program bears the responsibility for authenticating completed program requirements. Changes or exceptions in course requirements for individual students must be documented in the academic record of the student.

4. POLICY STATEMENT

Students are required to graduate at the end of the term in which all degree requirements are completed. Undergraduate students must meet the graduation requirements which are stated in the University Undergraduate Catalog associated with their entry year.

The deans shall send to the Registrar a list of all students in their college or school who have satisfactorily completed all their degree requirements by the official date of graduation. The Registrar shall issue diplomas only to those students whose names appear on the list. The current graduation dates are May 31st, September 1st, and December 31st. The graduation date appears on a student's diploma and transcript.

Incomplete minor, concentration, or additional majors do not prevent degree awarding. If a student wishes to continue to pursue an additional major, minor, or concentration post-graduation, a statement of intent must be submitted to the student's college prior to the official census date in the semester in which the student will meet all requirements to graduate. The college should notify the Registrar's Office of students that are continuing post-graduation to complete secondary major/minor/concentration requirements. A major, minor, or concentration completed after the degree is awarded will be added to the transcript with a notation indicating

when it was completed. The GPA will not be recalculated for honors purposes. These additional programs must be completed within one academic year after degree completion.

After a student has graduated, undeclared additional majors/minors/concentrations will not be added to a student's record retroactively unless documented university error is discovered.

5. PROCEDURE

The Registrar's Office requires students to complete a Prospective Graduate Form; however, because students are required to graduate at the end of the term in which all degree requirements are complete, the university reserves the right to graduate a student without a graduation application on file.

Exceptions or waivers for specific courses required for degree completion may occur as determined by the college. These exceptions must be documented in the student's file. Students have advisors available who assist in planning and implementing their plan of studies; however, it is ultimately each student's responsibility to know and fulfill the requirements for graduation specified in the approved University Catalog for their academic program.

Students who intend to pursue a second undergraduate degree must inform their advisor and meet with the appropriate assistant or associate dean of their college. If approved, a degree plan must be provided by the college to the Office of the Registrar. This plan will be used to verify that at least 43 additional credits were taken by the student to complete the second undergraduate degree.

Colleges verify degrees/certificates and must submit a list of those graduating to the Office of the Registrar by the deadline set by the Office of the Registrar each semester.

The Office of the Registrar posts the degrees/certificates of students who appear on the graduation list within two weeks of receipt of the list. Students are notified by email when degrees are posted.

The Office of the Registrar orders diplomas for these students after the graduation list is

submitted. Diplomas are only issued for awarded degrees. Certificates are issued by the college in which the program is offered.

Diplomas are mailed 4-6 weeks after the awarding process. Students are notified by email when diplomas have been shipped. Certified Electronic Diplomas (CeDiplomas) become available as soon as diplomas have shipped. CeDiplomas are only available for conferral dates beginning May 2020.

Guidance for Academic Advisors

Advisors may consider different options for students as described below.

- Advise students at the beginning of their final semester that if they wish to complete an additional major or a minor or concentration after they graduate, then they must declare that major or minor or concentration prior to the census date of their final semester. Their graduation semester will still be the term in which they completed their primary degree requirements. The college should notify the Registrar's Office of students that are continuing post-graduation to complete an additional major or a minor or a concentration. A major or minor or concentration completed after the degree is awarded will be added to the transcript with a notation indicating when it was completed. The GPA will not be recalculated for honors purposes. These additional programs must be completed within one academic year after degree completion. If students are undecided at the census date in their final semester – for whatever reasons – they should still plan to return. Please direct students to the Bursar's tuition and fees webpage for the undergraduate rates if the student will be enrolled in less than nine credits. Students receiving financial assistance should speak with the Office of Financial Assistance regarding future aid eligibility. If they decide towards the end of their final semester to not return for an additional semester to complete the additional major or minor or concentration, then the college will need to notify the Registrar that the student is no longer pursuing the additional major or minor or concentration, so to have an accurate student record on file.

- Advise students to graduate on-time, and rather than complete additional majors or minors or concentrations, apply to a graduate program. If accepted, they enroll in that graduate program. If they decide to not complete the graduate program, they may have enough courses to receive a graduate certificate or may need to take only one or two courses to complete such a certificate. This may be a credential more meaningful than another undergraduate major or minor or concentration. Graduate students are considered full time for loan deferment purposes if taking six credits in a full term. Students receiving veteran's benefits must check with the School Certifying Official for rules regarding enrollment status and benefits.
- Advise students to graduate on-time, and if they do not qualify for admission to a graduate program, or do not want to enroll in graduate programs, they may pursue a second undergraduate degree, including the Bachelor of Interdisciplinary Studies offered by the College of Professional Studies. Another option is to enroll in one of the College of Professional Studies' credit-bearing Certificates. These certificates range from twelve to thirty credits. Finally, students may enroll in Post-Baccalaureate Individual Courses in the College of Professional Studies. Tuition is set at the College of Professional Studies rate listed on the Bursar's website.
- Advise students who do not want to graduate early, to develop an "academic plan" with their advisor that has them complete degree requirements after four years or eight semesters of study. The academic plan will allow the student to complete degree requirements in the final semester when they also are completing their secondary major or minor or concentration. There are many reasons that students can graduate in less than four years including AP credits, summer school enrollment, and overloads.

6. RELATED INFORMATION/FORMS

[Prospective Graduate Form](#)

[Change of Major Form](#)

7. HISTORY

Academic Policy Committee Reviewed May 1, 2022

Council of Deans Approved August 24, 2023

Provost Approved August 24, 2023

President Approved November 8, 2023

Technical Revision Approved by Provost and Council of Deans May 22, 2024

Effective Date June 1, 2024

8. RESPONSIBLE UNIVERSITY DIVISION/ DEPARTMENT

Office of the Provost

Enrollment Management

9. RESPONSIBLE ADMINISTRATIVE OVERSIGHT

The Office of the Registrar

Graduation Requirements

The Dean determines a student's eligibility for graduation. However, it is the student's responsibility to meet the degree requirements as determined for the class in which they would normally graduate. All VSB students are required to officially declare their VSB majors, co-majors, minors, and concentrations by the end of the fall semester in their senior year. *Any students who plan to graduate ahead must notify their advisor and fill out the appropriate form: [VSB Intent to Graduate Early or Late Form](#).*

The official graduation dates are:

- September 1
- December 31
- May 31

To receive a Bachelor's degree, VSB students must satisfy the following requirements:

- Completion of all Liberal Arts & Sciences core curriculum, business core curriculum, course requirements for at least one VSB major, non-business elective, and free elective requirements with a minimum

cumulative GPA of 2.00, a minimum cumulative technical GPA (TGPA) of 2.00, and a minimum cumulative major GPA of 2.00. The total credit hours required to graduate is 125.

- **Once degree requirements are fulfilled as outlined above, the degree is conferred and the student graduates.**
- Students transferring into VSB from another university must attain a 2.0 or higher cumulative GPA, technical GPA, and major GPA for all work attempted at Villanova University. **No more than 22 transfer credits will apply to satisfy business core classes.** Degree requirements for transfer students are determined at time of transfer.
- The final 30 credit hours of a student's academic program must be completed at Villanova (residency requirement). With permission of the Associate Dean, a student may study abroad during the first semester of senior year.

Note: Each year there are a small number of students who have not fulfilled all of the requirements for May graduation but who wish to participate in commencement exercises with their entering class. Students who have only three or fewer courses remaining to fulfill the requirements for graduation, or who can complete the degree requirements before the beginning of the next fall semester, may petition to participate in the graduation ceremony. However, the names of all such students throughout the University will not be included in the commencement program until the following May, after they have in fact been graduated. Students may participate in only one commencement ceremony.

Honors and Awards

Beta Gamma Sigma

Awards for distinguished scholarship in VSB are made annually at the Beta Gamma Sigma dinner when the top 10% of the senior class is honored. Beta Gamma Sigma is the national scholastic honor society in the field of business administration. Villanova's chapter is one of 157 from among 700 institutions offering undergraduate degrees in business.

Beta Alpha Psi

Beta Alpha Psi is a national scholastic and professional fraternity for Financial Information students and professionals. Membership in Beta Alpha Psi includes those persons of good moral character who have achieved scholastic excellence in the fields of accounting, finance, or information systems, have been initiated by an existing chapter and remain in good standing.

Dean's List

A full-time VSB student (earned 12 credits or more) achieves the Dean's List by earning a 3.50 grade point average for the semester with no non-passing or missing grades. The semester GPA must be based on a minimum of 12 credits of earned letter grades (not Satisfactory/Unsatisfactory grades). Students will receive a congratulatory letter from the Dean.

Graduation Honors

Graduation Honors are listed on diplomas as follows:

- Summa Cum Laude (minimum 3.90 Cumulative GPA)
- Magna Cum Laude (minimum 3.75 Cumulative GPA)
- Cum Laude (minimum 3.50 Cumulative GPA)

To be eligible for these honors, students must have earned at least 60 credits of course work at Villanova University and these courses must be taken for letter grades (no Satisfactory/Unsatisfactory courses). Honors are determined from final grades and are based on the exact GPA (GPAs are not rounded).

Medallion of Excellence

VSB's medallion winners for distinguished scholarship and service are nominated by the academic areas and are awarded in the spring semester each year.

Other awards by professional organizations and departments are distributed on a regular basis at appropriate times.

Honors Program

The Honors Program at Villanova brings together students with strong academic records and dedicated faculty members in challenging seminars that promote diversity and depth of learning.

For information regarding to the business honors degree, please refer to the [Baccalaureate Degree Requirements](#) section for the detailed information.

Incomplete Grades

Requests for incompletes are reviewed for extenuating circumstances only (illness, family emergencies, etc.). The **VSB Incomplete Grade Request Form** must be completed and submitted no later than the last day of final exams. Students who request an "N" grade should:

1. Have completed the majority of their work (e.g., at least 85% of work is complete).
2. Discuss with the instructor to finalize a mutually agreed timeline (*see the detailed deadline listed below*) and remaining coursework to complete the course.
3. Submit an Incomplete Grade Request Form.

All grades are permanent, except **N** and **NG**, which are temporary grades used to indicate that the student's work in a course has not been completed. An **N** or **NG** grade must be replaced by the instructor with a permanent grade (A, B..., F, etc.) according to the following schedule:

- For the fall semester: Students must submit all work to the instructor by the last Friday in January; grade changes must be submitted to the Registrar's Office by the second Friday in February.
- For the spring semester: Students must submit all work to the instructor by the last Friday in June; grade changes must be submitted to the Registrar's Office by the second Friday in July.
- For the summer semester: Grade changes for **N** grades issued during the summer sessions must be submitted by the instructor to the Registrar's Office no later than 30 days from the session end date. Therefore, students must submit all work in time to allow the instructor to meet the appropriate deadline.
- Students should check the academic calendar for actual dates. If a change is not reported, the **N** or **NG** grade automatically

becomes an **NF**. An **NF** grade is calculated as an **F** in determining the grade point average. Furthermore, any discrepancy in an incomplete grade must be resolved within the immediate following semester. Grade challenging beyond the semester immediately following will not be reviewed.

- Graduating students must submit all coursework to the instructor(s) by September 1 to be eligible for a September diploma, December 31 to be eligible for a December diploma and May 31 to be eligible for a May diploma.
- Without the approval of the instructor, the department chair, and the Dean, no grade higher than **C** may replace the **N**.

For more information, please refer to the [Grades & Assessments](#) section of Villanova Catalog.

Independent Study

An independent study gives a student an opportunity to thoroughly examine a particular business-related topic of interest. To be eligible for an independent study, a student must have junior standing and have completed the core course(s) in the discipline of the independent study. A proposal must be submitted by the student and approved by the sponsoring faculty member, the Chair of the appropriate Academic Department, and The Clay Center at VSB. Proposals must include clear assessment strategies and grading criteria. Proposals must be submitted to The Clay Center at VSB by the first day of the semester.

When successfully completed, the independent study **may** fulfill a major elective or free elective degree requirement. Please contact Academic Department Chair for additional information.

International Baccalaureate (IB) Credit

Students achieving a 5, 6 or 7 on the International Baccalaureate (IB) Program may be granted college credits with the approval of The Clay Center at VSB (Bartley Hall, #1054). Credit is

only given for “**higher level exams**”. The student and the Registrar’s Office are notified if IB credits are awarded.

Note: IB credits are considered transfer credits. The maximum number of transfer credits allowed is 60 credits which includes AP, Study Abroad, and credits taken at another institution.

International Baccalaureate Credit and Course Equivalence

Note: Credit is Only Given for Higher Level Exams

Subject	Score of 5	Score of 6 or 7	Cr.	VSB Requirement Fulfilled
Biology	-	BIO 2105 BIO 2106 CHM 1103 CHM 1104	4 4 1 1	Natural Science and Social Science
Chemistry	-	CHM 1151 CHM 1152	4 4	Natural Science and Social Science
Computer Science HL	CSC 1051	CSC 1051	4	Natural Science or Social Science
Information Technology	CSC 1930	CSC 1930	3	Natural Science or Social Science
Economics	ECO 1001 ECO 1002	ECO 1001 ECO 1002	3 3	ECO 1001 ECO 1002
English	ENG 1020	ENG 1020	3	ENG 1975
French A2 or B	-	FFS 1119 FFS 1120	3 3	Humanities and Non-Bus.
Geography	GEV 1002	GEV 1002	3	Natural Science or Social Science
History Americas	-	HIS 4495	3	History or Humanities or Social Science
History Europe	-	HIS 1021	3	History or Humanities or Social Science
Italian A2 or B	-	ITA 1119 ITA 1120	3 3	Humanities and Non-Bus.
Latin	-	LAT 1119 LAT 1120	3 3	Humanities and Non-Bus.
Mathematics AA	MAT 1500	MAT 1500 MAT 1505	4 4	Score 5 – MAT 1500 Score 6 or 7 – MAT 1500 and Non-Bus.
Mathematics AI	MAT 1500	MAT 1500 MAT 1505	4 4	Score 5 – MAT 1500 Score 6 or 7 – MAT 1500 and Non-Bus.
Music	-	SAR 3030	3	Humanities or Non-Bus.
Philosophy	-	PHI 2990 PHY 1100/01	3 3/1	Humanities or Non-Bus.
Physics	-	PHY 1102/03	3/1	Natural Science and Social Science
Psychology	-	PSY 1000	3	Behavioral Science or Social Science
Spanish A2 or B	-	SPA 1119 SPA 1120	3 3	Humanities and Non-Bus.

Note:

1. For the Advanced Placement (AP) related

transfer credits, please refer to the [Advanced Placement](#) section for the detailed information.

2. For the A Level related transfer credits, please refer to the [A Level Courses and Equivalency](#) section for the detailed information.

Policy on Undergraduates Enrolling in Graduate Courses

1. Undergraduates may take graduate courses, provided they meet the standards set down by each college: e.g., senior standing (in terms of credits, not in terms of years at Villanova), grade point average, and appropriate permissions (advisor, dean, chair, course instructor). The College of Nursing may exempt certain students from the “senior standing” requirement for a limited number of courses that juniors may take. Colleges are urged to compile a list of graduate courses that may and may not be taken, and this list should be available to students upon request. Colleges will ensure that proper advising is provided to undergraduate students with respect to taking graduate courses.
2. Undergraduates may take a maximum of two graduate courses in any semester. If an undergraduate takes a graduate class, in that semester s/he is limited to taking a maximum of 16 credit-hours of work. The deans of the individual college approval procedures may impose more restrictive limits if that is deemed necessary. In the Colleges of Nursing and Engineering, because of scheduling needs, students may, with permission, slightly exceed the 16 hour limit.
3. If allowed by the graduate program, up to nine hours or nine credits of graduate courses taken by undergraduates may double count – both for the bachelor’s degree and for the master’s degree, whether or not a student is formally enrolled in a five year bachelor’s-master’s program. If an undergraduate student completes additional graduate courses beyond the three, the additional course(s) will count toward the undergraduate degree and be included in the student’s undergraduate

record unless the Graduate Dean in CLAS, or the appropriate Associate Dean responsible for graduate programs in the other colleges, approves the additional course(s) counting toward the graduate degree only.

4. All graduate courses taken by an undergraduate student will appear and remain on the undergraduate transcript, and will be calculated in the undergraduate GPA. When additional graduate courses beyond the three that will double count are taken, and if the additional graduate courses are allowed to count toward a subsequent graduate degree, then the undergraduate college will need to manage the student’s undergraduate degree audit so that the additional graduate course(s) is/are excluded from fulfilling undergraduate degree requirements. If/when a student becomes a graduate student, and graduate courses taken as an undergraduate student apply to that program, the Graduate Dean in CLAS, or the appropriate Associate Dean responsible for graduate programs in the other colleges, will notify the Registrar’s Office of all graduate courses to be applied to graduate degree requirements, so record adjustments can be made.

*Approved by Provost and Council of Deans
October 31, 2017*

Readmission

A former VSB student who withdrew in good standing (over a 2.0 cumulative grade point average and no probationary problems) may be readmitted to VSB upon request. An application for re-admission and all supporting documents must be submitted to VSB by June 15. A readmitted student may be responsible for the degree requirements in place at the time he/she is readmitted.

A student who has been dropped for academic reasons must be away from Villanova University for two semesters (summer sessions count as one) before reapplying. The Academic Standing Committee will review the request for readmission, the former records, and the achievement obtained while away from Villanova in order to make a decision whether to readmit the student.

Villanova does not pre-approve courses to be taken at another university after a student has been dismissed or has withdrawn. Candidates for readmission to the University demonstrate readiness to return to Villanova by the completion of 12 credits with grades of “B” or higher. If applicants are readmitted, then credits may be considered for transfer to Villanova in alignment with the Transfer Credit Policy. Acceptance of such credits is at the sole discretion of the Associate Dean.

The Committee will also consider transfer applications from students wishing to be readmitted to VSB from other Villanova colleges.

Refund Schedule

Fall/Spring Semester Refund Policy

Segment of Semester Refund

Up to first week	80%
Up to second week	60%
Up to third week	40%
Up to fourth week	20%
Beyond fourth week	No Refund

(For Summer Semester policy, please see Bursar’s website: <https://www1.villanova.edu/university/financial-affairs/bursar.html>.)

Refunds as a result of official withdrawal will be made according to the following schedule. Excluded from the refund calculation will be the costs related to on-campus housing and university meal plans. Activity, library, and medical fees are not refundable. There will be no refund for unauthorized withdrawals. Students who do not register or who notify the Registrar’s Office prior to the first day of class that they will not enroll are entitled to a full refund.

In addition to the University’s refund schedule and in accordance with the Higher Education Amendments of 1992, if a student completely withdraws from the University and has utilized Federal Title IV funds (e.g. Federal Pell Grant, Federal Supplemental Educational Opportunity Grant [SEOG], Academic Competitiveness Grant, National SMART Grant, Federal Direct Stafford Student Loan, Federal Direct PLUS, Federal Direct Graduate PLUS), during the semester in which they withdraw, the University will observe the federally mandated process in determining what, if any amount of money must be returned

to the federal program (s). For more information on the Return of Title IV Funds please visit: <https://www1.villanova.edu/university/office-of-financial-assistance/Policies/return-of-title-IV-funds.html>.

Registration

Registration for the fall semester and summer sessions for continuing students usually takes place in March, while registration for the spring semester usually takes place in October. All VSB first-year students are required to meet with their Peer Advisor or Academic Advisor to review the remaining degree requirements and receive their registration PIN before registering for an upcoming semester. Although sophomores, juniors, and seniors receive a generic registration PIN, they are encouraged to meet with their academic advisor.

Repeat First Year/ Academic Bankruptcy

A first-year student who fails to achieve a 2.00 grade point average (GPA) may be permitted to repeat the year with a new start on his/her cumulative average. Tuition will not be refunded.

This privilege called academic bankruptcy is rarely granted. Extenuating circumstances (serious illness, injury, or family situations) are usually necessary as a reason and all other alternatives such as withdrawal without academic penalty (WX) in current courses must be exhausted.

Bankruptcy must be requested by the student and is granted at the discretion of the Associate Dean. Students must have successfully completed two consecutive semesters and attained a minimum GPA of 2.50 in each subsequent semester to be considered for bankruptcy. It is important to note that courses and grades remain on the transcript but are not calculated in the student’s GPA and total earned credit hours.

Room Reservations

A student who wishes to reserve a classroom for a group or organization should visit the Registrar's [Room Reservation](#) website for the detailed instructions.

Satisfactory/ Unsatisfactory Options

Policies regarding the satisfactory/unsatisfactory grading option are listed below:

- The satisfactory/unsatisfactory option (S/U) may be selected for the non-business elective and free electives only. Major, minor, or concentration courses cannot be taken on a S/U basis.
- Only one non-business elective or free elective course per semester may be taken on a S/U basis.
- A student must have junior or senior standing with a minimum grade point average (GPA) of 2.5.
- A student must request the S/U option by the end of the drop/add period (first week of the semester); the form is available in MyNova. Advisor approval is required.
- The grading scheme may not be changed after the drop/add period.
- The satisfactory "S"/unsatisfactory "U" grade will be shown on the transcript but will not be reflected in the grade point average (GPA).
- The grade "S" is equal to C or better.
- A student **is not** permitted to officially retake a course with the letter grade option, if the course has been taken previously with the S/U option.
- An unsatisfactory "U" grade will not count toward degree requirements. The particular course in which an unsatisfactory grade was earned need not be repeated unless the course is fulfilling a degree requirement.

Note: VSB does not encourage this option.

Schedule Changes

Students may add and drop courses through myNOVA during the first week of the semester using their semester registration PIN. This is referred to as the drop/add period. A request to add a course after the add/drop period is rarely granted. The Associate Dean's approval is necessary as well as the Chair of the Academic Department. This may only be granted for students with extenuating circumstances. Supporting documents are required for consideration of each request.

Please remember that although Academic Advisors are available to assist with course selection, it is the student's responsibility to choose the appropriate courses to complete their degree requirements. Please use the following as a guideline:

- If all sections of a VSB course are closed, students should complete the VSB Override Approval Form, available in myNOVA, and submit it via email to the respective department contact listed at the bottom of the form. Submission of the form does not guarantee admittance into the closed course. The department will review the request and determine if it can be accommodated – this can take several weeks. It is recommended to register for an open back-up course while waiting to hear back. For closed classes *outside* of VSB, students should email the respective department chair to inquire about their override policy and processes.
- If a course is dropped and none added, students are responsible for making up the dropped credits if required for graduation.
- For information about withdrawing from a class after the official drop/add period, please refer to [the Withdrawal from a Course section](#) of the Catalog.

Student Leaves of Absence

Non-Medical Leave of Absence

Villanova recognizes that it is sometimes necessary for students to interrupt their enrollment for a period of time and take a leave of absence. Students may take a non-medical leave for a variety of reasons including, for example, to attend to academic, personal, or financial matters.

Non-Medical Leave of Absence Process

A student who wishes to take a non-medical leave of absence must take the following steps:

1. Submit a completed "[Request for Non-Medical Leave of Absence](#)" form to the Dean's office of the student's academic college or the Dean of Students office, or their designee; and
2. Meet with a designated staff or faculty member to review the request.

Students may request a non-medical leave at any time during the semester, but must complete such requests – including any requisite evaluation and related paperwork – no later than the last day of classes in a semester. If a student does not complete a non-medical leave request by the last day of classes, the University will deem the request late and consider it for the following semester.

If the University finds good cause, a leave may be granted. Because every student's situation is different, the terms of a non-medical leave will be determined individually, including the duration of leave, any restrictions from living in residence halls or coming on campus or attending University events, and any conditions for the student's eligibility to return to campus following the leave.

Medical Leave of Absence

Students may request a medical leave of absence (MLOA) if they experience health situations that significantly limit their ability to function successfully or safely in their role as students.

Medical Leave of Absence Process

A student seeking a MLOA must take the following steps:

1. Submit a completed "[Request for Medical Leave of Absence](#)" form to the Dean's office of the student's academic college or the Dean of Students office, or their designee; and
2. Meet with a designated staff or faculty member to review the request.

The student may be asked to schedule and undergo an evaluation by the Student Health Center and/or the University Counseling Center before a leave is granted. This evaluation will occur after the student has met with the Dean, Associate/Assistant Dean, or their designee. The student may be asked to sign a release allowing the Student Health Center and/or the University Counseling Center to discuss their evaluation of the student with the Dean, Associate/Assistant Dean, or their designee who is reviewing the request.

After evaluating the student, the Student Health Center and/or the University Counseling Center will determine whether a significant health issue has compromised the student's health, safety or academic success, and will submit an individualized recommendation to the Dean, Associate/Assistant Dean, or their designee regarding the student's request for a MLOA.

The Dean, Associate/Assistant Dean, or their designee reviewing the request will make the final determination whether to grant the MLOA and will notify the student of the decision in writing. Because every student's situation is different, the terms of a MLOA will be determined individually, including the duration of leave, any restrictions from living in residence halls or coming on campus or attending University events, and any conditions for the student's eligibility to return to campus following the MLOA.

Students may request a MLOA at any time during the semester, but must complete such requests – including any requisite evaluation and related paperwork for the Dean's office – no later than the last day of classes in a semester. If a student does not complete a MLOA request by the last day of classes, the University will deem the request late and consider it for the following semester.

Return Following a Leave

Some students who take a leave will have no requirements attached to their return to the University. However, students may be subject to specific requirements for their return based on the circumstances of their departure. Any conditions or requirements for return will be based on an individualized assessment of the student, including consideration of current medical knowledge and/or the best available objective evidence. The goal of these conditions is to prepare the student for a successful return to the University.

A student who is placed on a leave of absence for any reason, voluntary or involuntary, may apply to return to the University by writing to the Dean's office that granted the leave. The student must demonstrate that the student has met any conditions or requirements that were specified for the student's return to the campus community.

Students on leave must complete their request to return submissions by December 1 for the spring semester, April 1 for the summer semester, and July 1 for the fall semester. These deadlines ensure that the appropriate University officials have enough time to review the student's request. The University will attempt to be flexible and review requests completed within a reasonable time after the relevant deadline. Nevertheless, if there is information missing from the request, and/or the University needs additional time to contact the student's treating provider(s) (for health-related leaves), the University may consider the student's return for the following semester than the semester for which the student initially sought to return.

For more information about student leaves of absence, please see the full [Student Leave of Absence Policy](#).

Study Abroad

VSU students are encouraged to participate in a study abroad experience. The [Office of Education Abroad](#) (OEA) assists students in identifying opportunities and facilitating the enrollment process.

Application Deadlines

Spring study abroad: October 15

Fall study abroad April 15

Summer study abroad: April 1

Some Villanova programs may have earlier application deadlines than above. Students must have a 2.75 GPA or higher. For semester study abroad, full-time student status and rising sophomore or junior standing is required. Students who wish to study abroad first semester of their senior year must obtain approval from the Assistant/Associate Dean. Students may not participate in a study abroad if they have any holds on their account, including financial holds, academic concerns, or disciplinary probation. Transfer students must have completed three semesters at Villanova prior to participating in an overseas program.

Prior approval is required. A completed Course Approval Form (CAF) is required and must be signed by OEA, the student's academic advisor, and the student. The CAF outlines the students proposed academic plan abroad, and confirms the VU equivalents of those overseas courses.

Transfer credit will not be granted for any course that has not received prior approval.

While abroad, students may take no more than three business courses in a given semester; no more than two courses may satisfy the requirements for one major (*note: only one course for the Analytics & Artificial Intelligence co-major may transfer*) and no more than one course may satisfy requirements for one minor. Four of the six required courses for each major and two of the required three courses for each minor must be taken at Villanova. Accounting courses may not be taken abroad for accounting credit. All courses require a grade of "C" or better for credits to transfer. Actual grades are not calculated in the GPA. Students must request an official transcript to be sent to the [Office of Education Abroad](#).

Additional policy regarding taking a foreign language course abroad:

Students are expected to enroll in the courses they are placed into via placement assessment conducted by a study abroad program provider and will receive credit as appropriate. If a student is placed in a direct equivalent to a course that they already have credit for (Transfer or VU), they can elect to drop the earned credit or they can discuss options with the relevant language department.

Students **are not** permitted to enroll in distance learning classes while participating in a study abroad experience (fall, spring, summer).

Note: The maximum transfer credits allowed are 60 credits which including AP, Study Abroad, and credits taken at another institution.

Summer School

At Villanova University

Villanova offers three summer sessions. Students may take no more than 4 courses during the summer with no more than the equivalent of 8 credits during Summer Session I or Summer Session II without approval from the Assistant/Associate Dean.

VSU students may register for summer courses through myNOVA. To avoid a late fee, payment must take place before the first day of the summer session. For the detailed information regarding the refunds, please refer to the [Refund Schedule](#) section.

At Another Institution

VSU students are permitted to take certain classes elsewhere over the summer (see below for restrictions). Permission through the approval process in MyNova must be obtained before enrolling in the course. If the summer course(s) are to be taken abroad, permission is required from the [Office of Education Abroad](#); please do not use the Permission to Enroll a Course at Another Institution Form.

Students may take no more than 4 courses during the summer with no more than the equivalent of 8 credits in each summer session. Classes may not overlap with Villanova's final exam schedule or the start or end of Villanova semester. Credits only, not grades, are transferable for work completed at other institutions. All courses must be taken for a letter grade. A grade of "C" or better is required; a grade of "C-" will not transfer. Satisfactory/Unsatisfactory grades will not transfer.

To receive credit in a course offered at another institution, a VSU student must:

- Have at least a 2.0 cumulative GPA. If a student's GPA falls below 2.0 after the spring

grades are posted, the student may not take any courses at another institution.

- Recommend selecting an accredited two-year or four-year institution on a semester basis (not quarter).
- Select a course that meets at least 15 different days and has a total of at least 37 hours of meeting time. Note that Villanova does not approve transfer of credit for courses taken during the summer at other colleges or universities if the same or comparable (for fulfilling degree requirements) courses are offered in a distance learning mode during the summer sessions at Villanova (unless the course is full).
- Submit the Permission to Take Courses Elsewhere Form (available in MyNova) by May 15 or ten days prior to the start of the course(s) - whichever comes first.

The following courses must be taken at Villanova:

ENG 1975 (Core Lit and Writing Seminar)

ETH 2050 (The Good Life: Ethics & Contemporary Problems)

PHL 1000 (Knowledge, Reality, and Self)

THL 1000 (Topics on [Catholic Studies](#) OR [Faith, Reason, and Culture](#) OR [Global Religious Experience](#))

All business courses - including ECO 1001 (Intro to Micro), ECO 1002 (Intro to Macro) and ECO 3108 (Global Political Economy)

Per the University's Residency Requirement, the final 30 credits of a student's academic program must be completed at Villanova. Exceptions may be made by the College in exceptional circumstances. The maximum transfer credits allowed are 60 credits which include AP, Study Abroad, and credits taken at another institution.

Upon completion of the summer course, students should send an official transcript to claycenter@villanova.edu or

Villanova University - Villanova School of Business

The Clay Center at VSU

800 Lancaster Avenue

Villanova, Pennsylvania 19085

Technical Grade Point Average (TGPA)

Students must attain a minimum technical grade point average (TGPA) of 2.0 to satisfy degree requirements. All ACC, BL, ECO (except ECO 3120, and ECO 3130), ENT, FIN, MGT, MIS, MKT, RES, and VSB courses (except VSB 2500) are included in the TGPA calculation. Any course that fulfills Villanova School of Business major requirements will be calculated in TGPA.

If a course is repeated, both grades are included in the computation of the TGPA and both remain part of the official academic record. If a transfer course is accepted to fulfill a requirement for a failed Villanova University course, the failed Villanova University course still counts in the computation of the TGPA.

Transfer Students from Other Universities (External Transfer)

The maximum number of transfer credits allowed toward degree requirements is 60 credits which include AP, Study Abroad, and credits taken at another institution. **No more than 22 transfer credits will apply to satisfy business core classes.**

- Credit will transfer for courses in which grades of "C" (not "C-") or better have been earned.
- Pass/Fail or Satisfactory/Unsatisfactory grade at other institutions: Students are required to have the Registrar (not the professor) at the other institution certify that the "P" or "S" grade represents at least a "C" grade before credit could be granted. In some cases, an addendum to the transcript is required to provide an interpretation of grades.
- Math Credits: Math courses lower than Calculus will not apply to degree requirements. Calculus classes from other institutions must be 4 credits to be considered for equivalency to Villanova's MAT 1500: Calculus class.

- Quarter hours: Allocated best way possible, but total credits should not exceed 2/3 of quarter hours eligible.
- No credit is granted for physical education courses, professional development courses, or first-year seminars.
- Elective credit granted for courses which relate reasonably to a course offered by Villanova.
- School must be regionally accredited and course(s) must relate directly to a Villanova course(s).
- No developmental courses will transfer.
- Courses must be at least 3 semester hours to be considered for transfer.
- All documentation must be submitted during the first-year at Villanova.

Transfer Students from Other Villanova Colleges (Internal Transfer)

Admission to VSB is highly competitive. A student wishing to transfer into VSB from another Villanova college must successfully complete specific prerequisite courses, attend a mandatory information session, and complete an application. Dates and times of the mandatory information sessions are announced at the start of each semester. The applications are available online and the submission deadline is April 15. All applications are reviewed by the VSB Admissions/Academic Standing Committee in late-May.

If a student has transferred into another Villanova college from another institution, the student may not later apply as an internal transfer to VSB.

Transfer Policies:

- All grades in core courses that satisfy VSB degree requirements transfer (e.g. ACS 1000;

ACS 1001; ENG 1975; THL 1000; and PHI 1000.)

- **Calculus Substitution:**
MAT 1505 will satisfy a non-business or free elective. If a student completed a two three-credit calculus sequence (e.g. MAT 1320 and MAT 1325) prior to transfer, credit will be given for MAT 1500 (4 cr.) only.
- **Language Course Substitution:**
A foreign language course may fulfill a humanities or non-business or free elective.
- **[Statistics](#) Substitution:**
For students who have completed one semester of Statistics (STAT 1230), transfer credit will be given for a non-business or free elective. Students are still required to take STAT 1430.

For students who have taken both STAT 1230 and 1235 prior to transfer, transfer credit will be given for STAT 1430 only.

Once an internal transfer student has successfully completed two consecutive semesters in VSB and has attained a minimum of 2.5 GPA in each semester, grades for courses that do not apply to the student's VSB curriculum may be excluded from the calculation of the student's GPA and total credits earned. The exclusion is not automatic. Students must petition The Clay Center at VSB for permission. However, the original course and grade earned will remain on the student's transcript.

Withdrawal from a Course

Students are allowed to withdraw from a course, without academic penalty, until the deadline published each year by the Registrar and receive the grade of "WX". The WX form can be found in the [VSB Undergraduate Forms](#) in myNOVA. Some courses may have prior WX deadlines than are what are published in the Academic Calendar. These dates are published in the relevant course syllabi.

In extreme cases, permission to withdraw without academic penalty may be given after the

deadline. It requires a non-academic related reason. The procedures to process a WX form after the deadline are as follows:

- A student must complete the WX form found on myNOVA with valid reasons, such as serious personal or medical problems. Supporting documentation, such as doctor's notes or health center records, is required.
- The student must also obtain authorizing signatures from the instructor of the course, the Chair of the Academic Department, The Clay Center at VSB, and Assistant Dean (or Associate Dean) in order to complete the withdrawal form. Each party has the option of approving or disapproving the withdrawal based on the reasons provided. The Assistant Dean (or Associate Dean) has the final authority for granting or refusing the exception on the basis of the documentation and the signatures submitted.

Students who do not have a justifiable cause to withdraw from a course after the authorized date may still withdraw from the course and receive a grade of "W". The grade of "W" is equivalent to an "F" grade and is included in computing the student's grade point average (GPA), technical grade point average (TGPA), or major grade point average if appropriate.

Students wishing to withdraw from the internship course must contact the designated O'Donnell Center contact prior to the withdrawal (WX) deadline. See the *Withdraw/Termination of an Academic Internship/CoOp* section under [the O'Donnell Center for Professional Developments](#) for the specific procedures.

Withdrawal from the University

Students who wish to leave and who do not plan to return to the University should request a Withdrawal. Official withdrawal from the University must be authorized by the Dean of the appropriate college. In order to affect an official withdrawal, a student must submit to the Associate Dean, Undergraduate Business Programs, a formal letter, or the appropriate college form, and then have an interview with the

Associate Dean. Students who request an official withdrawal during the semester may be eligible for refund of some or all of the tuition paid for that semester (see the [Refund Schedule](#) section for more details). A student who has withdrawn from the University who wishes to return, must apply directly to the college the student wishes to attend (admission is granted at the sole discretion of the Dean of that college.)

Students who leave the University without authorization will be treated as having withdrawn from the University. They may not return to the University without reapplying directly to one of the Villanova's colleges.

Academic Programs

Accounting & Information Systems

Accounting Major

Chair: Jennifer Altamuro, PhD.
Associate Chair: Denise Downey, PhD., KPMG
Endowed Professor in Accounting
Office: 3019 Bartley Hall
Telephone: 610-519-4340
[Website](#)

Program	Accounting
Degree	Bachelor of Business
Type	Administration

About

To earn an accounting major, students must complete the university core curriculum, the business core curriculum, along with four required accounting courses and two accounting elective courses. A major in Accounting leads to a degree of Bachelor of Business Administration.

If an accounting major decides to become a certified public accountant (CPA), the requirements differ by state and have traditionally required the completion of a certain number of credit hours in an accounting program at a college/university; passing the Uniform CPA Exam; and obtaining a specific amount of professional work experience. Currently, a small number of States have passed laws that add an option to earn the CPA with 120 credit hours accompanied by additional professional work experience. This contrasts with the current law in many states that requires 150 credit hours and less work experience. Our expectation is that most States will pass laws that allow for the completion of 120 credit hours with expanded work experience in the very near future. Please contact our faculty advisors: Professors Patty Crenny (patricia.crenny@villanova.edu) or Stasia Morlino (stasia.morlino@villanova.edu) for the latest updates regarding these changes.

We have many students that complete both an undergraduate and graduate degree; our two accounting graduate degree programs are the Master of Accounting with Data Analytics (MAC) and Master of Business Taxation with Data Analytics (MBT). Students can earn both degrees over the course of four, four and a half, or five years. Please see the accounting faculty advisors listed above for more information and to determine if this option is right for you.

PRIMARY MAJOR (125 Credits)

125 credits are required to complete Accounting as the primary major and the Bachelor of Business Administration degree. For students seeking the Bachelor of Business Administration, Honors degree and Accounting as the primary major, 126 credits are required.

Accounting Major Courses (18 Credits)

Accounting major requires **six (6)** unique ACC courses. A major GPA of 2.00 is required.

Note: ACC 3430, ACC 3460 (6 cr.), ACC 3470 (6 cr.), and ACC 3500 do not count toward Accounting elective courses.

Course	Title	Credits
ACC 2310	Intermediate Accounting I	3
ACC 2320	Intermediate Accounting II	3
ACC 2360	Federal Income Tax	3
ACC 2430	Auditing	3
	Plus two (2) Accounting elective courses	6

Core Curriculum Requirements

[89 Credits](#)

Electives

[18 Credits](#)

Degree Credit Summary

- **Major Course Requirements:** 18 Credits
- **Core Curriculum Requirements:** 89 Credits
 - Liberal Arts & Sciences Curriculum (44 cr.)
 - Business Core Requirements (45 cr.)
- **Elective Requirements:** 18 Credits
- **Total Credits:** 125 Credits

Additional Information

- All Arts and Sciences core courses, business core courses (*except VSB 0099 – 0 cr., VSB 1000 – 1 cr. and VSB 1003 – 0 cr.*), major courses, minor courses, and concentration courses must be taken for a letter grade.
- One credit courses {except ACC 2021, ACC 2022, ACC 2023, COM 5300, EGEN 2100 (for Engineering EENT or EESI minor), FIN 2121, MAT 1000, VSB 1000, VSB 2000, VSB 2121, and VSB 3000} may not satisfy degree requirements, including free electives.
 1. Three one credit courses listed below may also satisfy a free elective requirement:
 - ACC 2021 - Intro to Forensics for Accountants
 - ACC 2022 - Intro to Deals Advisory for Accountants
 - ACC 2023 - Intro to Digital & Cyber-Security for Accountants
 2. Three COM 5300 (1 cr.) on different topics may satisfy a non-business or a free elective requirement.
- An “S/U” grade (Satisfactory/Unsatisfactory Option) is only permitted for a non-business elective or free electives. See the [Satisfactory/Unsatisfactory Option](#) section for more information.
- Generally, courses may not be able to satisfy multiple degree requirements within VSB. The only exception is sharing courses between a major and co-major. Please refer to the co-major sections for the sharing details.

SECONDARY MAJOR (18 Credits)

Students who declare Accounting as a **secondary major** must complete all accounting major courses to earn this major. Secondary accounting major courses may also fulfill the free elective requirements.

Plus two (2) Accounting elective courses

Elective Credits 6

Accounting Minor

Chair: Jennifer Altamuro, PhD.
Associate Chair: Denise Downey, PhD.
Office: 3019 Bartley Hall
Telephone: 610-519-4340
[Website](#)

Program Accounting
Degree Type Minor

About

To earn the accounting minor, students must complete two required accounting courses plus the choice of one other accounting course. A minor in Accounting will supplement almost any business degree. For example, many students pair an accounting minor with majors in Finance or Management Information Systems as jobs in these fields routinely engage with accounting.

Course Requirements for Accounting Minor (9 Credits)

Accounting minor requires **three (3)** unique ACC courses to fulfill the minor requirements.

Course	Title	Credits
ACC 2310	Intermediate Accounting I	3
ACC 2320	Intermediate Accounting II	3

Plus one (1) Accounting elective course from the following:

Course	Title	Credits
ACC 2340	Accounting Information Systems	3
ACC 2360	Federal Income Tax	3
ACC 2410	Accounting for Real Estate	3
ACC 2420	International Accounting	3
ACC 2430	Auditing	3
ACC 2450	Advanced Accounting	3
ACC 2470	Cost Accounting	3
ACC 2480	Advanced Taxes	3
ACC 3350	Fraud Examination	3

Note:

1. ACC 3430, ACC 3460 (6 cr.), ACC 3470 (6 cr.), and ACC 3500 do not count toward Accounting elective courses.
2. Accounting minor courses may also fulfill the free elective requirements.

Artificial Intelligence and Machine Learning Minor

Chair: Jennifer Altamuro, PhD.
Associate Chair: Q. Chung, PhD.
Office: 3019 Bartley Hall
Telephone: 610-519-4340
[Website](#)

Program Artificial Intelligence and Machine Learning
Degree Type Minor

About

The Artificial Intelligence and Machine Learning (AIML) minor is a three-course minor program. It is open to all VSB students, with coursework that includes building prototype intelligent systems, natural language processing, expert systems, supervised and unsupervised learning, and robotics, among other areas that comprise the broad field of AI.

Artificial intelligence and machine learning have become increasingly important technologies across all business disciplines such as finance, banking, marketing, healthcare, accounting and real estate.

Course Requirements for Artificial Intelligence and Machine Learning Minor (9 Credits)

Artificial Intelligence and Machine Learning minor requires **three (3)** unique MIS courses to fulfill the minor requirements.

Course	Title	Credits
MIS 3300	AI & Machine Learning for Bus	3
MIS 2020	Prog for Adaptive Prob Solving	3
MIS 3080	Applied Machine Learning	3

Note:

1. Artificial Intelligence and Machine Learning (AIML) minor courses may also fulfill the free elective requirements.
2. Students pursuing the Applied Quantitative Finance Concentration (AQF) may not also minor in AIML minor due to similarity of coursework.

Management Information Systems Major

Chair: Jennifer Altamuro, PhD.
 Associate Chair: Q. Chung, PhD.
 Office: 3019 Bartley Hall
 Telephone: 610-519-4340
[Website](#)

Program Management Information Systems
Degree Bachelor of Business
Type Administration

About

Management Information Systems (MIS) blends business knowledge with the use of information technology to solve complex business challenges. The focus of MIS isn't computer programming; instead, you will learn how to strategically apply technology to enhance the way people work and help companies innovate their products and services. From traders looking to capture market inefficiencies to marketers engaging with consumers to executives expanding businesses globally, technology impacts business in every way and with an MIS major, you will develop the skills to understand those business needs and create IT solutions that add value.

Major in Management Information Systems leads to a degree of Bachelor of Business Administration.

PRIMARY MAJOR (125 Credits)

125 credits are required to complete Management Information Systems as the primary major and the Bachelor of Business Administration degree. For students seeking the Bachelor of Business Administration, Honors degree and Management Information Systems as the primary major, 126 credits are required.

Management Information Systems Major Courses (18 Credits)

Management Information Systems major requires **six (6)** unique major courses. A major GPA of 2.00 is required.

Note: MIS 3310 and MIS 3500 do not count toward Management Information Systems elective courses.

Choose two of the following:

Course	Title	Credits
MIS 2020	Prog for Adaptive Prob Solving	3
MIS 2030	Database Management	3
MIS 2040	Systems Analysis & Design	3

Plus any four (4) MIS elective courses from the following:

Course	Title	Credits
MIS 3010	Business Data Communications	3
MIS 3020	Enterprise Systems & Appl	3
MIS 3030	Enabling Tech in E-Business	3
MIS 3040	MIS Seminar	3
MIS 3050	CRM and Data Analytics	3
MIS 3060	Bus Intelligence and Perf Mgmt	3
MIS 3070	Emerging Business Technologies	3
MIS 3080	Applied Machine Learning	3
MIS 3090	Special Topics in MIS	3
MIS 3300	AI & Machine Learning for Bus	3

Also note:

- One MIS elective course can also include MIS 2020, MIS 2030, or MIS 2040.
- MIS 2020 is the only course that can be shared between MIS major and Applied Quantitative Finance concentration.
- Four out of the six MIS major courses must have MIS as the subject code. The following courses may count toward two out of the six MIS major requirements:
 - ACC 2340 (Accounting Information Systems) may fulfill an MIS elective only if this course is not also fulfilling an ACC major or an ACC minor requirement.
 - CSC 1052 (Algorithms & Data Struct II) may fulfill MIS 2020 only if this course is not fulfilling the core Arts and Sciences requirement.
 - CSC 4480 (Principles of Database Systems) or MSA 8110 (Data Models & Struct Analysis) may fulfill MIS 2030.
Note: only one out of these three courses may satisfy an MIS major elective course.
 - Other CSC courses with an MIS course attribute may also fulfill MIS major electives.
 - MSA 8240 (Business Intelligence) may fulfill MIS 3060.
Note: only one out of these two courses may satisfy an MIS major elective course.

Core Curriculum Requirements

[89 Credits](#)

Electives

[18 Credits](#)

Degree Credit Summary

- **Major Course Requirements:** 18 Credits
- **Core Curriculum Requirements:** 89 Credits
 - Liberal Arts & Sciences Curriculum (44 cr.)
 - Business Core Requirements (45 cr.)
- **Elective Requirements:** 18 Credits
- **Total Credits:** 125 Credits

Additional Information

- All Arts and Sciences core courses, business core courses (*except VSB 0099 – 0 cr., VSB 1000 – 1 cr. and VSB 1003 – 0 cr.*), major courses, minor courses, and concentration courses must be taken for a letter grade.
- One credit courses {except ACC 2021, ACC 2022, ACC 2023, COM 5300, EGEN 2100 (for Engineering EENT or EESI minor), FIN 2121, MAT 1000, VSB 1000, VSB 2000, VSB 2121, and VSB 3000} may not satisfy degree requirements, including free electives.
 1. Three one credit courses listed below may also satisfy a free elective requirement:
 - ACC 2021 - Intro to Forensics for Accountants
 - ACC 2022 - Intro to Deals Advisory for Accountants
 - ACC 2023 - Intro to Digital & Cyber-Security for Accountants
 2. Three COM 5300 (1 cr.) on different topics may satisfy a non-business or a free elective requirement.
- An “S/U” grade (Satisfactory/Unsatisfactory Option) is only permitted for a non-business elective or free electives. See the [Satisfactory/Unsatisfactory Option](#) section for more information.
- Generally, courses may not be able to satisfy multiple degree requirements within VSB. The only exception is sharing courses between a major and co-major. Please refer to the co-major sections for the sharing details.

SECONDARY MAJOR (18 Credits)

Students who declare Management Information Systems as a **secondary major** must complete all management information systems major courses to earn it as a secondary major. Secondary management information systems major courses may also fulfill the free elective requirements.

Management Information Systems Minor

Chair: Jennifer Altamuro, PhD.
Associate Chair: Q. Chung, PhD.
Office: 3019 Bartley Hall
Telephone: 610-519-4340
[Website](#)

Program [Management Information Systems](#)
Degree Type Minor

About

Management Information Systems (MIS) blends business knowledge with the use of information technology to solve complex business challenges. The focus of MIS isn't computer programming; instead, you will learn how to strategically apply technology to enhance the way people work and help companies innovate their products and services. From traders looking to capture market inefficiencies to marketers engaging with consumers to executives expanding businesses globally, technology impacts business in every way and with an MIS minor, you will gain insight on the ways IT systems are designed, developed and deployed.

Course Requirements for Management Information Systems Minor (9 Credits)

Management Information Systems minor requires **three (3)** unique business courses to fulfill the minor requirements.

Note: MIS 3310, MIS 3331, and MIS 3500 do not count toward Management Information Systems elective courses.

Choose two of the following:

Course	Title	Credits
MIS 2020	Prog for Adaptive Prob Solving	3
MIS 2030	Database Management	3
MIS 2040	Systems Analysis & Design	3

Plus one (1) elective course choosing from the following:

Course	Title	Credits
MIS 3010	Business Data Communications	3
MIS 3020	Enterprise Systems & Appl	3
MIS 3030	Enabling Tech in E-Business	3
MIS 3040	MIS Seminar	3
MIS 3050	CRM and Data Analytics	3
MIS 3060	Bus Intelligence and Perf Mgmt	3
MIS 3070	Emerging Business Technologies	3
MIS 3080	Applied Machine Learning	3
MIS 3090	Special Topics in MIS	3
MIS 3300	AI & Machine Learning for Bus	3

Also note:

- Management Information Systems minor courses may also fulfill the free elective requirements.
- One MIS elective course can also include MIS 2020, MIS 2030, or MIS 2040.
- Two out of the three MIS minor courses must have MIS as the subject code. The following courses may count toward one out of the three MIS minor requirements:
 - ACC 2340 (Accounting Information Systems) may fulfill an MIS elective only if this course is not also fulfilling an ACC major or an ACC minor requirement.
 - CSC 1052 (Algorithms & Data Struct II) may fulfill MIS 2020 only if this course is not fulfilling the core Arts and Sciences requirement.
 - CSC 4480 (Principles of Database Systems) or MSA 8110 (Data Models & Struct Analysis) may fulfill MIS 2030.
Note: only one out of these three courses may satisfy an MIS minor elective course.
 - MSA 8240 (Business Intelligence) may fulfill MIS 3060.
Note: only one out of these two courses may satisfy an MIS minor elective course.

Economics

Economics Major

Chair: Erasmus Kersting, Ph.D.
Associate Chair: Mary Kelly, Ph.D.
Office Location: 2014 Bartley Hall
Telephone: 610-519-4370
[Website](#)

Program Economics

Degree Type Bachelor of Business Administration

About

Majoring in Economics provides a rigorous curriculum that will prepare you to think critically in almost every enterprise. This program is designed to promote quantitative thinking while fostering written and verbal communication skills so you are equipped to critically examine the effects of economic factors on market participants in the private and public sectors. Because of the growing complexity of the global economy, there is an increase in the demand for individuals who can provide and communicate quantitative analysis of economic variables and their effects on forecasting sales, managing costs, allocating budgets and choosing investment options. Economics graduates find employment in private industry, consulting, think tanks and policy institutes, the public sector, and academia. Economics is also a perfect preparation for Law School.

Major in Economics leads to a degree of Bachelor of Business Administration.

PRIMARY MAJOR (125 credits)

125 credits are required to complete Economics as the primary major and the Bachelor of Business Administration degree. For students seeking the Bachelor of Business Administration, Honors degree and Economics as the primary major, 126 credits are required.

Economics Major Courses (18 Credits)

Economics major requires **six (6)** unique ECO courses. A major GPA of 2.00 is required.

Note: Economics major elective courses must be 3000 or above. ECO 3108, ECO 3120, and ECO 3130 do not count toward Economics elective courses.

MAT 4550 (Math of Financial Derivatives) may fulfill one of Economics elective courses.

Course	Title	Credits
ECO 2101	Macroeconomic Theory	3
ECO 2102	Microeconomic Theory	3
ECO 3137	Intro to Econometrics	3
Plus three (3) Economics elective courses with course number of 3000 or above		

Core Curriculum Requirements

[89 Credits](#)

Electives

[18 Credits](#)

Degree Credit Summary

- **Major Course Requirements:** 18 Credits
- **Core Curriculum Requirements:** 89 Credits
 - Liberal Arts & Sciences Curriculum (44 cr.)
 - Business Core Requirements (45 cr.)
- **Elective Requirements:** 18 Credits
- **Total Credits:** 125 Credits

Additional Information

- All Arts and Sciences core courses, business core courses (*except VSB 0099 – 0 cr., VSB 1000 – 1 cr. and VSB 1003 – 0 cr.*), major courses, minor courses, and concentration courses must be taken for a letter grade.
- One credit courses {except ACC 2021, ACC 2022, ACC 2023, COM 5300, EGEN 2100 (for Engineering EENT or EESI minor), FIN 2121, MAT 1000, VSB 1000, VSB 2000, VSB 2121, and VSB 3000} may not satisfy degree requirements, including free electives.
 1. Three one credit courses listed below may also satisfy a free elective requirement:
 - ACC 2021 - Intro to Forensics for Accountants
 - ACC 2022 - Intro to Deals Advisory for Accountants
 - ACC 2023 - Intro to Digital & Cyber-Security for Accountants
 2. Three COM 5300 (1 cr.) on different topics may satisfy a non-business or a free elective requirement.
- An “S/U” grade (Satisfactory/Unsatisfactory Option) is only permitted for a non-business elective or free electives. See the [Satisfactory/Unsatisfactory Option](#) section for more information.
- Generally, courses may not be able to satisfy multiple degree requirements within VSB. The only exception is sharing courses between a major and co-major. Please refer to the co-major sections for the sharing details.

SECONDARY MAJOR (18 Credits)

Students who declare Economics as a **secondary major** must complete all economics major courses to earn this major. Secondary economics major courses may also fulfill the free elective requirements.

Plus three (3) Economics elective courses with course number of 3000 or above

Economics Minor – VSB

Chair: Erasmus Kersting, Ph.D.
Associate Chair: Mary Kelly, Ph.D.
Office Location: 2014 Bartley Hall
Telephone: 610-519-4370
[Website](#)

Program Economics
Degree Type Minor

About

Economics addresses how individuals and firms make decisions in a world of scarcity and uncertainty while also presenting opportunities to learn how to analyze the performance and interaction of national economies. The curriculum is designed to promote the development of quantitative skills as well as written and verbal communication abilities, so students are equipped to critically examine the effects of economic factors on market participants in the private and public sectors. Because of the growing complexity of the global economy, there is an increase in the demand for individuals who can provide and communicate quantitative analysis of economic variables and their effects on forecasting sales, managing costs, allocating budgets, and choosing investment options. Economics graduates find employment in private industry, consulting, think tanks and policy institutes, the public sector, and academia. Economics is also a perfect preparation for Law School.

Course Requirements for Economics Minor (9 Credits)

Economics minor requires **three (3)** unique ECO courses to fulfill the minor requirements.

Course	Title	Credits
ECO 2101	Macroeconomic Theory	3
ECO 2102	Microeconomic Theory	3
	3 cr. Economics Elective	3

Note:

1. Economics minor elective course must be 3000 or above. ECO 3108, ECO 3120, and ECO 3130 do not count toward Economics elective courses.
2. MAT 4550 (Math of Financial Derivatives) may fulfill an Economics elective course.
3. Economics minor courses may also fulfill the free elective requirements.

3 cr. Economics Elective

Elective Credits 3

International Concentration for Economics Major

Program Economics
Degree Type Concentration

Chair: Erasmus Kersting, Ph.D.
Associate Chair: Mary Kelly, Ph.D.
Office Location: 2014 Bartley Hall
Telephone: 610-519-4370
[Website](#)

Course Requirements for International Concentration (9 Credits)

The International Concentration is only available for Economics majors. To earn the International Concentration, you must successfully complete three specific ECO courses, at least one of which must be at the 4000 level.

Course	Title	Credits
ECO 3109	International Economics	3
ECO 3114	Environmental Economics	3
ECO 3127	Development Economics	3
ECO 3133	Economics of Healthcare	3
ECO 4203	Pol Eco of Intl Financial Inst	3
ECO 4209	International Macroeconomics	3
	Other Approved Courses with the EINT Course Attribute	

Other Approved Courses with the EINT Course Attribute

Public Policy Concentration for Economics Major

Program [Economics](#)

Degree Type Concentration

Chair: Erasmus Kersting, Ph.D.
Associate Chair: Mary Kelly, Ph.D.
Office Location: 2014 Bartley Hall
Telephone: 610-519-4370
[Website](#)

Course Requirements for Public Policy Concentration (9 Credits)

The Public Policy Concentration is only available for Economics majors. To earn the Public Policy Concentration, you must successfully complete three specific ECO courses, at least one of which must be at the 4000 level.

Course	Title	Credits
ECO 3107	FED Challenge	3
ECO 3111	Hist of Economic Thought	3
ECO 3114	Environmental Economics	3
ECO 3123	Labor Economics	3
ECO 3125	Industr Org & Public Pol	3
ECO 3133	Economics of Healthcare	3
Other Approved Courses with the EPP Course Attribute		

Other Approved Courses with the EPP Course Attribute

Quantitative Business Concentration for Economics Major

Program [Economics](#)

Degree Type Concentration

Chair: Erasmus Kersting, Ph.D.
Associate Chair: Mary Kelly, Ph.D.
Office Location: 2014 Bartley Hall
Telephone: 610-519-4370
[Website](#)

Course Requirements for Quantitative Business Concentration (9 Credits)

The Quantitative Business Concentration is only available for Economics majors. To earn the Quantitative Business Concentration, you must successfully complete three specific ECO courses, at least one of which must be at the 4000 level.

Course	Title	Credits
ECO 3106	Econ of Money & Banking	3
ECO 3118	Women in the Economy	3
ECO 3124	Economics of Sports	3
ECO 3130	Programming for Econ & Fin	3
ECO 3138	Game Theory	3
ECO 4207	Economics of Risk&Uncertainty	3
Other Approved Courses with the EQB Course Attribute		

Other Approved Courses with the EQB Course Attribute

Finance & Real Estate

Applied Quantitative Finance (AQF) Concentration

Chair: Shelly Howton, PhD.
Associate Chair: Amy Kratchman
Associate Chair: Caitlin Dannhauser, PhD.
Office: 2019 Bartley Hall
Telephone: 610-519-7395
[Website](#)

Program [Finance](#)

Degree Type Concentration

About

Students intending to major in Finance, may apply to pursue the Applied Quantitative Finance (AQF) concentration. All interested students should apply to the AQF program director, Stephen

Padovano(stephen.padovano@villanova.edu) by July 15 prior to the start of sophomore year. A second application opportunity will occur for any remaining spots following the Fall semester. The application deadline for the second opportunity is before January 5.

Math Requirements (8 Credits)

If students receive AP credits for MAT 1505, they must take MAT 3100 (Applied Linear Algebra) or MAT 3400 (Linear Algebra) as the replacement course.

Course	Title	Credits
MAT 1505	Calculus II	4
MAT 2705	Diff Equation with Linear Alg4	

Statistics Requirements (6 Credits)

FIN 2360 does not fulfill a FIN EL requirement.

Course	Title	Credits
STAT 4315	Applied Statistical Models	3
FIN 2360	Applied Financial Statistics	3

Computer Science/Analytics (7 Credits)

Course	Title	Credits
FIN 2121	Special Topics in Finance	1
MIS 2020	Prog for Adaptive Prob Solving	3
MIS 3080	Applied Machine Learning	3

Economics Requirement (3 Credits)

Course	Title	Credits
ECO 3137	Intro to Econometrics	3

Specific FIN Electives for Quant Finance Concentration (9 Credits)

Note: FIN 2360, FIN 3350, FIN 3360, and FIN 3470 (6 cr.) do not count toward Finance elective courses.

Course	Title	Credits
FIN 2325	Introduction to Derivatives	3
FIN 2345	Quantitative Asset Mgmt	3
	3 cr. FIN Elective	3

Also note:

1. Students pursuing the Applied Quantitative Finance concentration may not also minor in AIML minor due to similarity of coursework.
2. MIS 2020 is the only course that can be shared between MIS major and Applied Quantitative Finance concentration.
3. Math minors may substitute FIN 2360 with STAT 5700.

3 cr. FIN Elective

Elective Credits 3

Except FIN 2360, FIN 3350, FIN 3360, and FIN 3470 (6 cr.).

Finance Major

Chair: Shelly Howton, PhD.

Associate Chair: Amy Kratchman

Associate Chair: Caitlin Dannhauser, PhD.

Office: 2019 Bartley Hall

Telephone: 610-519-7395

[Website](#)

Program [Finance](#)

Degree Type Bachelor of Business Administration

About

Today's financial and non-financial corporations are actively seeking bright individuals with the right knowledge for making sound financial decisions. As a finance major at VSB, you will learn finance theory alongside of technology, quantitative methods and communication, while also developing an understanding of global and ethical issues. A minor will supplement any business degree by providing greater financial acumen and critical thinking skills that enable you to add value to any organization.

Major in Finance leads to a degree of Bachelor of Business Administration.

PRIMARY MAJOR (125 Credits)

125 credits are required to complete Finance as the primary major and the Bachelor of Business Administration degree. For students seeking the Bachelor of Business Administration, Honors degree and Finance as the primary major, 126 credits are required.

Finance Major Courses (18 Credits)

Finance major requires **six (6)** unique FIN courses. A major GPA of 2.00 is required.

Note: FIN 2360, FIN 3350, FIN 3360, and FIN 3470 (6 cr.) do not count toward Finance elective courses.

Course	Title	Credits
FIN 2114	Intermediate Corp Finance	3
FIN 2227	Fixed Inc Markets & Valuation	3
FIN 2323	Equity Markets and Valuation	3
Plus three (3) Finance elective courses		

Core Curriculum Requirements

[89 Credits](#)

Electives

[18 Credits](#)

Degree Credit Summary

- **Major Course Requirements:** 18 Credits
- **Core Curriculum Requirements:** 89 Credits
 - Liberal Arts & Sciences Curriculum (44 cr.)
 - Business Core Requirements (45 cr.)
- **Elective Requirements:** 18 Credits
- **Total Credits:** 125 Credits

Additional Information

- All Arts and Sciences core courses, business core courses (*except VSB 0099 – 0 cr., VSB 1000 – 1 cr. and VSB 1003 – 0 cr.*), major courses, minor courses, and concentration courses must be taken for a letter grade.
- One credit courses {except ACC 2021, ACC 2022, ACC 2023, COM 5300, EGEN 2100 (for Engineering EENT or EESI minor), FIN 2121, MAT 1000, VSB 1000, VSB 2000, VSB 2121, and VSB 3000} may not satisfy degree requirements, including free electives.
 1. Three one credit courses listed below may also satisfy a free elective requirement:
 - ACC 2021 - Intro to Forensics for Accountants
 - ACC 2022 - Intro to Deals Advisory for Accountants
 - ACC 2023 - Intro to Digital & Cyber-Security for Accountants
 2. Three COM 5300 (1 cr.) on different topics may satisfy a non-business or a free elective requirement.
- An “S/U” grade (Satisfactory/Unsatisfactory Option) is only permitted for a non-business elective or free electives. See the [Satisfactory/Unsatisfactory Option](#) section for more information.
- Generally, courses may not be able to satisfy multiple degree requirements within VSB. The only exception is sharing courses between a major and co-major. Please refer to the co-major sections for the sharing details.

SECONDARY MAJOR (18 Credits)

Students who declare Finance as a **secondary major** must complete all finance major courses to earn this major. Secondary finance major courses may also fulfill the free elective requirements.

Plus three (3) Finance elective courses

Finance Minor

Chair: Shelly Howton, PhD.
Associate Chair: Amy Kratchman
Associate Chair: Caitlin Dannhauser, PhD.
Office: 2019 Bartley Hall
Telephone: 610-519-7395
[Website](#)

Program [Finance](#)
Degree Type Minor

About

Today's financial and non-financial corporations are actively seeking bright individuals with the right knowledge for making sound financial decisions. A minor in finance will supplement any business degree by providing greater financial acumen and critical thinking skills that enable you to add value to any organization.

Course Requirements for Finance Minor (9 Credits)

Finance minor requires **three (3)** unique FIN courses to fulfill the minor requirements.

Course	Title	Credits
FIN 2114	Intermediate Corp Finance	3
FIN 2227	Fixed Inc Markets & Valuation	3
FIN 2323	Equity Markets and Valuation	3

Note: Finance minor courses may also fulfill the free elective requirements.

Real Estate Major

Chair: Shelly Howton, PhD.
Associate Chair: Benjamin Scheick, PhD.

Office: 2019 Bartley Hall
Telephone: 610-519-7395
[Website](#)

Program [Real Estate](#)
Degree Type Bachelor of Business Administration

About

As a Real Estate major at VSB, you will develop an understanding of real estate investment, development, modeling, capital markets, accounting and law, as well as the role of real estate in corporate strategy and the global economy. The curriculum incorporates site visits, case studies, expert perspectives and industry-standard software tools so that you learn how the theory ties to practice. Your course projects will include completing valuations for actual retail centers and office buildings, and a capstone development project that includes site selection, market analysis, project completion and resale.

Major in Real Estate leads to a degree of Bachelor of Business Administration.

PRIMARY MAJOR (125 Credits)

125 credits are required to complete Real Estate as the primary major and the Bachelor of Business Administration degree. For students seeking the Bachelor of Business Administration, Honors degree and Real Estate as the primary major, 126 credits are required.

Real Estate Major Courses (18 Credits)

Real Estate major requires **six (6)** unique major courses. A major GPA of 2.00 is required.

Note: RES 3001 does not count toward Real Estate elective requirements.

Course	Title	Credits
RES 2150	Real Estate Fundamentals	3
RES 2250	Real Estate Law	3
RES 3150	Real Estate Investments	3
RES 3250	Advanced Real Estate Modeling	3

Plus two (2) of the following:

Course	Title	Credits
ACC 2410	Accounting for Real Estate	3
ECO 3140	Urban Economics	3
FIN 2350	Real Estate Capital Markets	3
RES 2340	Contemp Topics in Real Estate	3
RES 4150	Real Estate Development	3

Core Curriculum Requirements

[89 Credits](#)

Electives

[18 Credits](#)

Degree Credit Summary

- **Major Course Requirements:** 18 Credits
- **Core Curriculum Requirements:** 89 Credits
 - Liberal Arts & Sciences Curriculum (44 cr.)
 - Business Core Requirements (45 cr.)
- **Elective Requirements:** 18 Credits
- **Total Credits:** 125 Credits

Additional Information

- All Arts and Sciences core courses, business core courses (*except VSB 0099 – 0 cr., VSB 1000 – 1 cr. and VSB 1003 – 0 cr.*), major courses, minor courses, and concentration courses must be taken for a letter grade.
- One credit courses {except ACC 2021, ACC 2022, ACC 2023, COM 5300, EGEN 2100 (for Engineering EENT or EESI minor), FIN 2121, MAT 1000, VSB 1000, VSB 2000, VSB 2121, and VSB 3000} may not satisfy degree requirements, including free electives.
 1. Three one credit courses listed below may also satisfy a free elective requirement:
 - ACC 2021 - Intro to Forensics for Accountants
 - ACC 2022 - Intro to Deals Advisory for Accountants
 - ACC 2023 - Intro to Digital & Cyber-Security for Accountants
 2. Three COM 5300 (1 cr.) on different topics may satisfy a non-business or a free elective requirement.
- An “S/U” grade (Satisfactory/Unsatisfactory Option) is only permitted for a non-business elective or free electives. See the [Satisfactory/Unsatisfactory Option](#) section for more information.
- Generally, courses may not be able to satisfy multiple degree requirements within VSB. The only exception is sharing courses between a major and co-major. Please refer to the co-major sections for the sharing details.

SECONDARY MAJOR (18 Credits)

Students who declare Real Estate as a **secondary major** must complete all real estate major courses to earn this major. Secondary real estate major courses may also fulfill the free elective requirements.

Real Estate Minor

Chair: Shelly Howton, PhD.

Associate Chair: Benjamin Scheick, PhD.

Office: 2019 Bartley Hall
Telephone: 610-519-7395
[Website](#)

Program Real Estate

Degree Bachelor of Business
Type Administration

About

As a Real Estate minor at VSB, you will develop an understanding of real estate investment, development, modeling, capital markets, accounting and law, as well as the role of real estate in corporate strategy and the global economy. The curriculum incorporates site visits, case studies, expert perspectives and industry-standard software tools so that you learn how the theory ties to practice. Your course projects will include completing valuations for actual retail centers and office buildings, and a capstone development project that includes site selection, market analysis, project completion and resale.

Course Requirements for Real Estate Minor (9 Credits)

Real Estate minor requires **three (3)** unique courses to fulfill the minor requirements.

Course	Title	Credits
RES 2150	Real Estate Fundamentals	3
RES 3150	Real Estate Investments	3

Plus one Real Estate elective course from the following:

Course	Title	Credits
ACC 2410	Accounting for Real Estate	3
ECO 3140	Urban Economics	3
FIN 2350	Real Estate Capital Markets	3
RES 2250	Real Estate Law	3
RES 2340	Contemp Topics in Real Estate	3

Note:

1. RES 3001 does not count toward Real Estate minor.
2. Real Estate minor courses may also fulfill the free elective requirements.

Management & Operations

Analytics & Artificial Intelligence Co-Major

Chair: Kevin Clark PhD.,
Carmen and Sharon Danella Endowed Professor
in Business Innovation
Associate Chair: Alicia Strandberg, PhD.
Office: 2083 Bartley Hall
Telephone: 610-519-6924
[Website](#)

Program Analytics & Artificial Intelligence

Degree Bachelor of Business
Type Administration

About

A co-major in Analytics & Artificial Intelligence (AI) enriched with AI coverage, equips you with a deep understanding of business intelligence and advanced analytic tools such as decision modeling and analysis, and data mining that businesses need today. You will build strong analytical skills and the ability to create AI-enhanced solutions that boost business performance and value across industries.

The Analytics & Artificial Intelligence co-major must be taken in conjunction with a major in Accounting, Economics, Finance, Management, Management Information Systems, Marketing, or Real Estate.

Course Requirements for Analytics & Artificial Intelligence Co-Major (15 Credits)

Course	Title	Credits
MGT 3170	Data Mining and AI	3
MGT 4170	Decision Analytics & AI	3

Plus Three (3) Analytics & Artificial Intelligence elective courses from the following:

Course	Title	Credits
ECO 3137	Intro to Econometrics	3
FIN 2360	Applied Financial Statistics	3
MGT 3600	Sports Analytics	3
	MIS 3050 or MIS 2030	3
MIS 3060	Bus Intelligence and Perf Mgmt	3
MKT 2240	Marketing Analytics	3
	Other Approved Electives	

Note:

1. Only **one course** of the Analytics & Artificial Intelligence co-major may “double dip” to also fulfill another VSB major.

2. For students pursuing both Analytics & Artificial Intelligence and Master of Science in Business Analytics (MSBA) programs:

- MSA 8105 (Programming in R & Python) may fulfill an Analytics & Artificial Intelligence elective.
- In addition, one of the following may count toward an Analytics & Artificial Intelligence requirement:
 - CSC 4480 (Principles of Database Systems) or MSA 8110 (Data Models & Struct Analysis) may fulfill MIS 2030. *Note: only one out of these three courses may satisfy an Analytics & Artificial Intelligence co-major requirement.*
 - MSA 8240 (Business Intelligence) may fulfill MIS 3060. *Note: only one out of these two courses may satisfy an Analytics & Artificial Intelligence co-major requirement.*

MIS 3050 or MIS 2030

Elective Credits 3

Course	Title	Credits
MIS 3050	CRM and Data Analytics	3
MIS 2030	Database Management	3

Other Approved Electives

Analytics & Artificial Intelligence Minor

Chair: Kevin Clark PhD.

Carmen and Sharon Danella Endowed Professor in Business Innovation

Associate Chair: Alicia Strandberg, PhD.

Office: 2083 Bartley Hall

Telephone: 610-519-6924

[Website](#)

Program [Analytics & Artificial Intelligence](#)
Degree Type Minor

About

A minor in Analytics & Artificial Intelligence (AI), enriched with AI coverage, equips you with a deep understanding of business intelligence and advanced analytic tools such as decision modeling and analysis, and data mining that businesses need today. You will build strong analytical skills and the ability to create AI-enhanced solutions that boost business performance and value across industries.

Course Requirements for Analytics & AI Minor (9 Credits)

Analytics & Artificial Intelligence minor requires **three (3)** unique business courses to fulfill the minor requirements.

Course	Title	Credits
MGT 3170	Data Mining and AI	3
MGT 4170	Decision Analytics & AI	3

Plus one (1) Analytics & Artificial Intelligence elective course choosing from:

Course	Title	Credits
ECO 3137	Intro to Econometrics	3
FIN 2360	Applied Financial Statistics	3
MGT 3600	Sports Analytics	3
MIS 2030	Database Management	3
MIS 3050	CRM and Data Analytics	3
MIS 3060	Bus Intelligence and Perf Mgmt	3
MKT 2240	Marketing Analytics	3

Note:

1. Analytics & Artificial Intelligence minor courses may also fulfill the free elective requirements.
2. For students pursuing both [Analytics & Artificial Intelligence](#) and [Master of Science in Business Analytics](#) (MSBA) programs:
 - MSA 8105 (Programming in R & Python) may fulfill an Analytics & Artificial Intelligence elective.
 - In addition, one of the following may count toward an Analytics & Artificial Intelligence requirement:
 - MSA 8110 (Data Models & Struct Analysis) may fulfill MIS 2030.
Note: only one out of these two courses may satisfy an Analytics & Artificial Intelligence minor requirement.
 - MSA 8240 (Business Intelligence) may fulfill MIS 3060.
Note: only one out of these two courses may satisfy an Analytics & Artificial Intelligence minor requirement.
3. CSC 4480 (Principles of Database Systems) **may not** fulfill an Analytics & Artificial Intelligence requirement.

Consulting Minor for Non-Management Major

Chair: Kevin Clark, PhD.
 Carmen and Sharon Danella Endowed Professor
 in Business Innovation
 Associate Chair: Ward Utter
 Office: 2083 Bartley Hall
 Telephone: 610-519-6924
[Website](#)

Program [Consulting](#)
Degree Type Minor

About

Many want to pursue a career in consulting and want more exposure to the expectations and demands of this industry. The Consulting minor, open only to non-Management majors, combines the theoretical knowledge of management with consulting best practices and real-world consulting challenges to help prepare you for this field.

Course Requirements for Consulting Minor for Non-Management Major (9 Credits)

Consulting Minor for Non-Management Major requires **three (3)** unique business courses to fulfill the minor requirements.

Course	Title	Credits
MGT 3070	Solving Complex Bus Problems	3
MGT 3080	Management Consulting Practicu	3
VSF 3900	Innovation & Design Practicum	3

Note: Consulting minor courses may also fulfill the free elective requirements.

Entrepreneurial Leadership and Innovation Minor

Chair: Kevin Clark, PhD.
 Carmen and Sharon Danella Endowed Professor
 in Business Innovation
 Associate Chair: Ward Utter
 Office: 2083 Bartley Hall
 Telephone: 610-519-6924
[Website](#)

Program [Entrepreneurial Leadership and Innovation](#)
Degree Type Minor

About

The Entrepreneurial Leadership and Innovation Minor (ELI) is designed for any VSB student seeking to develop knowledge and skillsets in entrepreneurial thinking, innovation, creativity, and design principles. The program is a mixture of courses and experiential elements designed to provide students with state-of-the-art instruction on these topics, and exposure to practice through a series of experiential programs from which they choose. All students who wish to develop agility in creative and innovative problem-solving should consider the minor. The minor is particularly suitable for students interested in becoming an entrepreneur, having a career in creative sectors such as fashion, being an effective agent of change within a corporate or non-profit structure, running a family business, or consulting for a firm or as an independent contractor.

Course Requirements for Entrepreneurial Leadership and Innovation Minor (9 Credits)

Entrepreneurial Leadership and Innovation minor requires **three (3)** unique courses to fulfill the minor requirements.

Course	Title	Credits
VSB 3900	Innovation & Design Practicum	3
	VSB 3910 (Entrepreneurship Foundations)	3
	MGT 3320 (Independent Study) or Management (Internship)	3
	Required Experiential Component	0

Note: Entrepreneurial leadership and innovation minor courses may also fulfill the free elective requirements.

VSB 3910 (Entrepreneurship Foundations)

Elective Credits 3

This course will introduce students to foundational concepts, frameworks, and skills essential for identifying entrepreneurial

opportunities, evaluating business ideas, developing business plans, and navigating the challenges of new ventures. A key component of the course will be hands-on learning, where students actively develop a business plan for a new venture.

MGT 3320 (Independent Study) or Management (Internship)

Elective Credits 3

Approved deep immersion experiences (3 credits Internship or Independent Study) are those that require a significant commitment of time by the student and which either contain an academic component or are combined within an internship or independent study. Examples include: approved internship for credit, the European Innovation Academy, Villanova in the Valley, or Villanova at the Agency with approved independent study. The list of deep immersions may expand.

Required Experiential Component

Elective Credits 0

Students need to fulfill the experiential component by accumulating of 20 points from shorter experiences which may include: attendance at speaker events or panel discussions, field trips to the Philadelphia innovation ecosystem, participation in the Villanova Pitch Day competition, the Villanova Idea Challenge, and other approved experiences. Each semester, a menu of approved experiences and the point value for completion of each will be provided on Handshake and communicated to declared minors by the academic department.

Global Leadership Fellows Program

The Global Leadership Fellows Program (GLF) is designed to provide students with an opportunity to emphasize and integrate global leadership throughout their undergraduate experience. GLF includes special curricular and extracurricular offerings that encourage increased international study and support the pursuit of careers in global

business. Students who fulfill the GLF program requirements are awarded a certificate that names them life-long VSB Global Leadership Fellows. GLF students will be paired with a mentor from the Moran Center for Global Leadership Advisory Council.

Students who engage in the GLF Program will develop global leadership skills, learn to navigate the complexities of conducting business internationally, and gain an understanding of how specific business disciplines manifest in different cultural settings. In addition to acquiring greater international experience and enhancing resumes, participants will be better positioned to succeed in international business careers.

Program Requirements:

- Satisfy all requirements for the International Business (IB) co-major.
- Successfully complete an additional Villanova approved international experience beyond the IB co-major. Please refer to the IB co-major section for the qualification of an international experience.
- Successfully complete the following courses:
 - MGT 2360 *Global Leadership*
 - Honors section of VSB 4002 *Strategic Thinking and Implementation*, emphasizing global context (Spring semester only)
- Confirm graduation requirements with your academic advisor and with Kim Cahill, GLF Program Advisor.

Interested students are encouraged to apply through the Moran Center for Global Leadership (MCGL). **For information, please contact Kim Cahill, Director, MCGL, 2059 Bartley Hall**
kimberly.cahill@villanova.edu
www.villanova.edu/MCGL.

Program Global Leadership Fellows Program
Degree Type Program

International Business Co-Major

Chair: Kevin Clark, PhD.
 Carmen and Sharon Danella Endowed Professor

in Business Innovation
 Associate Chair: Ward Utter
 Office: 2083 Bartley Hall
 Telephone: 610-519-6924
[Website](#)

Program International Business
Degree Bachelor of Business
Type Administration

About

As a result of the extraordinary changes brought on by globalization, companies need new kinds of managers - who not only have strong business skills, but who are comfortable managing and communicating across cultures. In the International Business Co-major, you will learn the potential and risks of new markets and develop the ability to think globally while acting locally.

The International Business co-major consists of five courses (15 credits) as outlined below plus an immersion requirement. The International Business co-major must be taken in conjunction with a primary major in Accounting, Economics, Finance, Management, Management Information Systems, Marketing or Real Estate.

Course Requirements for International Business Co-Major (15 Credits)

Course	Title	Credits
MGT 2350	Global Business Management	3

Plus four (4) International Business elective courses (listed below):

Note: For MGT and IB major combination: including MGT 2350, up to 9 credits of international MGT courses may be shared; For ECC and IB major combination: up to 6 credits of international ECO courses may be shared.

Course	Title	Credits
ACC 2420	International Accounting	3
BL 2160	International Business Law	3
ECO 3109	International Economics	3
ECO 3127	Development Economics	3
ECO 4203	Pol Eco of Intl Financial Inst	3
ECO 4209	International Macroeconomics	3
FIN 2335	Intl Financial Management	3
MGT 2208	International Topics	3
MGT 2352	Business in Emerging Markets	3
MGT 2360	Global Leadership	3
MGT 2370	Global Business Ethics	3
MKT 2280	Global Marketing	3
	Other Approved Elective (Global, Cultural or Language)	3

Immersion Requirement for International Business Co-major

To receive the IB Co-major students must complete **one of the following** immersion requirements: 1) Approved study abroad experience(s) as detailed below; **or** 2) Demonstrated foreign language fluency as detailed below.

1. Study Abroad Option:

IB Co-majors may meet the immersion requirement through Study Abroad. For single study abroad, the total time abroad must be five weeks or more and contain at least 6 credits of coursework (internships for credit count). If doing two study abroad programs, the total time abroad must be four weeks or more, and each program must contain at least 3 credits of coursework.

For example, a student planning a single study abroad experience could fulfill the IB Co-major requirement either by completing a summer program of at least five weeks duration or a semester program. For those students planning multiple study abroad experiences, two “Maymester” programs would fulfill the requirement or any combination of one “Maymester” and one longer program. For students interested in innovation, the three-week European Innovation Academy also qualifies as one “Maymester” format course.

2. Foreign Language Option:

IB co-majors may meet the immersion requirement through language course enrollments, or by demonstrating appropriate language proficiency. Students meet this requirement by demonstrating intermediate proficiency (completion of Intermediate II) in a foreign language by:

a) successfully completing foreign language courses at Villanova through intermediate level (except Arabic, Chinese, Hebrew, Hindustani, Japanese, or Russian which may complete at the level of Introduction II) or credits earned through a Villanova-approved university program; or

b) by achieving a passing score at the intermediate II level on an approved

language test as determined by the relevant language departments in the College of Liberal Arts and Sciences.

Non-native English speakers demonstrate language proficiency by virtue of completion of the English language proficiency test (TOEFL/IELTS) upon admission the University.

Other Approved Elective (Global, Cultural or Language)

Elective Credits 3

In addition to IB electives listed above taken at Villanova or abroad, students may apply up to 3 credits on a cultural or global topic toward the IB elective requirement from any other non-VSB core curriculum course completed in another country as part of a Villanova University approved study abroad program.

Or students may apply a foreign language course at any level (taken at Villanova or through a Villanova-approved university program) towards the IB elective requirement. Credit by Examination, A level, AP, or IB course **may not** satisfy this requirement.

These courses **may not** double count towards VSB core curriculum requirements.

International Business Minor

Chair: Kevin Clark, PhD.
Carmen and Sharon Danella Endowed Professor in Business Innovation
Associate Chair: Ward Utter
Office: 2083 Bartley Hall
Telephone: 610-519-6924
[Website](#)

Program [International Business](#)
Degree Type Minor

About

As a result of extraordinary changes brought on by globalization, companies need new kinds of managers—who not only have strong business skills, but who are comfortable managing and communicating across cultures. The International Business Minor will supplement a business degree by providing cross-cultural skills valued by global companies.

Course Requirements for International Business Minor (9 Credits)

International Business minor requires **three (3)** unique business courses to complete the minor requirements.

Course	Title	Credits
MGT 2350	Global Business Management	3

Plus any two (2) International Business elective courses (listed below):

Course	Title	Credits
ACC 2420	International Accounting	3
BL 2160	International Business Law	3
ECO 3109	International Economics	3
ECO 3127	Development Economics	3
ECO 4203	Pol Eco of Intl Financial Inst	3
ECO 4209	International Macroeconomics	3
FIN 2335	Intl Financial Management	3
MGT 2208	International Topics	3
MGT 2352	Business in Emerging Markets	3
MGT 2360	Global Leadership	3
MGT 2370	Global Business Ethics	3
MKT 2280	Global Marketing	3
	Other Approved IB Elective	3

Note: IB minor courses may also fulfill the free elective requirements.

Other Approved IB Elective

Elective Credits 3

With the exception of VSB core curriculum courses, students may apply up to 3 credits toward the IB elective requirement from any

course in a business discipline (must on a global topic) completed in another country as part of a VU approved study abroad program.

Management Consulting Concentration for Management Major

Chair: Kevin Clark, PhD.
Carmen and Sharon Danella Endowed Professor in Business Innovation
Associate Chair: Ward Utter
Office: 2083 Bartley Hall
Telephone: 610-519-6924
[Website](#)

Program [Management](#)
Degree Type Concentration

About

Many want to pursue a career in management consulting and want more exposure to the expectations and demands of this industry. The Consulting concentration, open only to Management majors, combines the theoretical knowledge of management with consulting best practices and real-world consulting challenges to help prepare you for this field.

In addition to completing the requirements for a Management major, you can also earn a consulting concentration by completing MGT 3070 and MGT 3080.

Course Requirements for Management Consulting Concentration (6 Credits)

The Management Consulting Concentration is only available for Management majors.

Course	Title	Credits
MGT 3070	Solving Complex Bus Problems	3
MGT 3080	Management Consulting Practicu	3

Management Major

Chair: Kevin Clark, PhD.
Carmen and Sharon Danella Endowed Professor in Business Innovation
Associate Chair: Ward Utter
Office: 2083 Bartley Hall
Telephone: 610-519-6924
[Website](#)

Program [Management](#)
Degree Type Bachelor of Business Administration

About

The study of management provides a distinct advantage to almost any discipline or career path. As a Management major, you will learn tools for effective teamwork, leadership, organizational dynamics, organizational culture, strategic planning, change management and human resource management. You will also find the opportunity to develop and refine the analytical, quantitative and communication skills that are critical for a successful professional career, to start a company, or to pursue graduate study in business or law.

Major in Management leads to a degree of Bachelor of Business Administration.

PRIMARY MAJOR (125 Credits)

125 credits are required to complete Management as the primary major and the Bachelor of Business Administration degree. For students seeking the Bachelor of Business Administration, Honors degree and Management as the primary major, 126 credits are required.

Management Major Courses (18 Credits)

Management major requires **six (6)** unique MGT courses. A major GPA of 2.00 is required.

Note: 1. MGT 3300 and MGT 3310 do not count toward Management electives.

2. VSB 2100 (Socially Just Business Ldrship) also fulfills one of the Management requirements.

Course	Title	Credits
MGT 2155	Organizational Behavior	3
VSB 3900	Innovation & Design Practicum	3
Plus four (4) Management elective courses		

Core Curriculum Requirements

[89 Credits](#)

Electives

[18 Credits](#)

Degree Credit Summary

- **Major Course Requirements:** 18 Credits
- **Core Curriculum Requirements:** 89 Credits
 - Liberal Arts & Sciences Curriculum (44 cr.)
 - Business Core Requirements (45 cr.)
- **Elective Requirements:** 18 Credits
- **Total Credits:** 125 Credits

Additional Information

- All Arts and Sciences core courses, business core courses (*except VSB 0099 – 0 cr., VSB 1000 – 1 cr. and VSB 1003 – 0 cr.*), major courses, minor courses, and concentration courses must be taken for a letter grade.
- One credit courses {except ACC 2021, ACC 2022, ACC 2023, COM 5300, EGEN 2100 (for Engineering EENT or EESI minor), FIN 2121, MAT 1000, VSB 1000, VSB 2000, VSB 2121, and VSB 3000} may not satisfy degree requirements, including free electives.
 1. Three one credit courses listed below may also satisfy a free elective requirement:
 - ACC 2021 - Intro to Forensics for Accountants
 - ACC 2022 - Intro to Deals Advisory for Accountants
 - ACC 2023 - Intro to Digital & Cyber-Security for Accountants
 2. Three COM 5300 (1 cr.) on different topics may satisfy a non-business or a free elective requirement.
- An “S/U” grade (Satisfactory/Unsatisfactory Option) is only permitted for a non-business elective or free electives. See the [Satisfactory/Unsatisfactory Option](#) section for more information.
- Generally, courses may not be able to satisfy multiple degree requirements within VSB. The only exception is sharing courses between a major and co-major. Please refer to the co-major sections for the sharing details.

SECONDARY MAJOR (18 Credits)

Students who declare Management as a **secondary major** must complete all management major courses to earn this major. Secondary management major courses may also fulfill the free elective requirements.

Plus four (4) Management elective courses

Marketing & Business Law

Business Development Concentration for Marketing Major

Program [Marketing](#)

Degree Type Concentration

Chair: Jeremy Kees, PhD.

Associate Chair: Timothy McCulloch

Office: 3015 Bartley Hall

Telephone: 610-519-4350

[Website](#)

In addition to completing the requirements for a Marketing major, you can also earn a concentration in Business Development by completing three courses listed below.

Course Requirements for Business Development Concentration (9 Credits)

The Business Development Concentration is only available for Marketing majors.

Course	Title	Credits
MKT 2224	Professional Selling	3
MKT 2225	Strategic Account Management	3
MKT 2120 or MKT 2349		3

Note: the course title for MKT 2349 must be Top: Sales for Social Impact

MKT 2120 or MKT 2349

Elective Credits 3

Course	Title	Credits
MKT 2120	Buyer Behavior	3
MKT 2349	Special Topics in Marketing	3

Business Law & Corporate Governance Minor

Chair: Jeremy Kees, PhD.

Associate Chair: Timothy McCulloch

Office: 3015 Bartley Hall

Telephone: 610-519-4350

[Website](#)

Program [Business Law](#)

Degree Type Minor

About

Minoring in Business Law & Corporate Governance will enable you to develop a robust understanding of the legal and ethical impact of business practices and the global economy. You will learn about contracts, commercial transactions, forms of business entities and other legal issues. You also learn how business entities are governed and managed and the rights and obligations of the entities' stakeholders. Most importantly, Business Law & Corporate Governance minors are presented with a focus on ethical decision making and socially responsible behavior.

Course Requirements for Business Law & Corporate Governance Minor (9 Credits)

Business Law & Corporate Governance minor requires **three (3)** unique business courses to fulfill the minor requirements.

Three (3) courses listed below; two must be Business Law (BL) courses, one of which must be either BL 2135 or BL 2185.

Course	Title	Credits
ACC 2360	Federal Income Tax	3
BL 2135	Bus. Entity Law, Gov, Ethics	3
BL 2149	Cont. Topics in Business Law	3
BL 2160	International Business Law	3
BL 2165	Employment Law	3
BL 2175	Intellectual Property Law	3
BL 2185	Law of Contracts & Sales	3
MGT 2370	Global Business Ethics	3
RES 2250	Real Estate Law	3

Note: Business Law & Corporate Governance minor courses may also fulfill the free elective requirements.

Digital Marketing Concentration for Marketing Major

Chair: Jeremy Kees, PhD.
Associate Chair: Timothy McCulloch
Office: 3015 Bartley Hall
Telephone: 610-519-4350
[Website](#)

In addition to completing the requirements for a Marketing major, you can also earn a concentration in Digital Marketing by completing three courses listed below.

Program [Marketing](#)
Degree Type Concentration

Course Requirements for Digital Marketing Concentration (9 Credits)

The Digital Marketing Concentration is only available for Marketing majors.

Course	Title	Credits
MKT 2240	Marketing Analytics	3
MKT 2290	Digital Marketing	3
	MKT 2285 or MKT 2349	3

Note: the course title for MKT 2349 must be Top: Advanced Digital Marketing

MKT 2285 or MKT 2349

Elective Credits 3

Course	Title	Credits
MKT 2285	Social Media Marketing	3
MKT 2349	Special Topics in Marketing	3

Marketing Major

Chair: Jeremy Kees, PhD.
Associate Chair: Timothy McCulloch
Office: 3015 Bartley Hall
Telephone: 610-519-4350
[Website](#)

Program [Marketing](#)
Degree Type Bachelor of Business Administration

About

Marketing is the lifeline that connects organizations with consumers. The discipline covers a broad range of areas from knowledge of human behavior and market research to strategy and creative expression to drive a desired outcome. As a Marketing student, you will learn how to access real-time information, analyze data, solve problems and communicate results. You will also learn how to develop and implement consumer and business-to-business products and services, and how to strategically manage product pricing, promotion and distribution.

Plus, Marketing majors have the opportunity to further specialize with concentrations in Digital Marketing and in Business Development.

Major in Marketing leads to a degree of Bachelor of Business Administration.

PRIMARY MAJOR (125 Credits)

125 credits are required to complete Marketing as the primary major and the Bachelor of Business Administration degree. For students seeking the Bachelor of Business Administration, Honors degree and Marketing as the primary major, 126 credits are required.

Marketing Major Courses (18 Credits)

Marketing major requires **six (6)** unique MKT courses. A major GPA of 2.00 is required.

Note: MKT 3450 and MKT 3470 do not count toward Marketing elective courses.

CHE 2900 (Global Pharmaceutical Industry) may fulfill one of the marketing major electives.

Course	Title	Credits
MKT 2197	Marketing Research	3
MKT 2375	Marketing Management	3

Plus four (4) additional Marketing elective courses from the following list:

Course	Title	Credits
MKT 2120	Buyer Behavior	3
MKT 2224	Professional Selling	3
MKT 2225	Strategic Account Management	3
MKT 2240	Marketing Analytics	3
MKT 2270	Brand Management	3
MKT 2280	Global Marketing	3
MKT 2285	Social Media Marketing	3
MKT 2290	Digital Marketing	3
MKT 2349	Special Topics in Marketing	3

Core Curriculum Requirements

[89 Credits](#)

Electives

[18 Credits](#)

Degree Credit Summary

- **Major Course Requirements:** 18 Credits
- **Core Curriculum Requirements:** 89 Credits
 - Liberal Arts & Sciences Curriculum (44 cr.)
 - Business Core Requirements (45 cr.)
- **Elective Requirements:** 18 Credits
- **Total Credits:** 125 Credits

Additional Information

- All Arts and Sciences core courses, business core courses (*except VSB 0099 – 0 cr., VSB 1000 – 1 cr. and VSB 1003 – 0 cr.*), major courses, minor courses, and concentration courses must be taken for a letter grade.
- One credit courses {except ACC 2021, ACC 2022, ACC 2023, COM 5300, EGEN 2100 (for Engineering EENT or EESI minor), FIN 2121, MAT 1000, VSB 1000, VSB 2000, VSB 2121, and VSB 3000} may not satisfy degree requirements, including free electives.
 1. Three one credit courses listed below may also satisfy a free elective requirement:
 - ACC 2021 - Intro to Forensics for Accountants
 - ACC 2022 - Intro to Deals Advisory for Accountants
 - ACC 2023 - Intro to Digital & Cyber-Security for Accountants
 2. Three COM 5300 (1 cr.) on different topics may satisfy a non-business or a free elective requirement.
- An “S/U” grade (Satisfactory/Unsatisfactory Option) is only permitted for a non-business elective or free electives. See the [Satisfactory/Unsatisfactory Option](#) section for more information.
- Generally, courses may not be able to satisfy multiple degree requirements within VSB. The only exception is sharing courses between a major and co-major. Please refer to the co-major sections for the sharing details.

SECONDARY MAJOR (18 Credits)

Students who declare Marketing as a **secondary major** must complete all marketing major courses to earn this major. Secondary marketing major courses may also fulfill the free elective requirements.

Marketing Minor

Chair: Jeremy Kees, PhD.
Associate Chair: Timothy McCulloch

Office: 3015 Bartley Hall
Telephone: 610-519-4350
[Website](#)

Program [Marketing](#)
Degree Type Minor

About

Marketing is the lifeline that connects organizations with consumers. The discipline covers a broad range of areas from knowledge of human behavior and market research to strategy and creative expression to drive a desired outcome. As a Marketing minor will supplement a business degree by providing you more depth in areas where marketing plays a significant role in the achievement of an organization's goals. A large percentage of business professionals, regardless of their undergraduate major, will either rotate through marketing positions during their careers or spend most, if not all, of their careers in marketing.

Course Requirements for Marketing Minor (9 Credits)

Marketing minor requires **three (3)** unique MKT courses to fulfill the minor requirements.

Course	Title	Credits
	3 cr. MKT Minor Option Course	3
	Two (2) Marketing elective courses	6

Note:

1. MKT 2375, MKT 3450, and MKT 3470 (6 cr.) do not count toward Marketing minor requirements.
2. CHE 2900 (Global Pharmaceutical Industry) may fulfill one of the marketing elective courses.
3. Marketing minor courses may also fulfill the free elective requirements.

3 cr. MKT Minor Option Course

Elective Credits 3

MKT 2120 Buyer Behavior, **OR**
MKT 2197 Marketing Research

Two (2) Marketing elective courses

Elective Credits 6

Programs for Non-Business Majors

Academic Year Business Minor

The **Academic Year Business Minor** is designed for full-time undergraduates enrolled in other Villanova colleges (*Note: Due to scheduling conflicts, Nursing students should consider the [Summer Business Institute](#) program instead of the Academic Year Business Minor program*). Students admitted to the program take classes with VSB students during the academic year. A minimum of four semesters are typically required to complete the minor.

Applications for the Academic Year Business Minor program are reviewed once per year after spring grades are posted. Acceptance is determined on a competitive basis. Students are required to attend an information session held by VSB before applying. Dates and times of information sessions are posted during the fall and spring semesters on the program's website.

Applications are available online at business.villanova.edu. The application deadline is April 15 and students are notified of acceptance in early June. Any questions should be directed to The Clay Center at (610) 519-5532 or by email at businessminor@villanova.edu.

All courses must be taken at Villanova University, with the exception of statistics, which may be taken elsewhere. Note the statistics course must be pre-approved by the applicant's college, as the equivalent of STAT 1235 or STAT 1430 or STAT 4310.

Program [Non-Business Major](#)
Degree Type Minor

Course Requirements for the Academic Year Business Minor are:

Course	Title	Credits
ECO 1001	Intro to Micro	3
ECO 1002	Intro to Macro	3
VSF 1000	Information Technology	1
VSF 1015	Business Dynamics	3
	VSF Option Course	3
VSF 2004	Financial Accounting	3
VSF 2009	Principles of Finance	3
VSF 2020	Competitive Effectiveness	6

The statistics requirement may be fulfilled by one of the following:

Course	Title	Credits
STAT 1235	Intro Statistics II	3
STAT 1430	Business Statistics	4
STAT 4310	Stat Methods	3

Credits from the Academic Year Business Minor program may apply to the degree requirements in the student's primary academic college. Students should confirm with their primary academic advisor.

Students who successfully complete the Academic Year Business Minor program may then pursue an additional VSB minor or courses in Accounting, Analytics & Artificial Intelligence, Artificial Intelligence and Machine Learning, Business Law and Corporate Governance, Consulting, Finance, International Business, Management Information Systems, Marketing, or Real Estate. **Prior to enrolling in any VSB discipline-specific minor course(s), VSB approval is required and additional pre-req coursework may also be required.** See minor course requirements listed under *Academic Programs* for more detailed information.

VSF Option Course

Elective Credits 3

Choice of one (1) of the following VSB core courses, note the pre-requisites.

Course	Title	Credits
VSF 2006	Introduction to MIS	3
VSF 2007	Corp Respon & Regulation	3

Global Business Concentration

The Moran Center for Global Leadership oversees the Global Business Concentration (GBC) with guidance from a GBC Committee of faculty and staff representatives from VSB. All non-VSB students are invited to apply to the GBC after successful completion of ECO 1001 (Microeconomics) and ECO 1002 (Macroeconomics). The application process is competitive. Please apply online [click here](#).

Contact Moran Center for Global Leadership
mcgl@villanova.edu 2059 Bartley Hall.

Program Non-Business Major Degree Type Concentration

Course Requirements for Global Business Concentration

Course	Title	Credits
MGT 2350	Global Business Management	3
ECO 3108	Global Political Econ	3

Plus one of the following options:

Course	Title	Credits
	Two (2) international business electives	
	One (1) international business elective combined with an approved international experience	

Note: Economics majors must take one IB elective outside of ECO courses.

International Business Electives:

Or other global business courses by permission of department chair

Course	Title	Credits
BL 2160	International Business Law	3
ECO 3109	International Economics	3
ECO 3127	Development Economics	3
ECO 4203	Pol Eco of Intl Financial Inst	3
ECO 4209	International Macroeconomics	3
MGT 2208	International Topics	3
MGT 2352	Business in Emerging Markets	3
MGT 2360	Global Leadership	3
MGT 2370	Global Business Ethics	3
MKT 2280	Global Marketing	3

Foreign Language Requirement

Foreign Language Competency fulfilled by one of the following:

- Successful completion of Foundations II or Intermediate II if French, Greek, Italian, Latin, or Spanish is chosen.
- Successful completion of Foundations II or Introduction II if Arabic, Chinese, Hebrew, Hindustani, Japanese or Russian.
- Placement beyond intermediate II on a language placement exam administered by the Classical & Modern Languages Department

Language requirements are waived for all international students whose first language is not English.

Students are encouraged to take GIS 2000 - Intro to Global Studies or other international social science courses.

Two (2) international business electives

Note: Economics majors must take one IB elective outside of ECO courses.

One (1) international business elective combined with an approved international experience

Study, research, internship or volunteer experience – earning a minimum of 6 credits abroad

Villanova Summer Business Academy Certificate Program

VSB's Summer Business Academy (SBA) is a full-time, 4-week, cohort-based summer program created exclusively for non-business students. The 6-credit online certificate program is designed to be completed in one summer with peers from other non-business majors. The program is targeted to students who would benefit from, and have an interest in, a credentialed, introductory business education program. The program is conducted during Summer Session 1 (end May - end June) so that participants may pursue additional commitments, internships, etc. throughout the remaining weeks of the summer. Students earn a Business Certificate through a mix of academic courses, including Excel, and professional development touch points, via synchronous and asynchronous course instruction and learning.

For Villanova students, SBA credit may apply to degree requirements in their primary academic college. Students should confirm with their dean's office or primary academic advisor to determine if credits may apply. Non-Villanova students should check with their home institution/advisor about how credits may transfer.

The application is open to all class years. Non-Villanova students from any accredited 4 year college or institution are eligible to apply. Note: International applicants must be matriculated in a full-time program of study at a U.S. institution.

Applications will be accepted from January 15 – April 15. Admission decisions are made on a rolling basis. Complete information can be found online at villanova.edu/vsbsummer. Questions should be directed to The Clay Center at VSB at (610) 519-5532 or vsbsummer@villanova.edu.

Program: Business

Type: Certificate

Program [Non-Business Major](#)

Degree Type Certificate

Course Requirements for Summer Business Academy are:

Course	Title	Credits
SBA 1000	Excel Essentials	1
SBA 1001	Prof Success Essentials	1
SBA 1600	Business Essentials	4

Villanova Summer Business Institute Business Minor Program

VSB's Summer Business Institute (SBI) is a full-time, ten week accelerated program created exclusively for non-business majors. SBI's 16 credit program, scheduled from the end of May – end of July, uses a cohort-based model and is designed to be completed in one-summer with peers from other non-business majors. SBI is taught by VSB faculty members and covers key business disciplines beginning with a course providing an introduction to the fundamentals of business and exposure to Excel. The courses include accounting, business law, economics, finance, analytics, information technology, management, and marketing. A professional development course, including events and workshops, completes the curriculum. Courses are delivered online in an integrated manner, so that the basics of business make sense within the larger context of other professional fields. Villanova students who successfully complete SBI earn a business minor. Non-Villanova students earn a certificate in business.

The application is open to all qualified students and recent graduates from any accredited, 4-year college or institution. Note: International applicants must be matriculated in a full-time program of study at an accredited U.S. institution.

SBI applications will be accepted from January 15 until April 15. Decisions are made on a rolling basis; early submission of applications is encouraged. Complete information can be found

online at business.villanova.edu/sbi. A limited number of need-based scholarships are available to Villanova students; scholarship applicants must apply by March 15. Questions should be directed to The Clay Center at (610) 519-5532 or via email at vsbsummer@villanova.edu.

For Villanova students, SBI credit may apply to the degree requirements in their primary academic college. Students should confirm with their Dean's Office or academic advisor to find out how the SBI coursework may apply. Non-Villanova students should check with their primary institution about how SBI credits may transfer.

Villanova students who successfully complete SBI will earn a business minor and may also pursue an additional VSB minor, or VSB coursework, in one of the following business disciplines: Accounting, Analytics & Artificial Intelligence, Artificial Intelligence and Machine Learning, Business Law and Corporate Governance, Consulting, Finance, International Business, Management Information Systems, Marketing, or Real Estate. **Prior to enrolling in any VSB discipline-specific minor course(s), VSB approval is required and additional pre-req coursework may also be required.** See minor course requirements listed under Academic Programs for more detailed information.

Program [Non-Business Major](#)

Degree Type Minor

Course Requirements for SBI are:

Course	Title	Credits
SBI 0099	Excel	0
SBI 1000	Professional Success	1
SBI 1001	Business Fundamentals	1
SBI 1006	Business Law Basics	1
	SBI 2005 OR SBI 3145	3
SBI 2007	Analytics & Info Technologies	2
SBI 3010	Financial Accounting	2
SBI 3020	Introduction to Finance	2
SBI 3030	Management Essentials	2
SBI 3040	Principles of Marketing	2

SBI 2005 OR SBI 3145

Elective Credits 3

Students who have earned credit for ECO 1001
Intro to Microeconomics will be placed in SBI
3145 Managerial Economics

Course	Title	Credits
SBI 2005	Applied Economics	3
SBI 3145	Managerial Economics	3

College of Engineering

College of Engineering Leadership

Michele Marcolongo, Ph.D., P.E., Drosdick Endowed Dean

Sridhar Santhanam, Ph.D., Vice Dean

Garrett M. Clayton, Ph.D., Associate Dean for Graduate Studies

Noelle Comolli, Ph.D., Associate Dean for Faculty Affairs

David Jamison, Ph.D., Associate Dean for Undergraduate Affairs

Sylvie Lorente, Ph.D., Associate Dean for Research and Innovation

Keith M. Argue, M.S., Associate Dean for External Relations

Steven Lengkeek, Assistant Dean for Finance and Administration

Elizabeth Slocum, Director of Communication and Marketing

Office: Drosdick Hall 138

Phone: 610-519-5860

Website: engineering.villanova.edu

History

The second degree-granting unit inaugurated at Villanova University was the College of Engineering, which began instruction in 1905 under the name of the School of Technology. It was the fourth engineering program to be established at a Catholic school of higher education in the United States. Dr. A.B. Carpenter, a graduate of Lehigh University, was hired in 1904 to organize and direct the school. He was ably assisted by the Rev. James J. Dean, a young faculty member in the sciences. It was their responsibility to develop the curricula, hire faculty and plan the facilities needed. Programs

in Civil and Electrical Engineering were the first to be initiated, with a total of 12 students enrolled. In 1908, an undergraduate program in Mechanical Engineering was established, and in 1909, the first engineering bachelor's degrees were awarded. An undergraduate program in Chemical Engineering was established in 1919. In the years following World War II, the College expanded its degree offerings to the master's level, establishing graduate programs in each of its four engineering departments. A fifth undergraduate degree program in Computer Engineering was added in 1993. A combined bachelor's/master's degree is available in all programs. In 2003, a doctoral degree was instituted in all programs. We offer programs in Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering and Mechanical Engineering. All degree programs offer an Honors option.

The College of Engineering is dedicated to supporting the research activities of its faculty and students. This research is conducted through cooperation with government, industry and private foundations. The College also has extensive research programs in electronics, photonics and microelectromechanical systems devices; nanotechnology, materials and manufacturing; thermal and fluid sciences; sustainable energy systems; stormwater management; and structural engineering.

Academic Mission

Villanova University's College of Engineering is committed to an educational program that emphasizes technical excellence and a liberal education within the framework of the University's Augustinian and Catholic traditions. As a community of scholars, we seek to educate students to pursue both knowledge and wisdom, and to aspire to ethical and moral leadership within their chosen careers, their community and the world.

We value a spirit of community among all members of the College that respects academic freedom and inquiry, the discovery and cultivation of new knowledge, and continued innovation in all that we do.

Objectives

The College of Engineering strives to prepare its graduates to understand their roles in and make constructive contributions to a technological society, and to provide ethical and moral leadership in their profession and communities. These objectives are accomplished by various methods, but primarily by integrating into the curriculum the values and morality of Villanova University's Augustinian heritage. In addition to being professionally competent, graduates are expected to have an understanding of their professional and ethical responsibilities, the impact on engineering solutions in a global and societal context, knowledge of contemporary issues, and an appreciation of humanistic concepts in literature, the arts and philosophy.

The College pursues these objectives by:

- Valuing all members of the Villanova community and beyond.
- Supporting innovation and excellence in teaching.
- Supporting faculty development through research and professional activities.
- Emphasizing design and the design process so that students are exposed to real-world situations.
- Graduating students who:
 - Apply scientific and mathematical concepts and principles to identify, formulate and solve problems in a real-world context.
 - Plan and conduct experimental investigations, and analyze and interpret their results.
 - Function effectively on project teams.
 - Contribute to teams.
 - Communicate ideas and information.
 - Understand the role of the engineering profession and technology, including appreciating concepts drawn from the humanities and social sciences.
 - Embody high professional and ethical standards.
 - Have the motivation and capability to acquire, evaluate, and assimilate knowledge and continue the learning experience.
 - Appreciate the value of service and other cultures.

Office for Undergraduate Affairs

Office for Undergraduate Affairs Directory

David Jamison, Ph.D., Associate Dean for Undergraduate Affairs

Stephen Jones, Ed.D., Associate Dean for Student Success and Retention

Laura Matthews, MPA, Manager, Academic Policies and Procedures

Therese Wosczyzna, Coordinator, Undergraduate Affairs

Academic Policies

Unless otherwise noted, the College of Engineering follows the general academic policies and regulations listed in the University section of this Catalog. It is the responsibility of the student to know and comply with all academic policies and regulations of Villanova University and of the College of Engineering. Such policies may change without prior notice.

Academic Bankruptcy

First-year students may declare academic bankruptcy and repeat their fall or spring semester, or the entire first year. The grades from the bankrupted semester or year will not be included in the cumulative grade point average (though a record of the semester's or year's courses taken will remain on their transcript).

Application for Academic Bankruptcy must be made within 10 days of the end of the semester or year for which bankruptcy is sought. All repeated courses must be taken at Villanova.

Interested students must complete the Repeat First-Year Request Form. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

Academic Standing

To remain in good academic standing, undergraduate engineering students must maintain a cumulative Grade Point Average (GPA), a Technical Grade Point Average (TGPA), and a semester GPA of at least 2.00. Technical courses are defined as all engineering, science and mathematics courses.

Students who receive a grade of D, D-, F, N, NG, WX, W or Y, or whose overall or semester GPA, TGPA, or cumulative GPA, falls below 2.00, will be reviewed by the Academic Standing Committee. This review takes place at the end of each semester when grades are deemed final by the Registrar's Office.

Students who receive grades of D, D-, F or Y, but who have a semester, overall and technical GPA of at least 2.00, generally receive a letter of poor performance, emailed to the student.

Students with a semester, overall or technical GPA less than 2.00 may be placed on Academic Probation and will be notified by email from the Dean's Office. Normally, a student is not permitted to be on probation for more than one semester. Students on probation must meet with the Associate Dean for Student Success and Diversity, Equity & Inclusion at the beginning of the semester and at midterm to discuss how they will improve their grades. These students will formulate this improvement plan using the [Academic Improvement Plan](#).

Any student being reviewed may be dismissed from the College of Engineering. A letter informing the student will be sent overnight and by email. This letter will contain instructions for the student if they wish to transfer to a different College within the University, as well as deadlines for actions that the student must take.

First-year students can declare [Academic Bankruptcy](#) rather than be dismissed from the College.

Academic Advising

Starting as a first-year student, each individual is assigned an academic advisor. The academic advisor is a full-time faculty member of the department of the student's major. If the individual continues with the major to which they were admitted as an incoming student, their faculty advisor will remain unchanged for the full term of the program, with a few exceptions. *Thus, it is incumbent upon students to get to know their academic advisor.* The academic advisor can help students adjust to university life or point them in the right direction for answers. Students must consult with their advisor at least once a semester during preregistration to ensure proper course selection and advancement in the academic program. The academic advisor can assist in helping students select minors and concentrations, and answer questions about career choices, internships, postgraduation employment and graduate school. It is important to note that while a student's academic advisor may be called upon for assistance in making decisions, *it is ultimately the student's responsibility to understand the requirements of the chosen degree program and to plan for the orderly fulfillment of graduation requirements.* To this end, at preregistration time each semester, academic advisors will provide students with up-to-date summaries of the courses they have taken and will be required to take in the future to obtain the target degree.

Advanced Placement (AP) Credit

All Advanced Placement (AP) credit must be accepted and approved before the completion of a student's first two semesters at Villanova.

If a student has taken Advanced Placement (AP) exams and listed Villanova as a recipient of the scores, their scores will be sent directly to the Office of the Registrar. It is the student's responsibility to provide the College Board with full information, such as personal identification and Villanova's college code, 2959, so that the AP credit administration process can be accomplished efficiently.

Credit will be added to your academic record based on the below equivalency.

Students who wish to remove AP credit from their record should first discuss with their academic advisor prior to requesting credit removal. Students should email the Manager of Academic Policies and Procedures to have their credit removed. Once the request has been processed, it cannot be reversed.

Advanced Placement (AP) Credit Equivalencies 2025-2026

Test #	Subject	Score	Villanova Course(s)	Credits
7	United States History	4 or 5	HIS 1002 The United States to 1877 or HIS 1003 The United States Since 1877	3
13	Art History	4 or 5	AAH 1101 His West Art: Ancient-Med or AAH 1102 His West Art:Renaiss-Cont	3
20	Biology	4 or 5	BIO 2105 General Biology I	4
			BIO 2106 General Biology II	4
			CHM 1151 General Chemistry I	4
			CHM 1152 General Chemistry II	4
25	Chemistry	4 or 5	CHM 1103 General Chemistry Lab I	1
			CHM 1104 General Chemistry Lab II	1
			CHI 1009 Foundations in Chinese I	4
28	Chinese Language & Culture	4 or 5	CHI 1010 Foundations in Chinese II	4
31	Computer Science A	4 or 5	CSC 1051 Algorithms & Data Struc I	4
32	Computer Science Principles	4 or 5	CSC 1020 Computing and the Web	3
34	Economics: Microeconomics	5	ECO 1001 Intro to Micro	3
35	Economics: Macroeconomics	5	ECO 1002 Intro to Macro	3
36	English Language & Composition	4 or 5	ENG 1020 AP English Language & Comp	3
37	English Literature & Composition	4 or 5	ENG 1020 AP English Language & Comp	3
40	Environmental Science	4 or 5	GEV 1052 Environmental Studies	3
43	European History	4 or 5	HIS 1021 History of Western Civilization II	3
			FFS 1119 Foundations in French I	3
48	French Language and Culture	4 or 5	FFS 1120 Foundations in French II	3
53	Human Geography	4 or 5	GEV 1002 Geography of a Globalizing World	3
57	Government & Politics: US	4 or 5	PSC 1100 Intro to American Government	3

58	Government & Politics: Comp	4 or 5	PSC 1300 Comparable Politics	3
			LAT 1119 Foundations in Latin I	3
60	Latin	4 or 5	LAT 1120 Foundations in Latin II	3
			ITA 1119 Foundations in Italian I	3
62	Italian Language & Culture	4 or 5	ITA 1120 Foundations in Italian II	3
			JPN 1009 Foundations in Japanese I	4
64	Japanese Language & Culture	4 or 5	JPN 1010 Foundations in Japanese II	4
66	Calculus AB	4 or 5	MAT 1500 Calculus I	4
68	Calculus BC	4 or 5	MAT 1500 Calculus I	4
			MAT 1505 Calculus II	4
69	Calculus AB Subscore Grade	4 or 5	MAT 1500 Calculus I	4
80	Physics C - Mechanics	4 or 5	PHY 2400 Physics I Mechanics	3
			PHY 2402 Physics II Elec & Magnet	3
82	Physics C - Electricity & Magnetism	4 or 5	PHY 2403 Physics Lab for Engineering	1
85	Psychology	4 or 5	PSY 1000 General Psychology	3
			SPA 1119 Foundations in Spanish I	3
87	Spanish Language	4 or 5	SPA 1120 Foundations in Spanish II	3
			SPA 1119 Foundations in Spanish I	3
89	Spanish Literature	4 or 5	SPA 1120 Foundations in Spanish II	3
90	Statistics	4 or 5	STAT 1230 Intro Statistics I or CSC 2300 Statistics for Computing	3
			HIS 1040 Themes Pre-Mod World History or HIS 1050 Themes in Modern World History	3
93	World History	4 or 5		3

A-Level Credit

All A-Level credit must be accepted and approved before the completion of a student's first two semesters at Villanova.

If a student has taken A-Level exams and Villanova has received their final official scores, the student may receive Villanova credit. It is the student's responsibility to ensure their scores have been received.

Credit will be added to your academic record based on the below credit equivalency.

Subject	Equivalent Villanova Course(s)	Credit
Arabic - Language (AS Level only) - 8680	ARB 1111 & 1112 with A/B grade.	8
	ARB 1111 with grade of C or better.	4
Biology - 9700	BIO 2105 & 2106	8
Chemistry - 9701	CHM 1103 CHM 1151 CHM 1104 CHM 1152	10
Chinese - Language & Literature (A-Level only) - 9868	CHI 1111 & 1112 with A/B grade.	8
	CHI 1111 with grade of C or better.	4
*Computer Science - 9618	See below	-
Economics - 9708	ECO 1001 & ECO 1002	6
English Literature - 9695	ENG 2790	3
French Language (AS Level only) - 8682	FFS 1131	3
French Language & Literature - 9898	FFS 1131	3
Geography - 9696	GEV 1002 & GEV 1003	6
History - 9489	HIS 1050	3
History - 9981	HIS 2698	3
*Mathematics - 9709	See below	-
*Mathematics (Further) - 9231	See below	-
Physics - 9702	TBD	-
Psychology	PSY 1000	3
Sociology - 9699	SOC 1000	3
Spanish Language & Literature (A-Level only) - 9844	SPA 1119 & SPA 1120	6

*Students who take A-Level for Math, Statistics, or Computing Science should consult the Office for Undergraduate Affairs because credit may be granted, but is not guaranteed.

Appropriate Schedule

Students must meet with their academic advisor during the advising period that occurs prior to course registration. During this meeting the academic advisor will provide their advisee with a registration PIN which is required to register for courses for the upcoming semester. Students may only use their PIN for courses they have discussed and cleared with their academic advisor. Students who register for courses without their advisor's permission are in violation of the [student code of conduct](#).

By College of Engineering policy, a student whose schedule does not follow their intended plan of study will be notified by the Associate

Dean of an inappropriate schedule. The student will be notified that they must modify their schedule to align with their plan of study or transfer out of Engineering.

Attendance

The University policy regarding attendance is available under the [Academic Policies](#) section of the Undergraduate Catalog.

Students who need to request approval for an excused absence, for reasons aligned with the University's list of excused absences only, should complete the required form. If approved, the student's instructors will be automatically notified of the dates in which the student will be absent.

Students requesting approval for an excused absence should complete the appropriate form. The form can be found on the [Current Engineering Undergraduate Students Intranet site](#).

Audit a Course

A student may elect to audit a course to reinforce and strengthen their current knowledge or to explore new areas without the pressure graded assignments. No academic credit is earned for auditing a course; however, the audited course is noted on the student's official record. Students must complete the [Audit Request form accessible via the Forms Directory on the Office of Enrollment Management](#) webpage. Permission to audit a course must be obtained from the student's advisor.

Change of Major

Change Majors within the College of Engineering

Students who wish to change their major to a different major *within* the College of Engineering must complete the appropriate form. The form can be found on the [Current Engineering Undergraduate Students Intranet site](#).

There are two deadlines for major change applications: Dec. 1st and May 1st. Decisions will be made and communicated to the student

before the start of the following semester. The ability to change majors is dependent on merit and enrollment in each major.

Transfer into the College of Engineering from another College within Villanova

Students who wish to transfer into the College of Engineering from another College within Villanova must complete the appropriate form. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

There are two deadlines for transfer applications: Dec. 1st and May 1st. Decisions on transfer applicants will be made and communicated to the student before the start of the following semester.

Note to incoming first-year students: To be fair to those who have applied to Engineering as high school students and were not accepted, we regret that we cannot accept a student who was accepted by another college and wants to transfer immediately to Engineering upon entering campus in August. Since the acceptance criteria for each college differ, all of us recognize a possible unfair advantage to this. Most importantly, there is not enough time for Engineering to consider the application and work through the acceptance process without rushing to judgment. Students in this situation can apply to Engineering as an internal transfer student before Dec. 1st.

Please note: The ability to change majors is dependent on merit and enrollment in each major.

Transfer from the College of Engineering into another College within Villanova

Students wishing to transfer from Engineering to another College at Villanova should contact the Dean's Office of the desired College.

Course Elsewhere

With approval from their Department Chair, and the College, active engineering students are permitted to take a limited number of courses at other institutions for credit toward their Villanova degree. To initiate a request to do this, the student must complete the Permission to Take

Courses Elsewhere request form and receive approval **prior** to enrolling in the course. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

A complete description of the substitute course content in the form of a copy of the other institution's official course catalog and syllabus, or a copy of the other institution's web description must be attached to this form. This information must be researched and compiled by the student before it is attached to the form. The student should allow 7-10 days for final action to be taken on the request. Questions concerning courses taken elsewhere should be directed toward the student's academic advisor or Department Chair.

Retroactive approvals will not be granted. That is, no approvals will be given for requests submitted after the external course has already begun.

Students who have completed approved courses elsewhere must request that institution send a final official transcript to their Department Chair. **Students are responsible for ensuring the department has received their transcript within two semesters of completing the course.**

Villanova does not approve transfer of credits for courses taken during the summer at other colleges and universities if the same or comparable (for purposes of filling requirements) courses are available at Villanova in a distance education mode during the summer.

Please note: Credit will only be awarded for courses in which a grade of "C" (or the equivalent) or better is earned. Credit will not be awarded for courses taken elsewhere without prior approval.

The University policy on courses taken elsewhere can be found [here](#).

Credit Overload

The individual engineering curricula are comprised of appropriately sequenced course groupings referred to as "regular semester course loads." Each semester can have a different credit and course load. Students may not take more than 19.5 credits in a semester without approval. More than 19.5 credits is considered a course or

credit overload. An overload is generally approved for a maximum of one course or four credits provided that:

1. A first-year student has permission from the office of the Associate Dean for Undergraduate Affairs. Normally, only second-semester first-year students with a GPA of at least 3.5 are permitted to overload, or
2. An upperclassman has approval from their advisor and Department Chair. A GPA of at least 3.0 is required in this case.

In addition to the requirements above, an overload is generally only approved for the pursuit of a minor or second major, ROTC purposes, and for adjusting schedules to accommodate study abroad, if needed.

Students wishing to request permission to overload must complete the Course Overload Request form. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

Course Withdrawal

Engineering student requests for authorized withdrawal from a course without penalty (WX) will be granted until approximately three-and-a-half weeks after midterm break. ([View the Academic Calendar](#) for official date.)

Any student wishing to withdraw (WX) during the appropriate time period, must complete the Course Withdrawal Form. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

Only in extreme cases, such as serious personal or medical emergencies, that specifically occurred on or around the date of the normal WX deadline and therefore prevented the student from requesting a WX prior to the published deadline, will a late WX be considered for approval by the College. Supporting documentation, such as doctor's notes or health center records, is required.

Students who do not have a justifiable cause to withdraw from a course after the authorized date may still withdraw from the course and receive a grade of "W". The grade of "W" is equivalent to an "F" grade and is included in computing the

student's grade point average (GPA) and technical grade point average (TGPA) if appropriate.

Double Major

Double Major: A double major is a program of study that meets the requirements of two distinct majors in a single bachelor's degree. Engineering students interested in pursuing more than one major should discuss the possibility with their academic advisor in Engineering before applying to the other program. Because of prerequisites and course scheduling, the College of Engineering makes no guarantee that students pursuing more than one major will be able to take any engineering course during any semester of their choosing. Students should not expect to complete more than one major in four years. Multiple majors, regardless of college, will appear on the student's transcript.

Engineering must be the primary major for all double-major students. Admission is based upon merit and space available in the intended second major. Applications are due Dec. 1 (for the following Spring Term) and May 1 (for the following Fall Term). [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

Dual Degree

Dual Degree: Normally, a student may receive only one degree, regardless of how many majors the student earns. A Dual Degree is a second degree that is completed at the same time as a first degree. A Dual Engineering Degree option is available to College of Engineering students only. In order to receive two degrees and two diplomas, the student must complete 43 or more additional credits beyond the greater of the two individual program credit requirements.

Students must request to pursue a second degree prior to completing their fourth semester. Admission is based upon merit and space available in the intended major of the second degree. Applications are due Dec. 1 (for the following Spring Term) and May 1 (for the following Fall Term). [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

Exam Administration

Integrity is central to the mission of Villanova University. The Faculty of the College of Engineering is committed to creating an environment of academic integrity and ethical decision-making. To encourage an atmosphere of honesty, integrity and fairness for all students, the following exam procedures are in place:

- Students must arrive before the start of the exam. Under exceptional circumstances, at the discretion of the professor, a student may need to arrive late, but can enter the exam no later than 5 minutes after the start of the exam.
- All communication devices (cellphones, smartwatches, etc.) must be turned off and stored away until the student exits the exam room.
- The official Villanova [class attendance policy](#) must be followed when requesting excuses for absences or lateness to an exam.
- Each student must *write and sign* the following statement, “*I have neither given nor received any unauthorized assistance in the completion of this exam.*”

Grade Point Average (GPA)/Technical Grade Point Average (TGPA)

The Cumulative Grade Point Average (CGPA) calculation includes grades for all courses taken at Villanova. Transfer credits do not affect the student's CGPA.

The Technical Grade Point Average (TGPA) calculation includes grades for courses from the following subject areas:

- Astronomy and Astrophysics (AST)
- Biology (BIO)
- Chemical Engineering (CHE)
- Chemistry (CHM)
- Civil and Environmental Engineering (CEE)
- Computer Science (CSC)
- Electrical and Computer Engineering (ECE)
- Engineering (EGR)

- Mathematics (MAT)
- Mechanical Engineering (ME)
- Physics (PHY)
- Statistics (STAT)

Repeated Course Effect on GPA and TGPA

If a student repeats a course, both grades remain in the GPA calculation, while only the second grade remains in the TGPA calculation. In both cases, course credits can be earned only once. Transfer credit may not be used to replace a grade in the TGPA.

Graduation

Graduation Procedure

Students can earn their degree at the end of the fall, spring, or summer semester. Commencement is held once per academic year in May.

In addition to passing all required courses, a Cumulative Grade Point Average (CGPA) of at least 2.0 is necessary for graduation. For Engineering students, a Technical Grade Point Average (TGPA) of at least 2.0 is also required.

Following the below instructions will assist both the College and the student in a timely diploma distribution. The detailed process below is to ensure students' names are included on the graduation list.

1. After students have completed registration for their final semester, they should review a copy of their degree audit to be sure that every requirement is showing “complete” either with a completed course or course registration; review all majors, minors, and concentrations.
 - Special attention should be paid to the use of graduate-level courses. If a student is planning to continue in a master's program at Villanova and they have taken courses as an undergrad, a Confirm Graduate Course Credits for Degree form should be used to verify proper use of courses. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)
 - Senior year is the time for the student to update their field of study and add or remove any majors, minors or concentrations. Students should request

any minor or concentration they will not complete be removed from their record. When requesting the removal of a minor or concentration, please use the Minor request form and select Remove as the type of change on the form. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

2. Review the degree audit with your advisor. Both the student and advisor sign and date the degree audit.
3. The Degree Verification Representative in the student's department will review all degree audits before the add/drop period is over verifying all curriculum requirements are fulfilled. The Degree Verification Representative will notify the student of any discrepancies.

Degree Verification Department Representatives:

CHE - [Dr. Dorothy Skaf](#)

CEE - [Dr. Kristin Sample-Lord](#)

CPE - [Mr. Edward Char](#)

EE - [Mr. Edward Char](#)

ME - [Dr. Aaron Wemhoff](#)

An Engineering student who has not attained the required credits for degree completion may apply for permission to "walk" in May graduation ceremonies if the student is an undergraduate who has no more than three courses left to complete the requirements for their degree and is registered to complete all of these requirements by the end of the next fall semester.

The student must complete the Request to Participate in Graduation Ceremonies Form. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

The student's name will appear in the May program following degree conferral. A diploma will be mailed to the student at their address of record after all requirements have been completed.

International Baccalaureate (IB) Credit

All International Baccalaureate (IB) credit must be accepted and approved before the completion of a student's first two semesters at Villanova.

If a student has taken International Baccalaureate (IB) exams and Villanova has received their official scores, the student may receive Villanova credit. Villanova only awards credit for Higher Level exams. It is the student's responsibility to ensure their scores have been received.

Credit will be added to your academic record based on the below credit equivalency.

Students who wish to remove IB credit from their record should first discuss with their academic advisor prior to requesting credit removal. Students should email the Manager of Academic Policies and Procedures to have their credit removed. Once the request has been processed, it cannot be reversed.

International Baccalaureate (IB) Credit Equivalencies 2024-2025

Note: Credit is only given for Higher Level (HL) exams

Subject	Score	Villanova Course(s)	Credits
Biology	6 or 7	BIO 2105 General Biology I	4
		BIO 2106 General Biology II	4
Chemistry	6 or 7	CHM 1151 General Chemistry I	4
		CHM 1152 General Chemistry II	4
		CHM 1103 General Chemistry Lab I	1
		CHM 1104 General Chemistry Lab II	1
Computer Science HL	5, 6, or 7	CSC 1051 Algorithms & Data Structure I	4
Economics	5, 6, or 7	ECO 1001 Intro to Micro	3
		ECO 1002 Intro to Macro	3
English	5, 6, or 7	ENG 1050 The Literary Experience	3
French A2 or B	6 or 7	FFS 1119 Foundations in French I	3
			3

		FFS 1120 Foundations in French II	
Geography	5, 6, or 7	GEV 1002 Geography of a Globalizing World	3
History Americas	6 or 7	HIS 4495 Topics in Latin American History	3
History Europe	6 or 7	HIS 1021 History of Western Civil II	3
Information Technology	5, 6, or 7	CSC 1930 Explorations in Computing	3
		ITA 1119 Foundations in Italian I	3
Italian A2 or B	6 or 7	ITA 1120 Foundations in Italian II	3
		LAT 1119 Foundations in Latin I	3
Latin	6 or 7	LAT 1120 Foundations in Latin II	3
Mathematics: Applications and Interpretation	5	MAT 1500 Calculus I	4
Mathematics: Applications and Interpretation	6 or 7	MAT 1500 Calculus I	4
		MAT 1505 Calculus II	4
Mathematics: Analysis and Approaches	5	MAT 1500 Calculus I	4
Mathematics: Analysis and Approaches	6 or 7	MAT 1500 Calculus I	4
		MAT 1505 Calculus II	4
Music	6 or 7	SAR 3030 Special Topics in Music	3
Philosophy	6 or 7	PHI 2990 Topics in Philosophy	3
		PHY 2400 Physics I Mechanics	3
Physics	6 or 7	PHY 2402 Physics II Elec and Magnet	3
		PHY 2403 Physics Lab for Egr	1
Psychology	6 or 7	PSY 1000 General Psychology	3
		SPA 1119 Foundations in Spanish I	3
Spanish A2 or B	6 or 7	SPA 1120 Foundations in Spanish II	3

Minors and Concentrations

Students should review their University academic record periodically each semester to ensure the minor and/or concentration they are pursuing is accurate. It is the responsibility of the student to ensure the accuracy of their record.

The form required to add or remove a minor or concentration should be submitted as soon as possible to allow for timely processing. Once the minor appears on your student record, the academic advisor of said minor will be added. Students should direct questions related to their minor to their minor academic advisor.

There are certain courses required for minors that are restricted to students with that minor. If the minor does not appear on your record the semester prior to which you wish to take the course, you might not be able to take the course. Early completion of the minor form is imperative.

Students who wish to add or remove a minor or concentration in the College of Engineering must complete the appropriate form. [The form can be found on the Current Engineering Undergraduate Students Intranet site.](#)

Pre-Matriculated Credit

All Pre-Matriculated credit must be accepted and approved before the completion of the student's first two semesters at Villanova.

College-level work completed prior to high school graduation, including college courses that fulfill high school graduation requirements, must meet the following criteria to be considered for transfer credit:

- The course must be taught by a member of a college or university faculty for college students and enroll college students
- If the course is taught on a high school campus, by high school faculty members, and the enrolled students are only high school students, then the course is not eligible for transfer credit

If the above criteria are met, then the student may be awarded transfer credit upon receipt and review of the following:

(1) an official letter from the high school principal, secondary school counselor or other educational professional describing the college-level program of study;

(2) an official letter from the college/university stating that the courses were taught by members of the regular faculty, open to enrollment by and graded in competition with regularly matriculated

undergraduates at the college and a regular part of the normal curriculum published in the college catalog;

(3) a course syllabus; and

(4) an official, seal-bearing transcript from the college/university showing a grade of C or better.

With respect to courses taught in a distance-learning format, and for other requirements, each academic program will review on a case-by-case basis.

Credit or advanced standing for courses taught at the high school will not be accepted. Credit or advanced standing for courses in which the class is composed of only high school students will not be accepted.

Each supporting document is to be sent to [Laura Matthews](#), Villanova University, Drosdick Hall, 800 Lancaster Ave., Villanova, PA 19085.

Readmission

Per [University Policy](#), a student who has withdrawn from the University who wishes to return, must apply directly to the college the student wishes to attend (admission is granted at the sole discretion of the dean of that college).

A former Engineering student who withdrew in good standing (over a 2.0 cumulative Grade Point Average (GPA) and no probationary problems) may be readmitted to the College of Engineering upon request. This request must be submitted, in writing via email, to the Associate Dean of Undergraduate Affairs. The request must include any official transcripts from other universities attended while away from Villanova, the reason(s) for withdrawal and timetable for degree completion, if re-admitted.

Requests must be received by May 1 for a possible fall start. All requests will be reviewed by the Associate Dean in consultation with the Academic Standing Committee.

Satisfactory/Unsatisfactory Grades

All non-first-year undergraduate engineering students may elect to take, on a Satisfactory/Unsatisfactory basis, one course per semester that meets all of the following criteria:

1. It is not specifically designated by course number in the curriculum of the student's major.
2. It is not being given by the department in which the student is majoring.
3. It is not designated as a Technical Elective in the curriculum of the student's major.
4. It is not being used to meet requirements for any minor offered by the College of Engineering.
5. Permission to take the course has been specifically granted by the chair of the department in which the student is majoring. Students must check with minors outside the College as to their acceptance of Satisfactory/Unsatisfactory credit.

To take a course on a Satisfactory/Unsatisfactory basis, the student must first register for the course by the normal procedure. After registration has been completed, the student must complete a Satisfactory/Unsatisfactory Grade Request form. The form can be found on the [Registrar's page](#).

Study Abroad

Engineering students are encouraged to participate in the many study abroad experiences available at Villanova. The [Office of Education Abroad](#) (OEA) assists students in identifying opportunities and facilitating the enrollment process.

Students will work with OEA and the study abroad faculty advisor within their home department. Please contact the Chair of your department to find out who the advisor is.

To receive approval for participation in a study abroad program, it must meet all the requirements of both OEA and your home department.

Students may not enroll in any Villanova courses in the College of Engineering while studying

abroad, unless the course is offered in a 100% asynchronous modality. If a student wishes to enroll in such a course, they must contact their study abroad advisor as well as the Registrar in order to be placed in the proper section.

Undergraduates Enrolling in Graduate- Level Courses

The College of Engineering allows undergraduate students to enroll in graduate courses [in compliance with the University's policy](#). Students must meet the following requirements:

- Senior standing (in terms of credits, not in terms of years at Villanova)
- Minimum of 3.0 cumulative GPA
- Appropriate approvals (advisor, course instructor, and department chair)

Mechanical, Electrical and Computer Engineering students may "double-count" up to three courses (nine credits) permitting some graduate courses completed as an undergraduate to be applied toward the completion of both the bachelor's degree and the master's degree. Civil Engineering may "double-count" up to two courses (six credits).

Undergraduate students requesting permission to register for an Engineering graduate course should complete the appropriate form. [The form can be found on the Current Engineering Undergraduate Students Intranet site](#).

In addition, students must complete the Confirm Graduate Course Credits for Degree form when they are in their senior year. This form can also be found on the [Current Engineering Undergraduate Students Intranet site](#). The form is to be used by undergraduate students who have completed or are currently enrolled in graduate-level courses. It is used to determine which (if any) of the graduate-level courses taken as an undergraduate will be counted toward the undergraduate degree.

General Information

Grand Challenges Scholars Program

The Grand Challenges are an aspirational vision of what engineering needs to deliver in the 21st century. Its 14 corresponding goals are focused on "continuation of life on the planet, making our world more sustainable, secure, healthy and joyful." The Grand Challenges Scholars Program is an engineering education supplement that broadens the reach of undergraduate study and is open to all engineering majors. Students must fulfill five competencies related to their selected challenge.

Interested students can find additional information on the [Grand Challenges Scholars Program webpage](#).

Student Organizations

To encourage close contact between our engineering students and practicing professional engineers, and to assist students in establishing their engineering identity, the College of Engineering maintains student chapters of many engineering professional societies. These groups, with the cooperation and support of the faculty and practicing professional engineers, organize and sponsor meetings, guest speakers and field trips of interest to engineering students.

Honor Societies:

- Eta Kappa Nu - International Honor Society of the Institute of Electrical and Electronics Engineers
- Pi Tau Sigma - International Honor Society for Mechanical Engineers
- Omega Chi Epsilon - Chemical Engineering Honor Society
- Tau Beta Pi - The Engineering Honor Society (representing the entire engineering profession)

Professional Organizations:

- American Institute of Aeronautics and Astronautics

- American Institute of Chemical Engineers
- American Society of Civil Engineers
- American Society of Mechanical Engineers
- Institute of Electrical and Electronics Engineers
- Institute of Transportation Engineers
- National Society of Black Engineers
- National Society of Professional Engineers
- Society of Asian Scientists and Engineers
- Society of Hispanic Professional Engineers
- Society of Women Engineers

Engineering Student Council – A student organization that serves as the liaison between the students and the College administration. The broader professional and social interests of all engineering students are served by the Villanova University Engineering Student Council. Membership in this organization is open to all undergraduate engineering students.

Engineering Support:

Peers Enhancing Educational Resources for Students (PEERS) – A Villanova Engineering student organization providing peer mentoring to all students, with the emphasis on first-year and transitional students.

More information on the many student organizations can be found on the engineering website.

Laboratory Facilities

Drosdick Hall, a state-of-the-art research and teaching facility, is the home of Villanova University's College of Engineering. The largest academic building on campus, Drosdick Hall opened in 2024 following a \$125 million, 150,000-square-foot expansion project. The expansion more than doubled the size of Villanova's previous engineering building, creating a 63% increase in overall lab space in a facility designed to further the College's commitment to igniting change through interdisciplinary research and innovative teaching and learning.

The Chemical and Biological Engineering Department's laboratories provide opportunities for students to integrate fundamental principles in thermodynamics, fluid mechanics, heat transfer, mass transfer and reaction kinetics with hands-on experimental planning, performance and analysis. Students use state-of-the-art facilities to participate in biotechnology, materials science and catalysis research. Computer clusters support research, and a computer-equipped classroom enhances laboratory, process-control and process-simulation experiences.

The Civil and Environmental Engineering Department is committed to hands-on education in its experimental, computational and design laboratories. Facilities are dedicated to instruction and research capabilities in environmental engineering, geology, soils, structures, transportation and hydraulics. Facilities support undergraduate instruction as well as both undergraduate and graduate research. The department's Faris Structural Engineering Teaching and Research Lab provides 5,000 square feet of useable floor space to test full-scale structural members up to 90 feet in length and includes two smaller laboratories for testing construction materials under various environmental conditions. The University campus is also used as a working laboratory for education and research on stormwater management, through a vast network of interconnected sensors.

The Electrical and Computer Engineering Department laboratory facilities are available to serve as important components of study in specialized areas as well as for core studies. Laboratories are in place for instruction and research in control systems, digital systems and microprocessors, electronics, signal processing, solid state devices, microwaves, microcontrollers, advanced electronics, advanced computer systems, antenna anechoic chamber, antenna research, communications and student projects.

The Mechanical Engineering Department laboratories provide an environment for students to reinforce their understanding of the fundamental principles of mechanical engineering and apply that knowledge in experimental analysis and problem-solving. Students have ample opportunities for hands-on learning and research with access to facilities that include a wind tunnel as well as laboratories for manufacturing processes, thermodynamics,

materials testing and material science, control, vibration, stress, heat transfer and fluid mechanics. A makerspace equipped with CNC milling machines and lathes, a variety of 3D printers, a welding lab, and a machine shop, provides students the tools to build prototypes for design projects.

Computing

All students are required to own or purchase a Microsoft Windows-based laptop computer. Students must bring their laptops to class as course work often requires the use of a computer.

Apple computers are not compatible with all engineering application software that is required for engineering course work.

College and University Computing

The entire campus is linked via a high-speed network and is connected to the internet. The College also provides a virtual desktop that allows students to run engineering software remotely. Information technology support is provided by University Information Technology (UNIT), the University's IT group, as well as by the College's IT group with a walk-in, online and telephone help desk system.

Software and Departmental Computing

The analysis and simulation software MATLAB and Mathcad, spreadsheet package Excel, drawing packages SolidWorks and AutoCAD, and data-acquisition software LabVIEW are available for use. In addition, some departments have their own computers and workstations in classrooms and laboratories. Besides computers for data acquisition and control in the laboratories, special-purpose computer software is installed on computers throughout the College. For example, the Chemical and Biological Engineering Department uses Aspen Plus for simulation of its chemical process systems and makes the software available in computer classrooms. The Civil and Environmental Engineering Department has industry-specific software packages installed on its computers, including STAAD and SimTraffic. Simulink and PSpice are used among many other packages in the Electrical and Computer Engineering Department. In the Mechanical Engineering

Department, students use Ansys and Fluent for finite element analysis and computational fluid dynamic simulations.

Awards and Honors

Dean's List: An individual who has earned a semester GPA of 3.50 or above, is a full-time student, has completed 12 or more credits with final grades in the semester, and has no "N" or unreported grades is placed on the Dean's List. Approximately two months after the end of the semester, an appropriate letter of acknowledgement is sent to the student at the permanent address on file with the University.

Dean's Award for Academic Achievement: This award was established to recognize the outstanding academic performance of senior undergraduate engineering students who will graduate within the current academic year. To be a recipient of the Academic Achievement Award, students must have a cumulative grade point average within the top 10 percent of their respective major at the end of the fall term.

Dean's Award for Meritorious Service: This award was established to recognize exceptional service to the College of Engineering by senior undergraduate engineering students who will graduate within the current academic year. To be eligible, nominees must be involved in extracurricular and/or service activities within the College for a sustained period. Preference is given to students who demonstrate noteworthy leadership in one or more activities.

Departmental Medallions: At graduation, each department awards a departmental medallion to an exceptional graduate selected by the department.

Robert D. Lynch Award: This award was instituted in 2003 in honor of Robert D. Lynch, the Dean of the College of Engineering from 1975 to 2000. Given on behalf of the Engineering Alumni Society, this prestigious award acknowledges a graduating senior for outstanding academic achievements and exemplary dedication to serving the community, thus representing the highest values of Villanova University and the College of Engineering.

Curriculum

Degrees Offered

The College of Engineering offers full-time (day) academic programs leading to the following degrees:

- Bachelor of Science in Chemical Engineering
- Bachelor of Science in Chemical Engineering, Honors
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Civil Engineering, Honors
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Computer Engineering, Honors
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Electrical Engineering, Honors
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Mechanical Engineering, Honors

Minors Offered

The College of Engineering offers the following minors:

- Aerospace Engineering
- Biochemical Engineering
- Biomedical Engineering
- Cellular Engineering
- Computer Engineering
- Cybersecurity (joint offering between the College of Engineering and the College of Liberal Arts and Sciences)
- Electrical Engineering
- Engineering Entrepreneurship
- Engineering Entrepreneurship Summer Institute
- Humanitarian Engineering
- Mechatronics
- Real Estate Development (joint offering between the College of Engineering and Villanova School of Business)
- Sustainable Engineering
- Sustainability Studies (joint offering between the College of Engineering and the College of Liberal Arts and Sciences)

Degree Requirements

The undergraduate engineering curriculum provides the foundation for careers in engineering as well as the basis for further study in engineering and other professions such as law, medicine, business and management. Courses of study concentrate on mathematics, physics, chemistry, engineering science, and engineering analysis and design within a particular engineering discipline.

The curriculum places special emphasis upon developing oral and written communication skills, and it offers opportunities to develop an appreciation of the social sciences and humanities, and the flexibility to pursue minors. Courses in the humanities are included in each curriculum to make the student engineer more fully aware of social responsibilities and better able to consider non-technical factors in the engineering decision-making process. Extensive hands-on laboratory experience and required projects for all seniors ensure professional preparation in the fundamentals of the design process within the real constraints of problem solving. To qualify for a bachelor's degree in the College of Engineering, undergraduate engineering students must successfully complete all of the first-year core curriculum courses, those major courses required for the particular engineering degree sought, all six Career Compass courses, and a series of electives. They must also achieve cumulative overall and technical grade point averages of at least 2.00 in their course work.

At least half of all the engineering courses and, normally, the final 30 credits of an engineering bachelor's degree program, must be taken at Villanova University. All undergraduate degree requirements should be completed within a six-year period.

NOTE: It is the responsibility of each student to know and to fulfill all degree requirements. To keep the curriculum abreast of the latest engineering developments, Villanova University reserves the right to change the program requirements without prior notice.

Core Curriculum

All engineering students have a common first semester consisting of the following courses:

Course	Title	Credits
ACS 1000	Ancients	3
THL 1000	Faith, Reason, and Culture	3
MAT 1500	Calculus I	4
CHM 1103	General Chemistry Lab I	1
CHM 1151	General Chemistry I	4
EGR 1200	Engineering Design Cornerstone	3
EGR 1001	Career Compass IA	0.5

Engineering Curriculum Requirements in Humanities and Social Science:

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
	Theology (THL) course at the 2000 level or above	3
	Department approved Ethics 3 course	
	One 3-credit course from:	3

Theology (THL) course at the 2000 level or above

Elective Credits 3

Or course with Core Theology (CTHL) attribute.

Department approved Ethics course

Elective Credits 3

One 3-credit course from:

Elective Credits 3

Course	Title	Credits
	Theology (THL) course at the 2000 level or above	3
	Philosophy (PHI)	3
	Peace and Justice (PJ)	3
ETH 2050	The Good Life:Eth & Cont Prob	3
EGR 2930	Catholic Soc Teaching for EGRS	3

Honors Degrees

Website: honors.villanova.edu

Email: honorsprogram@villanova.edu

Program Location: Garey Hall 106

Telephone: 610-519-4650

About:

Students who are accepted in the Honors Program upon their admission to the University have the ability to pursue the Honors Degree. Those pursuing an Honors Engineering Degree must complete the following requirements, which vary slightly by major. Honors students must also maintain a 3.33 cumulative GPA to remain in the program. All Honors students are advised by an academic advisor in their department, and the Honors Program provides additional advising support.

Academic Requirements:

The Honors Degree comprises 29-31 credits, depending on the Engineer's major. To earn the Honors Degree, students must take the following courses.

- [EGR 1200: HON: Eng Design Cornerstone](#)
- [EGR 2001: HON: Egr: Humanistic Context](#)
- [EGR 4007: Profess. & the Def. of Success](#) taken in conjunction with the Engineering capstone course required for the student's major according to the list below (EGR 4007 may be taken during the semester prior to the capstone course if the capstone course is taken during the Fall).
 - Civil Engineering - [CEE 4606: CEE Capstone II](#)
 - Chemical Engineering - [CHE 4202: Process Controls](#)
 - Electrical and Computer Engineering - [ECE 4975: Capstone Design II](#)
 - Mechanical Engineering - [ME 5006: Capstone Design II](#)

- One additional Honors Engineering course (chosen from the following):
 - Undergraduate research course (no more than one semester of Undergraduate Research coursework may count). Course numbers vary by major; students would take the course in the department of their own major.
 - Civil Engineering - [CEE 4612: CEE Undergraduate Research](#)
 - Chemical Engineering - [CHE 4832: Senior Project Studio II](#)
 - Electrical and Computer Engineering - [ECE 5991: Elec Eng Research I](#)
 - Mechanical Engineering - [ME 5001: ME Undergraduate Research I](#)
 - Other contracted Engineering course. This must be approved by the professor and by the Honors Program. See the Honors Program section of the Catalog for more information on contract courses.
 - Graduate-level Engineering course. The course must be used towards the student's undergraduate degree. See Honors Program section of the Catalog for more information.
 - Study abroad Engineering course. The course must be approved by the Honors Program. See Honors Program section of the Catalog for more information.
- Six additional 3-credit Honors courses (or equivalent curricular options). See Honors Program section of the Catalog for more information about obtaining Honors credit for curricular options like contract courses, independent studies, study abroad courses, graduate courses, and colloquium bundles.

Career Compass

Assistant Director, Professional Development: Emily Park
 Office Location: 170E Drosdick Hall
 Telephone: 610-519-5422
 Email: emily.park@villanova.edu

About:

Developed in consultation with engineering alumni, faculty and students, Career Compass is a one-of-a-kind professional development

curriculum unique to Villanova's College of Engineering. As part of our comprehensive undergraduate engineering program, students will learn not only the scientific, mathematical and engineering principles expected of every engineer, but also the professional skills needed to succeed in any career.

A graduation requirement that will appear on your transcript, Career Compass is a combination of self-directed online modules, in-person class sessions for first-semester students, and required activities, such as attending professional events on campus.

For additional information about the program [visit the Career Compass portion of the Current Engineering Undergraduate Students Intranet site](#).

Requirements:

The Career Compass Program requires the successful completion of the below six courses (.5 credits each). "A" courses are offered in the fall semester and "B" courses are offered in the spring semester. All courses are offered in the summer; however, summer tuition and fees apply.

[EGR 1001](#) - Career Compass IA

[EGR 1002](#) - Career Compass IB

[EGR 2003](#) - Career Compass IIA

[EGR 2004](#) - Career Compass IIB

[EGR 3005](#) - Career Compass IIIA

[EGR 3006](#) - Career Compass IIIB

Academic Programs

College of Engineering

College of Liberal Arts & Sciences

Sustainability Studies Minor

Program Director: Frank Galgano, Ph.D.
Office Location: Mendel Science Center G67E
Telephone: 610-519-3336
[\[Website\]](#)

Engineering students should contact:
Minor Director: Virginia Smith, Ph.D.
Office Location: 364A Drosdick Hall
Telephone: (610) 519-4961
Email: virginia.smith@villanova.edu

Program [College of Liberal Arts & Sciences](#)
Degree Type Minor

MINOR: Sustainability Studies (18 credits)

The sustainability minor is open to all students and requires 6 courses and ~21 credits (dependent on lab course selections). It is designed for students who wish to deepen and broaden their knowledge of sustainability with a distinctive program of study encompassing the relationship between the environment and society. In addition to taking GEV 3001 (which will replace one course from either the Humanities or Policy Stem), students will select two courses from each of the three stems below: Humanities, Policy, and Science and Technology.

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Students may count 2 sustainability-approved courses from their primary major or a relevant core course (including relevant MSE courses) toward the minor.
- Course list may be supplemented by the program director as new courses become available
- With the permission of the program director, the following courses MAY be counted (when they are sustainability-relevant: For PJ 3000, PJ 5000, ECO 4200, GEV 3000, GEV 4330, GEV 4340, GEV 4510, PSC 4275, CEE 4612, CHE 4831/32.
- BIO 4451/52, CHE 4831/32, CHM 1311/01, GEV 1050, GEV 1051, GEV 432X: Associated Lab Required, see advisor

Course	Title	Credits
GEV 3001	Intro to Sustainability Study	3
	Humanities Stem Courses	
	Policy and Management Stem Courses	
	Science and Technology Stem Courses	

Humanities Stem Courses

Choose two courses from the list below or two that carry the SHUM attribute.

- The required GEV 3001 course counts towards either one Humanities Stem or one Policy Stem requirement.
- **Listed topics courses/history and english core may only count toward the minor if they fall within the Sustainability Studies list of approved courses.** If in doubt, see program director.

Humanities Stem

The list below also includes:

- ENG 4690 (Post-200 American Apocalypse or Literature and the Environment sections)
- PJ 4250

Course	Title	Credits
CHI 3412	Chinese Special Topics	3
ENG 1975	Core Lit and Writing Seminar	3
ENG 2018	Nature Writing Workshop	3
ENG 2304	Cont World Lit & Environment	3
ENG 4703	21st C. American Apocalypse	3
ETH 3010	Topics in Ethics	3
GEV 2525	Population Geography	3
GEV 3004	Geographies Envrnl Justice	3
GIS 4100	Topics in GIS	3
GIS 5000	Special Topics	1
HIS 1065	Topics Nature, Environ & Tech	3
JPN 3412	Special Topics	3
LAS 3412	Special Topics	3
PHI 2121	Environmental Ethics	3
PHI 2550	Technology & Society	3
PHI 4210	Environmental Philosophy	3
PJ 3000	Selected Topics	1
PJ 5000	Selected Topics	3
SPA 3412	Special Topics	3
SPA 3485	Nature in the Middle Ages	3
THL 2460	Bible and Environment	3
THL 4100	THM Catholic Ethics	3
THL 4330	Christian Environmental Ethics	3
THL 4490	THM Christian Ethics	3

Policy and Management Stem Courses

Choose two courses from the list below or two that carry the SPOL attribute.

- The required GEV 3001 course counts towards either one Humanities Stem or one Policy Stem requirement.
- **Listed topics courses may only count toward the minor if they fall within the Sustainability Studies list of approved courses.** If in doubt, see program director.

The following courses are included in the list below:

- PSY 2500

Course	Title	Credits
ECO 3108	Global Political Econ	3
ECO 3200	Topics in Economic	3
GEV 2500	Global Change in Local Places	3
GEV 3000	Special Topics	3
GEV 3001	Intro to Sustainability Study	3
GEV 3522	Geography of the Middle East	3
GEV 3570	Land Use Planning & Mgmt	3
GEV 3580	Natural Res and Conservation	3
GEV 3590	Topical Research Problems	3
GEV 4001	Advanced Sustainability Study	4
GEV 4300	Selected Topics	1
GEV 4331	Env. Policy & Management	3
GEV 4336	Environmental Economics	3
GEV 4516	Environmental Security	3
MGT 2208	International Topics	3
PA 2000	Public Policy	3
PA 3000	Overview of Non-Profit Sector	3
PJ 5000	Selected Topics	3
PSC 4275	Topics in Internat'l Relations	3
VIA 3020	Creating Social Impact	3
VIA 3050	Building What Matters	3

Science and Technology Stem Courses

Choose two courses from the list below or two that carry the SSCT attribute.

- **Listed topics courses may only count toward the minor if they fall within the Sustainability Studies list of approved courses.** If in doubt, see program director.

Science and Technology Stem

- MSE 2508 may also count.

Course	Title	Credits
BIO 3661	Environment and Human Health	3
BIO 3952	Special Topics in Biology LAB	1
BIO 3485	Marine Biology	4
BIO 3385	Global Change Ecology	4
CEE 2211	Transportation Engineering	3
CEE 4612	CEE Undergraduate Research	3
CHE 5001	Industrial Liq & Sld Waste	3
CHE 5715	Alternative Energy	3
CHE 4831	Senior Project Studio I	3
EGR 2110	Sus Eng: Risks & Opportunities	3
GEV 1004	Climate Change	3
GEV 1050	Environmental Science I	4
GEV 1051	Environmental Science II	4
GEV 1052	Environmental Studies	3
GEV 1053	Environmental Studies II	3
GEV 3000	Special Topics	3
GEV 3308	Environmental Health	3
GEV 3521	GIS for Urban Sustainability	3
GEV 3550	Natural Hazards	3
GEV 4300	Selected Topics	1
GEV 4320	Spec. Topics in Env Lab Sci	4
GEV 4322	Ocean Environments	4
GEV 4323	Watershed Biogeochemistry	4
GEV 4331	Env. Policy & Management	3
GEV 4511	Climate Variability	3
GEV 4512	Medical Geography	3
GEV 4518	COVID-19 Pandemic	3
MET 1221	Severe & Hazardous Weather	3
MET 1222	Climate Change: Past & Present	3
MSE 2205	BIO: Biodiversity & Conservation	4
MSE 2301	CHM: Water	4
MSE 2305	Perspective on Plastic	4
MSE 2500	GEV: Env. Sustainability	4
MSE 2507	GEV: Environmental Pollution	4
SCI 5300	Capstone Seminar	3
VIA 3010	Indoor Air Quality/Hum Hlth	3

Computing Sciences

Chair: Daniel Joyce, Ph.D.

Office Location: Mendel Science Center Rm. 161

Telephone: (610) 519-7307

[Website](#)

About

The Department of Computing Sciences seeks to provide outstanding education, to advance scholarship, and to engage in activities that benefit society as a whole, in accordance to the University mission. The Department aims to equip students with a solid foundation in computing theory, and to prepare them for lifelong independent learning and innovative thinking in a constantly changing discipline. Its faculty members strive to maintain professional currency, and to involve students and colleagues in their research investigations. These endeavors support the University mission to transmit, pursue, and discover knowledge in an atmosphere of collegiality in the university community. Supported by a liberal arts education, the Department seeks to develop the total person, sensitive to social and ethical concerns affected by the computing discipline, and committed to addressing the needs of a diverse and interconnected modern society.

Cybersecurity Minor

Chair: Daniel Joyce, Ph.D.

Office Location: Mendel Science Center Rm. 161

Telephone: (610) 519-7307

[Website](#)

Engineering Students should contact:

Minor Director: Danai Chasaki, Ph.D.

Office Location: Drosdick Hall

Telephone: (610) 519-4979

Email: danai.chasaki@villanova.edu

About

The Department of Computing Sciences seeks to provide outstanding education, to advance scholarship, and to engage in activities that benefit society as a whole, in accordance to the University mission. The Department aims to equip students with a solid foundation in computer science, and to prepare them for lifelong independent learning and innovative thinking in a

constantly changing discipline. Its faculty members strive to maintain professional currency, and to involve students and colleagues in their research investigations. These endeavors support the University mission to transmit, pursue, and discover knowledge in an atmosphere of collegiality in the university community. Supported by a liberal arts education, the Department seeks to develop the total person, sensitive to social and ethical concerns affected by the computing discipline, and committed to addressing the needs of a diverse and interconnected modern society.

Program Computing Sciences
Degree Type Minor

MINOR: Cybersecurity (26 credits)

Offered jointly through the Departments of Computing Sciences in the College of Liberal Arts and Sciences and Electrical and Computer Engineering in the College of Engineering. The program provides students with a solid foundation in the principles of cybersecurity; equips students with the technical skills and knowledge to address constantly evolving cybersecurity threat; promotes independent study and self-reliance so students can keep pace with rapid technological advancement; and prepares graduates to enter the workforce as cybersecurity professionals

Program Notes:

- Courses that fulfill minor requirements may be used to fulfill other requirements (i.e., primary major, core curriculum, minors, concentrations, or free electives).
- Computer Science majors: at least two of the courses taken for the minor may *not* also be applied to the major. They must be used as free electives.
- Topics, capstone, and independent study courses must be in the cybersecurity area and approved by the cybersecurity minor curriculum committee.

Course	Title	Credits
CSC 3010	Overview of Cybersecurity	3
	Algorithms & Data Structures	8
CSC 1300	Discrete Structures	3
	Core Cybersecurity Electives	9
	Cybersecurity Networks Course	3

Algorithms & Data Structures

Elective Credits 8

Students select from either Option A or Option B below.

Option A

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4
CSC 1052	Algorithms & Data Struc II	4

Option B

Course	Title	Credits
ECE 1260	EGR Prog and Applic	3
ECE 1261	EGR Prog and Applic Lab	1
ECE 2160	C++ Algorithms & Data Struct	3
ECE 2161	C++ Algorithms&Data Struct 1 Lab	

Core Cybersecurity Electives

Elective Credits 9

Select three courses which have the Cybersecurity minor elective attribute [CYBE].

- Topics courses with distinct content may be repeated for additional credit.
- Student can request permission from the Cybersecurity committee to use other courses related to computing as an elective.

Cybersecurity Networks Course

Elective Credits 3

Select one course from those listed below.

Course	Title	Credits
CSC 4900	Networks and Security	3
ECE 3180	Computer Networks	3
ECE 3476	Computer and Network Security	3

Engineering

Chemical Engineering, B.S.

Chemical and Biological Engineering Chair:
Christopher Kitchens, Ph.D
Office: 236B Drosdick Hall
Telephone: 610-519-5498
Email: chris.kitchens@villanova.edu

About

- Bachelor of Science in Chemical Engineering

- Bachelor of Science in Chemical Engineering, Honors.

The chemical engineer typically uses the principles of mathematics, chemistry, biology, physics and engineering sciences to creatively solve technical and commercial problems arising in the design and operation of industrial scale processes. These solutions must respond to economic constraints and address social, ethical, environmental and safety implications. Industrial scale processes can include fuels, bulk chemicals, polymers, foods and pharmaceuticals (including protein, gene and cell-based therapies). Graduates are prepared to think critically and apply their skills in chemical and biological engineering to fields such as sustainability, entrepreneurship, manufacturing, research and development, finance, management and patent law.

Mission Statement

The Chemical & Biological Engineering Department is committed to providing undergraduate and graduate students with effective and innovative educational experiences that prepare them to address the technological, professional, and societal opportunities in their careers. Rooted in Augustinian Catholic values, the Department cultivates leaders who integrate ethical responsibility, a collaborative spirit, and the pursuit of knowledge to design solutions that serve the common good. The Department brings value to the Villanova community and the broader world through research that advances engineering and scientific knowledge.

Program Educational Objectives

Consistent with the University's Augustinian Catholic mission that values broadly educated, well-rounded individuals, recent graduates of the Chemical Engineering program are prepared to:

- Conduct themselves in a manner that recognizes their professional and ethical responsibilities to society.
- Apply their technical capabilities and interpersonal skills to collaborate and succeed in their chosen career.
- Leverage professional opportunities that facilitate their continued learning and career growth.

Curricular Philosophy

The early years of the chemical engineering curriculum includes a strong humanities component while emphasizing the basic principles of natural and engineering sciences. Later courses relate these skills to chemical engineering applications including the solution of open-ended problems constrained by requirements such as economics, safety, and sustainability. Courses develop students' abilities with the complexity of design experiences systematically increasing throughout the courses in chemical and biological engineering; culminating in the senior process design and process controls courses.

The curriculum includes several engineering, science, and humanities/social science electives, providing flexibility for a student to pursue individual educational and career goals. Chemical and biological engineering electives include opportunities for specialization in traditional and emerging fields of chemical engineering as well as biochemical and biological engineering. Seniors may conduct research for academic credit or complete a six-month co-op. Students develop their academic plan with guidance from a faculty member designated as the student's academic advisor.

133 credits required to complete degree.

Program [Engineering](#)

Degree Type Bachelor of Science

Freshman Year

First Semester

Course	Title	Credits
ACS 1000	Ancients	3
THL 1000	Faith, Reason, and Culture	3
MAT 1500	Calculus I	4
CHM 1103	General Chemistry Lab I	1
CHM 1151	General Chemistry I	4
EGR 1200	Engineering Design Cornerstone	3
EGR 1001	Career Compass IA	0.5

Second Semester

Course	Title	Credits
ACS 1001	Moderns	3
CHE 1102	Material Balances	3
MAT 1505	Calculus II	4
PHY 2400	Physics I Mechanics	3
CHM 1104	General Chemistry Lab II	1
CHM 1152	General Chemistry II	4
EGR 1002	Career Compass IB	0.5

Sophomore Year

First Semester

Course	Title	Credits
MAT 2705	Diff Equation with Linear Alg	4
CHE 2101	Thermodynamics 1	3
CHE 2201	Fluid Dynamics	3
CHE 2301	ChE Computational Methods	3
CHM 2201	Organic Chemistry Lab I	1
CHM 2211	Organic Chemistry I	3
EGR 2003	Career Compass IIA	0.5

Second Semester

Course	Title	Credits
CHE 2102	Thermodynamics 2	3
CHE 2202	Heat Transfer	3
CHE 2402	Technical Communications	3
CHM 2202	Organic Chemistry Lab II	1
CHM 2212	Organic Chemistry II	3
	Elective - Humanities/Social Sci	3
EGR 2004	Career Compass IIB	0.5

Junior Year

First Semester

Course	Title	Credits
CHE 3201	Mass Transfer	3
CHE 3202	Reactor Design	3
CHE 3401	Unit Operations Lab 1	3
	Elective - Chemical Engineering	3
	Elective - Science	3
	Elective - Humanities/Social Sci	3
EGR 3005	Career Compass IIIA	0.5

Second Semester

Course	Title	Credits
CHE 3301	ChE Applied Mathematics	3
CHE 3402	Unit Operations Lab 2	3
CHM 3402	Physical Chem Lab II	1
CHM 3416	Physical Chem for Engineers	3
	Elective - Ethics (for Chemical Engineering)	3
	Elective - Chemical Engineering	3
EGR 3006	Career Compass IIIB	0.5

Senior Year

First Semester

Course	Title	Credits
CHE 4201	Process Design	3
	Elective - Chemical Engineering	3
	Elective - Chemical Engineering	3
	Elective - Science	3

Second Semester

Course	Title	Credits
CHE 4202	Process Controls	3
	Elective - THL (2000 or above)	3
	Elective - THL/PHI	3
	Elective - Chemical Engineering	3
	Elective - Free	3

Academic Requirements

Students must earn a minimum grade of C- in all required CHE (Chemical Engineering) courses to satisfy the degree requirements.

These courses include the following:

[CHE 1102 Material Balances](#)

[CHE 2101 Thermodynamics 1](#)

[CHE 2102 Thermodynamics 2](#)

[CHE 2201 Fluid Dynamics](#)

[CHE 2202 Heat Transfer](#)

[CHE 2301 ChE Computational Methods](#)

[CHE 2402 Technical Communications](#)

[CHE 3201 Mass Transfer](#)

[CHE 3202 Reactor Design](#)

[CHE 3301 ChE Applied Mathematics](#)

[CHE 3401 Unit Operations Lab 1](#)

[CHE 3402 CHE Unit Operations Lab 2](#)

[CHE 4201 Process Design](#)

[CHE 4202 Process Controls](#)

A student earning a grade of D+, D, or D- in a required CHE course must retake that course and earn a minimum grade of C- to satisfy the degree requirement.

If an approved equivalent course is taken at another institution, a minimum grade of C is required to transfer the credits to Villanova. Students requesting to take a course elsewhere should complete the appropriate form which can be found on the [Current Engineering Undergraduate Students Intranet site](#).

A student earning a grade of F in a required CHE course that is a prerequisite for a subsequent required CHE course may not enroll in the subsequent course until the prerequisite requirement is satisfied.

For Chemical Engineering Elective courses or courses offered by other departments, a minimum passing grade of D- is sufficient for the course to satisfy a degree requirement.

Elective - Humanities/Social Sci

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select one humanities or social science elective from the list below:

Humanities

- Arab & Islamic Studies
- Art History
- Classical Studies
- Communications
- Ethics
- English (excluding internship courses)
- Global Interdisciplinary Studies
- History
- Honors Program (eligible students only)
- Humanities
- Modern Languages (except speaking courses in native language)
- Philosophy
- Theatre
- Theology (2000 and above or course section with core theology attribute)

Social Sciences

- Criminology
- Economics
- Geography and the Environment (courses with Core Social Science or Sustainability-Humanities STEM attribute)
- Humanities: HUM designated PSC
- Peace and Justice
- Political Science
- Public Administration
- Psychology
- Sociology
- Gender and Women's Studies

Elective - Chemical Engineering

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

- AP credit cannot satisfy a Chemical Engineering Elective.
- Chemical Engineering Electives are typically only available to Juniors and Seniors.
- Students must take both Senior Project Studio courses if selected.
- Seniors must have special permission to take Chemical Engineering Graduate Courses (CHE \geq 7000).
 - Students requesting permission to take a graduate level course should complete the appropriate form which can be found in the [Current Engineering Undergraduate Students Intranet site](#).
- Any graduate level course counted towards a B.S. degree cannot also be counted towards an M.S. degree.
- For Chemical Engineering Electives or courses offered by other departments, a minimum passing grade of D- is sufficient for the course to satisfy a degree requirement.
- Electives are available based upon instructor availability and student demand.
- A maximum of one "Other Approved Technical Courses" outside of Chemical Engineering may be used to satisfy the Chemical Engineering Elective course requirement.

Advanced Chemical Engineering

Course	Title	Credits
CHE 5032	Equipment Design & Spec.	3
CHE 5062	Chemical Engineering Economics	3
CHE 5132	Transport Phenomena	3
CHE 5232	Industrial Catalytic Processes	3
CHE 5332	Special Topics in CHE	3
CHE 5725	Carbon Capture and Utilization	3

Biological Engineering

Course	Title	Credits
CHE 5133	Brewing Science & Tech	3
CHE 5530	Gene Therapy Methods & Research	3
CHE 5532	Intro to Biotechnology	3
CHE 5533	Bioseparations	3
CHE 5534	Biomaterials	3
CHE 5535	Bioengineering Lab Techniques	3
CHE 5536	Biochemical Data Analysis	3
CHE 5540	Cellular Engineering	3
CHE 5545	Tissue Engineering	3
CHE 5550	Synthetic Biology	3

Advanced Materials Engineering

Course	Title	Credits
CHE 5534	Biomaterials	3
CHE 5632	Polymer Sci and Engr	3
CHE 5633	Nanomaterials & Surface Scienc	3
CHE 5634	Intro to Material Science	3

Industry Sponsored Research/Design

Course	Title	Credits
CHE 4831	Senior Project Studio I	3
CHE 4832	Senior Project Studio II	3
CHE 6000	CBE Co-Op	6

Sustainable Engineering

Course	Title	Credits
CHE 5001	Industrial Liq & Sld Waste	3
CHE 5002	Prin of Air Pol Control	3
CHE 5715	Alternative Energy	3
CHE 5725	Carbon Capture and Utilization	3

Other Approved Technical Courses

Maximum one course from the list below.

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4
EGR 2021	Elements of Biomedical Engr	3
NS 2100	Naval Ships Systems I	3
SUSE 2111	Sus Eng: LCA & Circular Econ	3

Elective - Science

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

- Science elective options should be discussed with a student's academic advisor.
- A student may request that a science course not on the approved list be reviewed and considered as a special exception for a science elective.
- Pre-requisites for science courses must be met, and the CBE Department cannot guarantee admission to a course offered by another department.

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
BIO 3055	Human Physiology	4
BIO 3105	Experimental Design & Analysis	4
BIO 3155	Comparative Anatomy	4
BIO 3255	Evolutionary Ecology	4
BIO 3351	Genetics	4
BIO 3455	Histology	4
BIO 3485	Marine Biology	4
BIO 3591	General Microbiology Lecture	3
BIO 3595	General Microbiology	4
BIO 3661	Environment and Human Health	3
BIO 4105	Medical Microbiology	4
BIO 4205	Cell Biology	4
BIO 4251	Endocrine Physiol/ Pharmacology	3
BIO 4285	Developmental Biology	4
BIO 4305	Evolution	4
BIO 4331	Biology of Cancer	3
BIO 4355	Experimental Genetics	4
BIO 4505	Molecular Biology	4
BIO 4605	Neurobiology	4
CHM 3311	Inorganic Chem II	3
CHM 3417	Biophysical Chemistry	3
CHM 3511	Instrumental Analysis	3
CHM 3514	Bioanalytical Chemistry	3
CHM 4292	Advanced Organic Chemistry	3
CHM 4611	Survey of Biochemistry	3
CHM 4621	Biochemistry I: Structure	3
CHM 4622	Biochemistry II: Metabolism	3
CHM 4623	Biochemistry III	3
CHM 4652	Biochemical Basis of Disease	3
PHY 2402	Physics II Elec & Magnet	3
PHY 3310	Electronics	3
EGR 2020	Physiology for Engineers	3
GEV 1053	Environmental Studies II	3
GEV 2310	Environmental Chemistry	4

Elective - Ethics (for Chemical Engineering)

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Course	Title	Credits
ETH 2050	The Good Life: Eth & Cont Prob	3
NS 4200	Leadership and Ethics	3
PHI 2115	Ethics for Health Care Prof	3
PHI 2121	Environmental Ethics	3
PHI 2155	Engineering Ethics	3
PHI 2160	The Ethics of War	3
PHI 2180	Computer Ethics	3
PHI 2550	Technology & Society	3
PHI 4125	Bioethics	3
THL 4100	THM Catholic Ethics	3
THL 4200	Ethics of Life and Death	3
THL 4330	Christian Environmental Ethics	3
VSB 2007	Corp Respon & Regulation	3

Elective - THL (2000 or above)

Elective Credits 3

Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above.

Elective - THL/PHI

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

One 3-credit course from:

- Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above
- Philosophy (PHI)
- Peace and Justice (PJ)
- [ETH 2050](#) - The Good Life: Ethics & Cont Prob
- [EGR 2930](#) - Catholic Social Teaching for EGRs
- Any Humanities or Social Science course with a PJ (Peace and Justice) attribute

Elective - Free

Elective Credits 3

Any Villanova three credit course or Villanova courses that when combined add up to a minimum of three credits (for example, three 1-credit Honors courses)

Civil Engineering, B.S.

Civil and Environmental Engineering Chair: Eric Musselman, Ph.D
Office: 346A Drosdick Hall
Telephone: 610-519-4960
Email: eric.musselman@villanova.edu

About

- Bachelor of Science in Civil Engineering
- Bachelor of Science in Civil Engineering, Honors

Civil engineers are involved in the planning, design, construction, and operation of facilities essential to modern life such as dams, bridges, highways, buildings, airports, harbors, river and shore protection, drinking water supplies, wastewater treatment, solid and hazardous waste management and disposal, offshore structures, and space platforms. Because these projects are often of a magnitude that affects large segments of the population, the responsibility of the civil engineer extends beyond mere physical facilities into the social, political, and economic welfare of those they serve.

Mission Statement

Villanova University's Department of Civil and Environmental Engineering provides our students with a high quality, contemporary, broad-based, personalized civil engineering education within the Augustinian, humanistic context. We prepare our students for professional practice, graduate study, and life-long learning.

Program Educational Objectives

Three to five years after graduation, we expect our graduates to be able to:

- Use their broad-based civil engineering backgrounds to perform as engineers in construction, environmental, geotechnical, structural, transportation, water resources, or general civil engineering.
- Succeed in graduate school in the disciplines listed above or closely related disciplines, as well as other areas such as business and law.

- Continue the process of life-long learning as required for long-term personal and professional growth.
- Serve society by being ethical members of their professional community.
- Use technical and interpersonal skills to help themselves and their employers succeed.
- Relate their personal and professional lives to the Augustinian, humanistic tradition.
- The broad-based curriculum provides flexibility and meets student needs through a selection of electives.

137 credits required to complete degree.

Program [Engineering](#)

Degree Type Bachelor of Science

Freshman Year

First Semester

Course	Title	Credits
ACS 1000	Ancients	3
THL 1000	Faith, Reason, and Culture	3
MAT 1500	Calculus I	4
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
EGR 1200	Engineering Design Cornerstone	3
EGR 1001	Career Compass IA	0.5

Second Semester

Course	Title	Credits
ACS 1001	Moderns	3
CEE 1601	Civil Engineering Fundamentals	4
CHM 1152	General Chemistry II	4
MAT 1505	Calculus II	4
PHY 2400	Physics I Mechanics	3
EGR 1002	Career Compass IB	0.5

Sophomore Year

First Semester

Course	Title	Credits
CEE 2105	Mechanics I:Fund. Behavior	4
CEE 2211	Transportation Engineering	3
CEE 2701	CE Project Development	3
MAT 2500	Calculus III	4
	Elective	3
EGR 2003	Career Compass IIA	0.5

Second Semester

Course	Title	Credits
CEE 2103	Mechanics of Solids	3
CEE 2301	Environmental Eng. Science	4
CEE 2805	Geology for Engineers	3
MAT 2705	Diff Equation with Linear Alg	4
	Elective	3
EGR 2004	Career Compass IIB	0.5

Junior Year

First Semester

Course	Title	Credits
CEE 3107	Mechanics III: Fluid Behavior	4
CEE 3301	Unit Operations/Pro in Env Eng	4
CEE 3802	Soil Mechanics	4
	Elective	3
	Elective	3
EGR 3005	Career Compass IIIA	0.5

Second Semester

Course	Title	Credits
CEE 3401	Structural Analysis	3
CEE 3507	Hydraulic Egr & Hydrology	4
CEE 3903	CE Materials	3
	Elective	3
	Elective	3
EGR 3006	Career Compass IIIB	0.5

Senior Year

First Semester

Course	Title	Credits
CEE 4601	CEE Capstone Design 1	3
	Elective	3
	Elective	3
	Elective	3
	Elective	3

Second Semester

Course	Title	Credits
CEE 4606	CEE Capstone Design 2	3
	Elective	3
	Elective	3
	Elective	3
	Elective	3

Elective

Elective Credits 3

[Electives for CE Majors](#)

Computer Engineering, B.S.

Electrical and Computer Engineering Interim
Chair: Dr. Maggie Wang

Office Location: 318 Drosdick Hall

Telephone: (610) 519-3830

Email: xiaofang.wang@villanova.edu

About

- Bachelor of Science in Computer Engineering
- Bachelor of Science in Computer Engineering, Honors

Computer Engineering is a discipline that bridges the fields of Computer Science and Electrical Engineering. It may be simplistic to state that computer engineers “build computers,” but it is not far from the truth. Computer engineers are unique in having the balanced skills to bring the hardware and software work together. Building computers alone does not begin to describe the scope of computer engineering. Computers are now embedded in smart phones, drones, wireless networks, internet devices, autonomous vehicles and are an integral part of AI, cybersecurity and machine learning. The Villanova computer engineering program is a balanced program bringing together such fundamentals as computer architecture, networks, operating systems, digital electronics, embedded systems as well as electives in biomedical engineering, machine learning and cybersecurity.

Mission Statement

The mission of Villanova University's Department of Electrical and Computer Engineering is to empower students to become leaders in their chosen professions and to prepare them for a life of service to others.

Program Educational Objectives

Consistent with the University's Augustinian Mission that values broadly-educated, and well-

rounded individuals, graduates of the Computer Engineering Program are able to pursue the following career objectives:

- Use their knowledge, analytical, and design skills to generate and validate sustainable and technically appropriate solutions to practical real-world problems in their chosen profession;
- Communicate and work effectively with others having different roles or responsibilities in their professional work environments;
- Continue to develop their professional knowledge and skills throughout their career;
- Succeed in their careers by practicing their chosen discipline with professionalism, care, and integrity.

The curriculum is structured to provide a thorough foundation in the fundamentals of electrical and computer engineering. Analysis and design are emphasized throughout the curriculum, using a project-based structure to teach students how to work on their own and in teams and to synthesize engineering solutions by utilizing their analytical skills and knowledge. Heavy emphasis is placed on developing oral and written communication skills. The curriculum also provides opportunities for an increased awareness of the broader implications of technology and of the social responsibilities of the profession. The design process is emphasized throughout all four years, and design projects are included in the laboratory courses. The sophomore and junior years include core courses that provide a foundation for the senior year, which includes technical and professional electives and an in-depth design project. The computer engineering curriculum not only provides a solid foundation in the core fundamentals but offers the flexibility for students to pursue other professional interests. The curriculum includes professional electives, free elective, science/math elective, computer engineering track electives, and humanities electives to serve this purpose. Students have used this flexibility to pursue minors in business, mechatronics, computer science, cognitive science, physics, astronomy, mathematics, foreign languages, history, and theology, to name a few; although, applying these electives towards a minor/concentration is not a requirement. In addition, students have used the flexibility of the

curriculum to prepare for post-graduate study in medicine, law, business, education, and engineering.

The computer engineering program offers technical elective courses in the following specialized areas: computer architecture, biomedical engineering, computer networks, machine learning, microcontrollers, digital integrated electronics and microfabrication, embedded systems, and computer security.

Students in the computer engineering program acquire experience with computers and their engineering applications, beginning with the engineering programming and applications course in the freshman year and continuing throughout the curriculum in the sophomore-level fundamentals courses, junior-level core courses, and senior-level technical electives. In addition to the activities and services offered by the university and the College of Engineering, the Electrical and Computer Engineering (ECE) Department provides the following additional services and activities for its students: an academic advisor, to assist students with the implementations of their academic plans; the ECE Walk-in Tutoring Office, to assist ECE students with their upper-level courses; and college-level and departmental student organizations.

131 credits required to complete degree.

Program [Engineering](#)

Degree Type Bachelor of Science

Freshman Year

First Semester

Course	Title	Credits
ACS 1000	Ancients	3
THL 1000	Faith, Reason, and Culture	3
CHM 1103	General Chemistry Lab I	1
CHM 1151	General Chemistry I	4
MAT 1500	Calculus I	4
EGR 1200	Engineering Design Cornerstone	3
EGR 1001	Career Compass IA	0.5

Second Semester

Course	Title	Credits
ACS 1001	Moderns	3
MAT 1505	Calculus II	4
PHY 2400	Physics I Mechanics	3
ECE 1205	ECE Freshman Projects	3
ECE 1260	EGR Prog and Applic	3
ECE 1261	EGR Prog and Applic Lab	1
EGR 1002	Career Compass IB	0.5

Sophomore Year

First Semester

Course	Title	Credits
ECE 2170	Fundamentals of CPE	3
ECE 2171	Fundamentals of CPE Lab	1
ECE 2160	C++ Algorithms & Data Struct	3
ECE 2161	C++ Algorithms&Data Struct 1 Lab	
ECE 2260	EGR Prog and Applic II	3
MAT 2705	Diff Equation with Linear Alg4	
CSC 1300	Discrete Structures	3
EGR 2003	Career Compass IIA	0.5

Second Semester

Course	Title	Credits
ECE 2030	Electric Circuits Fundamentals	3
ECE 2031	Elect Circuit Fundamentals Lab	1
ECE 2172	Digital Systems	3
ECE 2173	Digital Systems Lab	1
PHY 2402	Physics II Elec & Magnet	3
	Elective - Ethics	3
	Elective - Math/Science	3
EGR 2004	Career Compass IIB	0.5

Junior Year

First Semester

Course	Title	Credits
CSC 1700	Analysis of Algorithms	3
ECE 2292	Engineering Probability&Stats	3
ECE 3170	Computer Architecture	3
ECE 3171	Computer Architecture Lab	1
ECE 3450	Digital Electronics	3
	Elective - THL (2000 or above)	3
EGR 3005	Career Compass IIIA	0.5

Second Semester

Course	Title	Credits
ECE 3180	Computer Networks	3
ECE 3242	Fundamentals of Signal Process	3
ECE 3476	Computer and Network Security	3
ECE 3600	Operating Systems	3
EGR 3006	Career Compass IIIB	0.5
Course	Title	Credits
ECE 3975	Capstone Design I 3	

Senior Year

First Semester

Course	Title	Credits
	Elective - Technical	3
	Elective - Humanities	3
	Elective - Professional	3
	Elective - Professional	3
Course	Title	Credits
ECE 4975	Capstone Design II 3	

Second Semester

Course	Title	Credits
	Elective - Technical	3
	Elective - Professional	3
	Elective - Professional	3
	Elective - Free	3

Elective - Ethics

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Choose one of the following:

Course	Title	Credits
CRM 1001	Introduction to Criminology	3
ETH 2050	The Good Life:Eth & Cont Prob	3
PHI 2115	Ethics for Health Care Prof	3
PHI 2121	Environmental Ethics	3
PHI 2155	Engineering Ethics	3
PHI 2180	Computer Ethics	3
PHI 2550	Technology & Society	3
PHI 4125	Bioethics	3
NS 4200	Leadership and Ethics	3
VSB 2007	Corp Respon & Regulation	3

Elective - Math/Science

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Choose one of the following:

- AST 1072, 1074, [2120](#), [2121](#), [2122](#)
- BIO 1055 through 8999
- CHM 1152 through 8999
- [GEV 1050](#), [1051](#), [1750](#)
- [MAT 2500](#), [2600](#), 3000 through 8999
- [MET 1221](#), [1222](#)
- [NS 3100](#)
- [PHY 2414](#), [2416](#), 4000-8999

Elective - THL (2000 or above)

Elective Credits 3

Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above.

Elective - Technical

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

The three Computer Engineering Technical Electives can be taken from the list of approved

classes below. A student can take all three electives from the ECE department or two ECE classes and one CSC class. If a student wishes to take a second CSC class as one of their three technical electives they must get permission from the Chair of the Electrical and Computer Engineering Department.

- Seniors can substitute ECE Graduate Level Courses (ECE ≥ 7000) by completing the Permission to Register for Engineering Graduate Course Form. The form can be found on the [Current Engineering Undergraduate Students Intranet site](#).

Course	Title	Credits
ECE 5250	Biomedical Instrumentation	3
ECE 5251	Biomedical Signal Processing	3
ECE 5170	Intro to Post-Quantum Computin	3
ECE 5172	Fund of Digitl Hardware Design	3
ECE 5400	Applied Machine Learning	3
ECE 5450	Microcontrollers & Applic	3
CSC 4300	Computer Graphics	3
CSC 4480	Principles of Database Systems	3
CSC 4500	Artificial Intelligence	3
CSC 4510	Machine Learn&Theory&Evolution	3
CSC 4630	Software Dev and Systems	3
CSC 4700	Software Engineering	3
CSC 4810	Mobile App Development	3

Elective - Humanities

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

One three credit course from:

- Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above
- Philosophy (PHI)
- Peace and Justice (PJ)
- [ETH 2050 - The Good Life: Ethics & Cont Prob](#)
- [EGR 2930 - Catholic Social Teaching for EGRs](#)
- Any Humanities or Social Science course with a PJ (Peace and Justice) attribute.

Elective - Professional

Elective Credits 3

Any Villanova course at the 2000 level or above.
No AP credits allowed.

Elective - Free

Elective Credits 3

Any Villanova three credit course or Villanova courses that when combined add up to a minimum of three credits (for example, three 1-credit Honors courses)

Electrical Engineering, B.S.

Electrical and Computer Engineering Interim
Chair: Dr. Maggie Wang
Office Location: 318 Drosdick Hall
Telephone: (610) 519-3830
Email: xiaofang.wang@villanova.edu

About

- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Electrical Engineering, Honors

Electrical Engineering is traditionally associated with the generation and distribution of power. While this is still true today, the field has branched out into numerous areas that may not be easily identified with electrical engineering,

such as radio frequency (RF) systems, telecommunications, remote sensing, signal processing, digital circuits, instrumentation, audio, video and optoelectronics, satellites, GPS, radar and navigation, biomedical engineering and devices as well as renewable energy sources. The Villanova electrical engineering curriculum touches upon every one of these technology areas.

Mission Statement

The mission of Villanova University's Department of Electrical and Computer Engineering is to empower students to become leaders in their chosen professions and to prepare them for a life of service to others.

Program Educational Objectives

Consistent with the University's Augustinian Mission that values broadly-educated, and well-rounded individuals, graduates of the Electrical Engineering Program are able to pursue the following career objectives:

- Use their knowledge, analytical, and design skills to generate and validate sustainable and technically appropriate solutions to practical real-world problems;
- Communicate and work effectively with others having different roles or responsibilities in their professional work environments;
- Continue to develop their professional knowledge and skills throughout their career;
- Succeed in their career by practicing their chosen discipline with professionalism, care, and integrity.

The curriculum is structured to provide a thorough foundation in the fundamentals of electrical and computer engineering. Analysis and design are emphasized throughout the curriculum, using a project-based structure to teach students how to work on their own and in teams and to synthesize engineering solutions by utilizing their analytical skills and knowledge. Heavy emphasis is placed on developing oral and written communication skills. The curriculum also provides opportunities for an increased awareness of the broader implications of technology and of the social responsibilities of the profession. The design process is emphasized throughout all four years, and design projects are

included in the laboratory courses. The sophomore and junior years include core courses that provide a foundation for the senior year, which includes technical and professional electives and an in-depth design project.

The electrical engineering program offers technical elective courses in the following specialized areas: microwave networks and high-frequency circuit design, digital signal processing, linear integrated electronics, communication electronics, optoelectronics, digital integrated electronics and microfabrication, embedded systems, control systems, electric machines and power systems, electronic measurement and conversion, and renewable energy systems.

Students in the electrical engineering program acquire experience with computers and their engineering applications, beginning with the engineering programming and applications course in the freshman year and continuing throughout the curriculum in the sophomore-level fundamentals courses, junior-level core courses, and senior-level technical electives.

In addition to the activities and services offered by the university and the College of Engineering, the Electrical and Computer Engineering (ECE) Department provides the following additional services and activities for its students: an academic advisor, to assist students with the implementations of their academic plans; the ECE Walk-in Tutoring Office, to assist ECE students with their upper-level courses; and college-level and departmental student organizations.

132 credits required to complete degree.

Program [Engineering](#)

Degree Type Bachelor of Science

Freshman Year

First Semester

Course	Title	Credits
ACS 1000	Ancients	3
THL 1000	Faith, Reason, and Culture	3
MAT 1500	Calculus I	4
CHM 1103	General Chemistry Lab I	1
CHM 1151	General Chemistry I	4
EGR 1200	Engineering Design Cornerstone	3
EGR 1001	Career Compass IA	0.5

Second Semester

Course	Title	Credits
ACS 1001	Moderns	3
MAT 1505	Calculus II	4
PHY 2400	Physics I Mechanics	3
ECE 1205	ECE Freshman Projects	3
ECE 1260	EGR Prog and Applic	3
ECE 1261	EGR Prog and Applic Lab	1
EGR 1002	Career Compass IB	0.5

Sophomore Year

First Semester

Course	Title	Credits
ECE 2030	Electric Circuits Fundamentals	3
ECE 2031	Elect Circuit Fundamentals Lab	1
MAT 2705	Diff Equation with Linear Alg	4
PHY 2402	Physics II Elec & Magnet	3
PHY 2403	Phy Lab for Engineering	1
	Elective - Ethics	3
EGR 2003	Career Compass IIA	0.5

Second Semester

Course	Title	Credits
ECE 2170	Fundamentals of CPE	3
ECE 2171	Fundamentals of CPE Lab	1
ECE 2292	Engineering Probability&Stats	3
ECE 2530	Analog Electronics I	3
ECE 2531	Analog Electronics I Lab	1
MAT 2500	Calculus III	4
EGR 2004	Career Compass IIB	0.5

Junior Year

First Semester

Course	Title	Credits
ECE 2172	Digital Systems	3
ECE 2173	Digital Systems Lab	1
ECE 3020	Intro to Electric Energy Syste	3
ECE 3242	Fundamentals of Signal Process	3
ECE 3530	Analog Electronics II	3
ECE 3531	Analog Electronics II Lab	1
	Elective - Professional	3
EGR 3005	Career Compass IIIA	0.5

Second Semester

Course	Title	Credits
ECE 3000	Engr Systems Models & Control	3
ECE 3001	Engr Systems Model&Control Lab	1
ECE 3030	Engr Electromagnetics	3
ECE 3031	Engr Electromagnetics Lab	1
ECE 3040	Electrical Communications	3
	Elective - Professional	3
EGR 3006	Career Compass IIIB	0.5

Course Title Credits
ECE 3975 Capstone Design I 3

Senior Year

First Semester

Course	Title	Credits
	Elective - EE Track	3
	Elective - Science, Technical or Math	3
	Elective - Professional	3
	Elective - Humanities	3

Course Title Credits
ECE 4975 Capstone Design II 3

Second Semester

Course	Title	Credits
	Elective - EE Track	3
	Elective - Professional	3
	Elective - Free	3
	Elective - THL (2000 or above)	3
	Elective - ECE 5000 or above	3

Elective - Ethics

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Choose one of the following:

Course	Title	Credits
CRM 1001	Introduction to Criminology	3
ETH 2050	The Good Life:Eth & Cont Prob	3
PHI 2115	Ethics for Health Care Prof	3
PHI 2121	Environmental Ethics	3
PHI 2155	Engineering Ethics	3
PHI 2180	Computer Ethics	3
PHI 2550	Technology & Society	3
PHI 4125	Bioethics	3
NS 4200	Leadership and Ethics	3
VSU 2007	Corp Respon & Regulation	3

Elective - Professional

Elective Credits 3

Any Villanova course at the 2000 level or above. No AP credits allowed.

Elective - EE Track

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Track Electives chosen from one of following tracks: Biomedical Engineering, Electric Energy Systems, Embedded Systems and Control, High Frequency Electronics, Signal Processing.

Biomedical Engineering

Foundation Course: [ECE 3242](#)

Faculty Advisor: Dr. Meltem Izzetoglu

Course	Title	Credits
ECE 5250	Biomedical Instrumentation	3
ECE 5251	Biomedical Signal Processing	3
ECE 5252	Medical Imaging	3
ECE 5770	Organs-on-a-Chip	3

Electric Energy Systems

Foundation Course: [ECE 3020](#)

Faculty Advisor: Dr. Pritpal Singh

Course	Title	Credits
Graduate Level Courses:		

Course	Title	Credits
ECE 7000	Renewable Energy Policy	3

Embedded Systems and Control

Foundation Courses: [ECE 3000](#) & [ECE 3001](#)

Faculty Advisor: Dr. Peyton Jones

Course	Title	Credits
ECE 5390	Control System Design	4
ECE 5450	Microcontrollers & Applic	3

High Frequency Electronics

Foundation Courses: [ECE 3030](#) & [ECE 3530](#)

Faculty Advisor: Dr. Ahmad Hoorfar

Course	Title	Credits
ECE 5690	Microwave Networks	4
ECE 5730	RF Circuit Design	3

Signal Processing

Foundation Course: [ECE 3242](#)

Faculty Advisor: Dr. Mojtaba Vaezi

Course	Title	Credits
ECE 5040	Deep Lrning Methd Wireless Com	3
ECE 5251	Biomedical Signal Processing	3

Graduate Level Courses:

Course	Title	Credits
ECE 7231	Applied DSP	3

Elective - Science, Technical or Math

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Choose one of the following:

- **AST 1072, 1074, [2120](#), [2121](#), [2122](#), [2123](#)**
- BIO 1055 through 9999
- CEE 2000 through 9999
- CHE 2000 through 9999
- CHM 1152 through 9999
- CSC 1152 through 9999
- ECE (a course in addition to the required ECE courses in the curriculum)
- [ECO 3138](#)
- [GEV 1050](#), [1051](#), [1750](#)
- [MAT 2600](#), 3000 through 9999
- [ME 2100](#), [2101](#), [3100](#), [3102](#), [5411](#), [5421](#)
- [MET 1221](#), [1222](#)
- [MIS 2020](#), [2030](#), [2040](#), [3020](#), [3030](#), [3050](#)
- [NS 3100](#)
- [PHY 2414](#), [2416](#), 4000 through 9999

Elective - Humanities

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

One three credit course from:

- Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above
- Philosophy (PHI)
- Peace and Justice (PJ)
- [ETH 2050 - The Good Life: Ethics & Cont Prob](#)
- [EGR 2930 - Catholic Social Teaching for EGRs](#)
- Any Humanities or Social Science course with a PJ (Peace and Justice) attribute.

Elective - Free

Elective Credits 3

Any Villanova three credit course or Villanova courses that when combined add up to a minimum of three credits (for example, three 1-credit Honors courses)

Elective - THL (2000 or above)

Elective Credits 3

Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above.

Elective - ECE 5000 or above

Elective Credits 3

Any ECE course at the 5000 level or above.

Mechanical Engineering, B.S.

Mechanical Engineering Chair: Qianhong Wu, Ph.D.

Office: 221 Drosdick Hall
Telephone: 610-519-8969
Email: qianhong.wu@villanova.edu

About

- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Mechanical Engineering, Honors

Mechanical Engineers apply the principles of solid mechanics, thermal fluid sciences, dynamics and control, material science and manufacturing science to the analysis and design of systems of all types. In applying this technical knowledge to fields such as energy systems, nanomanufacturing and robotics, the mechanical engineer must consider economic constraints and the social and ecological implications of solutions imposed. The mechanical engineering curriculum offers the student an opportunity to pursue educational objectives within the framework of this broad theme.

Mission Statement

We are committed to providing a rigorous educational experience in the discipline of mechanical engineering, graduating well-rounded leaders and life-long learners, who aspire to achieving professional excellence. We are *equally* committed to the discovery, dissemination, advancement and application of cutting-edge research. Inspired by the Augustinian tradition, we value an inclusive and diverse community in which we prepare our students to demonstrate the highest ethical conduct and contribute to the well-being of humankind.

Program Educational Objectives

Our graduates will:

- Be valued members of their organizations because of their skills and abilities as mechanical engineers;
- Solve complex technical problems and/or design systems that are useful to society by applying the fundamental scientific principles that underpin the mechanical engineering profession;
- Advance in their chosen career paths by utilizing technical, leadership, communication, and interpersonal skills, with the highest ethical standards;

- Apply their knowledge and skills to successfully practice professions of their choice;
- Demonstrate professional and personal growth by pursuing or successfully completing an advanced degree, professional development courses, and/or engineering certification;
- Be actively engaged in service to their professions and communities, consistent with the tradition of St. Augustine.

The first year of the mechanical engineering program is devoted to laying a foundation of mathematics, physical science, and the general engineering sciences. The final three years are devoted primarily to mechanical engineering topics. The required courses span the field of mechanical engineering, and electives provide the opportunity to pursue specific areas of mechanical engineering in greater depth through technical concentrations which include Mechanics and Materials, Thermal/Fluid Systems, and Dynamic Systems. A student opting for a technical concentration will first take an elective in the junior year which corresponds to their selected technical concentration. Each student will then customize the program of study by choosing four courses (12 credit hours) of technical electives in the senior year. To complete the technical concentration, two of these mechanical engineering technical electives must be selected from the designated set of concentration classes. In addition, the student must take the senior laboratory course from their technical concentration. A student who completes a technical concentration will have the concentration indicated on the final transcript. Students who do not opt for a concentration will still take a junior year restricted elective and a senior lab; the four senior year mechanical engineering electives can be chosen freely from all offerings.

The engineering design process is emphasized throughout the program and culminates with a senior year project that requires a synthesis of basic principles learned in previous courses.

Throughout the curriculum the technical courses are balanced by a careful selection of humanities courses to ensure that the effects of technology on society are given due consideration in design.

A faculty advisor is assigned to each student at the beginning of their first-year to provide

academic and career guidance for the remainder of the student's years in the program until graduation. The advisor should be consulted regarding such topics as electives, minors or concentrations, graduate studies, undergraduate research, and completion of degree requirements for graduation.

131 credits required to complete degree.

Program [Engineering](#)

Degree Type Bachelor of Science

Freshman Year

First Semester

Course	Title	Credits
ACS 1000	Ancients	3
THL 1000	Faith, Reason, and Culture	3
CHM 1103	General Chemistry Lab I	1
CHM 1151	General Chemistry I	4
MAT 1500	Calculus I	4
EGR 1200	Engineering Design Cornerstone	3
EGR 1001	Career Compass IA	0.5

Second Semester

Course	Title	Credits
ACS 1001	Moderns	3
MAT 1505	Calculus II	4
PHY 2400	Physics I Mechanics	3
ME 1201	Intro to Comp Aid Design&Draft	1
ME 1205	Computer Program for Mech 3 Engr	
	Elective	3
EGR 1002	Career Compass IB	0.5

Sophomore Year

First Semester

Course	Title	Credits
MAT 2500	Calculus III	4
ME 2100	Statics	3
ME 2505	M.E. Analysis & Design	4
PHY 2402	Physics II Elec & Magnet	3
PHY 2403	Phy Lab for Engineering	1
EGR 2003	Career Compass IIA	0.5

Second Semester

Course	Title	Credits
MAT 2705	Diff Equation with Linear Alg	4
ME 2900	ME Laboratory I	1
ME 3100	Thermodynamics	3
ME 2103	Mechanics of Materials	3
ME 2101	Dynamic Systems I	3
COM 1102	COM Foundations for Engrs	3
EGR 2004	Career Compass IIB	0.5

Junior Year

First Semester

Course	Title	Credits
ECE 2030	Electric Circuits Fundamentals	3
ECE 2031	Elect Circuit Fundamentals Lab	1
ME 3102	Dynamic Systems II	3
ME 3402	Solid Mechanics & Design I	3
ME 3600	Fluid Mechanics	3
ME 3950	Heat Transfer I	3
EGR 3005	Career Compass IIIA	0.5

Second Semester

Course	Title	Credits
ME 3300	Materials Science I	3
ME 3333	Manufacturing Engineering	3
ME 3900	ME Laboratory II	1
	Elective - Restricted ME	3
	Elective	3
	Elective	3
EGR 3006	Career Compass IIIB	0.5

Senior Year

First Semester

Course	Title	Credits
ME 5005	Capstone Design I	2
	Elective - ME/Concentration	3
	Elective - Career/ME	3
	Elective - Restricted ME Lab	1
	Elective	3
	Elective	3

Second Semester

Course	Title	Credits
ME 5006	Capstone Design II	2
	Elective - ME/Concentration	3
	Elective - Career/ME	3
	Elective	3
	Elective	3

Elective

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select one course from each of the elective groups below.

One Theology or Philosophy Elective

Select one theology or philosophy course (3 or more credits) from the list below:

- Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above
- Philosophy (PHI)
- Peace and Justice (PJ)
- [ETH 2050](#) - The Good Life: Ethics & Cont Prob
- [EGR 2930](#) - Catholic Social Teaching for EGRs
- Any Humanities or Social Science course with a PJ (Peace and Justice) attribute

One Upper Level Theology Elective

Select one upper level theology course (3 or more credits) from the list below:

- Theology (THL) course at the 2000 level or above
- Course with CTHL (Core Theology) attribute at the 2000 level or above

One Humanities and Social Science Elective

Select one humanities or social science course (3 or more credits) from the list below:

Humanities:

- Arab & Islamic Studies
- Art History
- Classical Studies
- Communications
- Ethics
- English - ENG 1050, 1975, 2100-9999
- Global Interdisciplinary Studies
- History
- Honors Program (eligible students only)
- Humanities
- Modern Languages (except speaking courses in native language)
- Philosophy
- Theatre
- Theology (2000 and above or course section with CTHL Core Theology attribute)

Social Sciences:

- Criminology
- Economics
- Geography and the Environment - GEV 1002, 1500-3900, 4050-5300
- Humanities: HUM designated PSC
- Peace and Justice
- Political Science
- Public Administration
- Psychology
- Sociology
- Gender and Women's Studies

One Science Elective

Select one science course (3 or more credits) from the list below:

- BIO >1200
- CHM >1151
- AST >2000
- PHY >2415

One Ethics Elective

Any (3-credit) ETH > 2000 course from ethics department, or any course with Ethics (ETH) attribute, or an ethics course from the students minor (including [NS 4200](#) & [VSB 2007](#)), or a course from other departments with a focus on ethical issues such as [EGR 2001](#) and those with the word ethics in the title.

One Statistics Elective

Course	Title	Credits
STAT 4310	Stat Methods	3
STAT 5700	Probability	3

One Free Elective

Any three- or more credit course or any combination of one- and two-credit courses (adding up to three credits or more) from Villanova University.

Elective - Restricted ME

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

If a concentration is chosen, students must take the appropriate courses in their concentration, including the below:

- Restricted ME Elective
- Restricted ME Lab
- Six credits from the approved list of courses for the concentration

Course	Title	Credits
ME 3103	Dynamic Systems III	3
ME 3403	Solid Mechanics & Design II	3
ME 4850	Thermal-Fluid System Design	3

Elective - ME/Concentration

Elective Credits 3

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

- If obtaining a concentration, both courses must come from that concentration. [View all concentration electives below.](#)
- Any ME 5000 through 8999 course for others.

Note: Graduate courses are subject to additional requirements. [ME 5000](#) and [ME 5001](#) require approval from the department chair and the advisor.

Solid Mechanics Concentration Electives

Course	Title	Credits
ME 5000	Selected Topics in ME	3
ME 5001	ME Undergraduate Research I	3
ME 5201	Intro to Finite Elements	3
ME 5206	Aircraft Design	3
ME 5500	Biomechanics	3

Graduate Level Courses:

Course	Title	Credits
ME 7000	Advanced Engineering Analysis	3
ME 7002	Continuum Mechanics	3
ME 7030	Num Methods for Eng Simulation	3
ME 7040	Intro to Finite Element analysis	3
ME 7070	Aero Vehicle Struc Analysis and Des	3
ME 7250	Nano/Microscale Mater Behavior	3
ME 7260	Mechanic Behavior of Materials	3
ME 7270	Polymer Engineering	3
ME 7280	Additive Manufacturing	3
ME 7501	Reinforced Comp Materials	3
ME 7502	Fiber Composite Structures	3
ME 7550	Biomechanics of Hard Tissues	3
ME 7560	Biomechanics of Soft Tissues	3
ME 8040	Adv Fin Element Analysis	3
ME 8200	Elasticity & Stress Analysis	3
ME 8350	Applied Fracture Mechanics	3

Dynamic Systems Concentration Electives

Course	Title	Credits
ME 5000	Selected Topics in ME	3
ME 5001	ME Undergraduate Research I	3
ME 5201	Intro to Finite Elements	3
ME 5205	Flight Dynamics	3
ME 5206	Aircraft Design	3
ME 5207	Orbital Mechanics	3
ME 5411	Mechatronics	3
ME 5421	Introduction to Robotics	3
ME 5441	Advanced System Modeling	3

Graduate Level Courses:

Course	Title	Credits
ME 7000	Advanced Engineering Analysis	3
ME 7030	Num Methods for Eng Simulation	3
ME 7040	Intro to Fin Element Analysis	3
ME 7060	Multiphysics Sys Modelng & Sim	3
ME 7205	Advanced Dynamics	3
ME 7206	Dynamics of Rotating Machinery	3
ME 7207	Simulation of Multibody System	3
ME 8000	Adv. Engineering Analysis II	3
ME 8204	Robotics: Analysis & Control	3
ME 8207	Vibration Analysis	3
EGR 8301	Control Systems Engineering	3
EGR 8302	Digital Control	3
EGR 8304	Nonlinear Control	3
EGR 8305	System Identification	3
EGR 8306	Nonlinear Dynamics	3
EGR 8308	Feedforward Control	3
EGR 8309	Adv Topics in Dynam & Control	3
EGR 8310	Optimization for Engineers	3
EGR 8311	Machine Learning for Engineers	3

Thermal/Fluids Concentration Electives

Course	Title	Credits
ME 5000	Selected Topics in ME	3
ME 5001	ME Undergraduate Research I	3
ME 5101	Elements of Aerodynamics	3
ME 5102	Compressible Fluid Flow	3
ME 5130	Intro to Sustainable Energy	3
ME 5201	Intro to Finite Elements	3
ME 5206	Aircraft Design	3
ME 5441	Advanced System Modeling	3

Graduate Level Courses:

Course	Title	Credits
ME 7000	Advanced Engineering Analysis	3
ME 7002	Continuum Mechanics	3
ME 7030	Num Methods for Eng Simulation	3
ME 7038	Intro-Computational Fluid Mech	3
ME 7040	Intro to Fin Element Analysis	3
ME 7103	Advanced Engrg Thermodynamics	3
ME 7130	HVAC Analysis and Design	3
ME 7140	Thermal Energy Storage	3
ME 7150	Sustainable Energy	3
ME 7240	Constructal Theory and Design	3
ME 7600	Thermal Mgmt of Electronics	3
ME 7700	Tran Phen in Bio Systems	3
ME 8038	Adv Computational Fluid Dynamic	3
ME 8100	Fund of Cond & Rad Heat Trans	3
ME 8103	Advanced Fluid Mechanics	3
ME 8120	Convection Heat Transfer	3
ME 8150	Multiphase Flow & Heat Trans.	3
ME 8250	Microscale Heat Transfer	3
EGR 7800	Solar Therm. Energy Conversion	3

Elective - Career/ME

Elective Credits 3

One course from:

- ME 5000 through 8999
- Approved elective from other Engineering Department: CHE 5000-8999, CEE 4000-8999, ECE 5000-8999, EGR 7000-8999, SUSE 7000-8999
- Approved elective from hard sciences: AST 4000-8999, BIO 4000-8999, CHM 4000-8999, CSC 4000-8999, ENV 4000-8999, GEV 4000-8999, MAT 4000-8999, PHY 4000-8999, STAT 4000-8999
- Courses from student's completed minor or second major.

Note: Graduate courses are subject to additional requirements.

Elective - Restricted ME Lab

Elective Credits 1

If a concentration is chosen, students must take the appropriate courses in their concentration, including the below:

- Restricted ME Elective
- Restricted ME Lab
- 6 credits from the approved list of courses for the concentration

Course	Title	Credits
ME 4001	Dynamic Systems Lab	1
ME 4002	Solid Mechanics Lab	1
ME 4003	Thermal Fluids Lab	1

Aerospace Engineering Minor

Minor Director: Sergey Nersesov, Ph.D.
Office Location: 370B Drosdick Hall
Telephone: (610) 519-8977
Email: sergey.nersesov@villanova.edu

About:

Offered through the Department of Mechanical Engineering, the Aerospace Engineering minor is open to all Villanova students who satisfy the prerequisites for the list of required courses.

Requirements:

The minor requires the successful completion of 10 courses (30 credits), seven of which are required, two of which are elective courses and one technical elective course from the major.

Program [Engineering](#)
Degree Type Minor

Required Courses:

Course	Title	Credits
ME 2100	Statics	3
ME 2101	Dynamic Systems I	3
ME 2103	Mechanics of Materials	3
ME 3100	Thermodynamics	3
ME 3600	Fluid Mechanics	3
ME 5101	Elements of Aerodynamics	3
ME 5206	Aircraft Design	3

Elective Courses:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select two courses from the list below:

Course	Title	Credits
ME 5000	Selected Topics in ME	3
ME 5102	Compressible Fluid Flow	3
	ME 5201 or ME 7040	3
ME 5205	Flight Dynamics	3
ME 5207	Orbital Mechanics	3

Graduate Level Courses:

Course	Title	Credits
ME 7208	Space Flight Mechanics	3
ME 7209	Adv. Flight Dynamics & Control	3
ME 7038	Intro-Computational Fluid Mech	3
ME 7040	Intro to Fin Element Analysis	3
ME 7070	Aero Vehicle Struc Analy & Des	3
ME 7501	Reinforced Comp Materials	3
ME 7502	Fiber Composite Structures	3

One Technical Elective from the Major:

ME students pursuing the minor in Aerospace Engineering are required to take an additional ME/Concentration elective for their BSME degree for a total of five technical electives.

Non-ME students pursuing the minor in Aerospace Engineering can satisfy this requirement by a technical elective from their respective major.

ME 5201 or ME 7040

Elective Credits 3

Choose either ME 5201 **OR** ME 7040.

Course	Title	Credits
ME 5201	Intro to Finite Elements	3

Biochemical Engineering Minor

Minor Director: William J. Kelly, Ph.D.
Office Location: 234 Drosdick Hall
Telephone: (610) 519-4947
Email: william.j.kelly@villanova.edu

About:

A branch of chemical engineering, Biochemical Engineering serves primarily the biopharmaceutical industry, which is responsible for the manufacture of antibiotics, vaccines, antibodies and most recently, cell therapy products. Villanova's minor in Biochemical Engineering will prepare graduates to make an immediate impact designing and optimizing biopharmaceutical processes and products.

With high average annual salaries, strong job growth rate, and Villanova's proximity to a large number of major pharmaceutical companies and many smaller biotech companies, a minor in this rapidly evolving field is an excellent choice!

This minor is open to Engineering students, and Chemistry, Biology, or Biochemistry Majors with a GPA greater than 3.0. Students outside the Department of Chemical and Biological

Engineering should contact the Minor Director during preregistration to discuss course enrollment.

Students may pursue only one of the following: Biochemical, Biomedical, or Cellular Engineering minors.

Requirements:

The Biochemical Engineering minor requires a total of seven courses (a minimum of 21 credits), three of which are Engineering Electives, three Science Electives, and one Ethics course. The selected courses must include two laboratory experiences, which can be satisfied by a science laboratory course (a laboratory course, or a 4 credit science course with an integrated laboratory) or an Engineering Elective with an integrated laboratory (CHE 5535 or approved topics in CHE 4831).

No AP credit may fulfill any requirements for the minor. A minimum of five courses must be taken at Villanova for completion of the minor.

Program [Engineering](#)
Degree Type Minor

Engineering Electives:

[CHE 5332 - Special Topics](#): Certain topics can be counted with consultation of the Minor Director.

[CHE 4831 - Senior Project Studio I](#): Certain topics can be counted with consultation of the Minor Director.

Electives are subject to change and may be added to this list at the discretion of the College of Engineering. A student may request prior approval of an elective not currently on the list.

Select three courses from the list below:

Course	Title	Credits
CHE 5133	Brewing Science & Tech	3
CHE 5530	Gene Therapy Methods & Research	3
CHE 5532	Intro to Biotechnology	3
CHE 5533	Bioseparations	3
CHE 5534	Biomaterials	3
CHE 5535	Bioengineering Lab Techniques	3
CHE 5536	Biochemical Data Analysis	3
CHE 5540	Cellular Engineering	3
CHE 5545	Tissue Engineering	3
CHE 5550	Synthetic Biology	3
EGR 2021	Elements of Biomedical Engr	3

Science Electives:

Electives are subject to change and may be added to this list at the discretion of the College of Engineering. A student may request prior approval of an elective not currently on the list.

Select three courses from the list below:

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 3351	Genetics	4
BIO 3591	General Microbiology Lecture	3
BIO 3595	General Microbiology	4
BIO 4105	Medical Microbiology	4
BIO 4205	Cell Biology	4
BIO 4355	Experimental Genetics	4
BIO 4505	Molecular Biology	4
CHE 5550	Synthetic Biology	3
CHM 2212	Organic Chemistry II	3
CHM 3417	Biophysical Chemistry	3
CHM 3514	Bioanalytical Chemistry	3
CHM 4611	Survey of Biochemistry	3
CHM 4222	Organic Struct Analysis	3
CHM 4621	Biochemistry I: Structure	3
CHM 4622	Biochemistry II: Metabolism	3
CHM 4623	Biochemistry III	3
CHM 4652	Biochemical Basis of Disease	3
CHM 4665	Enzymes	3
EGR 2020	Physiology for Engineers	3

Ethics:

The ethics requirement for the minor can also be met using any course (3-credit minimum) that satisfies an ethics elective requirement in the curriculum of the student's major.

Course	Title	Credits
PHI 4125	Bioethics	3
PHI 2115	Ethics for Health Care Prof	3

Science Laboratory Experience:

Courses with integrated laboratory

[CHE 4831 - Senior Project Studio I](#): Certain topics can be counted with consultation of the Minor Director.

Course	Title	Credits
BIO 2105	General Biology I	4
BIO 3595	General Microbiology	4
BIO 4105	Medical Microbiology	4
BIO 4205	Cell Biology	4
BIO 4355	Experimental Genetics	4
BIO 4505	Molecular Biology	4
CHE 4831	Senior Project Studio I	3
CHE 5535	Bioengineering Lab Techniques	3
CHE 5550	Synthetic Biology	3

Science Laboratory Courses:

1-credit laboratory

Course	Title	Credits
CHM 2202	Organic Chemistry Lab II	1
CHM 3503	Bioanalytical Chem Lab	1
CHM 4601	Survey Biochemistry Lab	1
CHM 4603	Biochem Tech. and Pract.	1

Biomedical Engineering Minor

Minor Director: Jens O.M. Karlsson, Ph.D.

Office Location: 275A Drosdick Hall

Telephone: 610-519-6250

Email: jens.karlsson@villanova.edu

About:

Biomedical engineers solve problems in medicine and biology by applying engineering principles to gain new insights into the function of the human body, and design devices, materials and interventions that can improve human health, performance and quality of life. The Biomedical Engineering minor is open to all current Villanova Engineering undergraduates who fulfill the prerequisites.

This minor is open to Engineering students

only. Students may pursue either the Biochemical minor or the Biomedical minor, but not both.

Requirements:

The minor requires the successful completion of seven courses (a minimum of 20 credits), two of which are required, four of which are elective courses and one ethics course.

Program [Engineering](#)

Degree Type Minor

Two Required Courses:

Course	Title	Credits
EGR 2020	Physiology for Engineers	3
EGR 2021	Elements of Biomedical Engr	3

Elective Course List A:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select one course from the list below:

Course	Title	Credits
ECE 5250	Biomedical Instrumentation	3
ECE 5251	Biomedical Signal Processing	3
ECE 5252	Medical Imaging	3
ECE 5770	Organs-on-a-Chip	3
ME 5500	Biomechanics	3

Graduate Level Courses:

Course	Title	Credits
ME 7550	Biomechanics of Hard Tissues	3
ME 7560	Biomechanics of Soft Tissues	3
ME 7700	Tran Phen in Bio Systems	3

Elective Course List B:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

SDURIS (Senior Design, Undergraduate Research, or Independent Study) on a topic relevant to biomedical engineering may be substituted for one elective course from List B, with prior written approval from the [Director of the Biomedical Engineering minor program](#).

Graduate courses require additional permissions.

Select three courses from the list below:

Course	Title	Credits
CHE 5534	Biomaterials	3
CHE 5535	Bioengineering Lab Techniques	3
CHE 5545	Tissue Engineering	3
ECE 5250	Biomedical Instrumentation	3
ECE 5251	Biomedical Signal Processing	3
ECE 5252	Medical Imaging	3
ECE 5770	Organs-on-a-Chip	3
EGEN 5100	Medical Tech Commercialization	3
ME 5500	Biomechanics	3
PSY 2800	Human Factors	3

Graduate Level Courses:

Course	Title	Credits
CHE 8586	Biomaterials & Drug Delivery	3
ME 7550	Biomechanics of Hard Tissues	3
ME 7560	Biomechanics of Soft Tissues	3
ME 7700	Tran Phen in Bio Systems	3

Ethics Requirement:

The ethics requirement for the minor can also be met using any course (3-credit minimum) that satisfies an ethics elective requirement in the curriculum of the student's major.

Graduate courses require additional permissions.

Select one course from the list below:

Course	Title	Credits
PHI 2115	Ethics for Health Care Prof	3
PHI 4125	Bioethics	3

Cellular Engineering Minor

Minor Director: Jacob Elmer, Ph.D.
Office Location: 233 Drosdick Hall
Telephone: (610) 519-3093
Email: jacob.elmer@villanova.edu

About:

The genetic engineering of cells has created several innovations, including new therapies for cancer and other genetic disorders, crops with improved properties, and microbes that can perform a variety of useful functions. Villanova's minor in Cellular Engineering will give students the knowledge they need to understand how cells work and the skills they need to manipulate those cellular processes for a wide variety of applications.

This minor is open to Engineering and Arts and Sciences students. Students may pursue only one of the following: Biochemical, Biomedical, or Cellular Engineering minors.

Requirements:

The minor requires the successful completion of seven courses (21 credits), including a Capstone course (CHE 5540 or CHE 8591), an Ethics course (PHI 2115), and five Electives.

- Students must take at least one course in each of the three Elective areas: Genetics, Cell Culture, and Cell Biology.
- At least two courses must have a lab experience or 1-2 credit lab
- Independent research credits may be substituted for one course with a lab experience (e.g., CHE 4831 or 4832, CHM 4801 or 4802) if approved by the Cellular Engineering committee.
- Special Topics courses (e.g., CHE 5332) may also be approved for the minor following review by the Cellular Engineering committee.
- At least three courses in total must be from the College of Engineering
- At least two courses must be from the Biology or Chemistry Departments

Program [Engineering](#)
Degree Type Minor

Capstone:

Course	Title	Credits
	CHE 5540 or CHE 8591	3

Ethics Course:

Course	Title	Credits
PHI 2115	Ethics for Health Care Prof	3

Genetics Electives:

Courses with a lab experience or 1-2 credit lab include: CHE 5530 and CHM 4604.

Select at least one course from the list below:

Course	Title	Credits
BIO 3351	Genetics	4
CHE 5530	Gene Therapy Methods & Research	3
CHM 4604	Biochem Tech. and Pract II	1
CHM 4621	Biochemistry I: Structure	3

Cell Culture Electives:

Courses with a lab experience or 1-2 credit lab include: BIO 3595, BIO 4655, BIO 7321, and CHE 5535.

BIO 7321/7322 (Graduate-level Immunology lecture/lab) can be taken in place of BIO 4655.

Select at least one course from the list below:

Course	Title	Credits
BIO 3591	General Microbiology Lecture	3
BIO 3595	General Microbiology	4
BIO 4105	Medical Microbiology	4
BIO 4655	Immunology	4
CHE 5532	Intro to Biotechnology	3
CHE 5534	Biomaterials	3
CHE 5535	Bioengineering Lab Techniques	3
CHE 5545	Tissue Engineering	3

Graduate Level Courses:

Course	Title	Credits
BIO 7321	Immunology	2
BIO 7322	Immunology Laboratory	2

Cell Biology Electives:

Courses with a lab experience or 1-2 credit lab include: BIO 4205, BIO 4505 and CHE 5550.

"Topics" in Biology courses (example: BIO 4950) will only count for the minor if they are approved by the Cellular Engineering Minor Director. Previously offered Topics courses that are approved for the Cellular Engineering minor include: Cell Signaling, Cellular Communication, Biology & Biochemistry of RNA, and Parasitology.

Select at least one course from the list below:

Course	Title	Credits
BIO 4201	Cell Biology Lecture	3
BIO 4205	Cell Biology	4
BIO 4501	Molecular Biology Lecture	3
BIO 4505	Molecular Biology	4
BIO 4950	Advanced Topics in Biology	3
CHE 5536	Biochemical Data Analysis	3
CHE 5550	Synthetic Biology	3
CHM 4622	Biochemistry II: Metabolism	3
EGR 2020	Physiology for Engineers	3

Graduate Level Courses:

Course	Title	Credits
CHM 9664	Spec Top in Bio Chem IV	3

CHE 5540 or CHE 8591

Elective Credits 3

Choose either CHE 5540 **OR** CHE 8591.

Course	Title	Credits
CHE 5540	Cellular Engineering	3

Computer Engineering Minor

Minor Director: Ed Char
Office Location: 319 Drosdick Hall
Telephone: (610) 519-5659
Email: edward.char@villanova.edu

About:

The Computer Engineering minor is open to all students who satisfy the prerequisites for the list of required courses.

Requirements:

The Computer Engineering minor requires the successful completion of seven courses and five laboratories (26 credits). Five required courses, five required laboratories, and two elective courses.

Program [Engineering](#)
Degree Type Minor

Required Courses:

Course	Title	Credits
ECE 2030	Electric Circuits Fundamentals	3
ECE 2031	Elect Circuit Fundamentals Lab	1
ECE 2170	Fundamentals of CPE	3
ECE 2171	Fundamentals of CPE Lab	1
ECE 2172	Digital Systems	3
ECE 2173	Digital Systems Lab	1
ECE 2160	C++ Algorithms & Data Struct	3
ECE 2161	C++ Algorithms&Data Struct 1 Lab	1
ECE 3170	Computer Architecture	3
ECE 3171	Computer Architecture Lab	1

Elective Courses:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select two courses from the list below:

Course	Title	Credits
ECE 2530	Analog Electronics I	3
ECE 3476	Computer and Network Security	3
ECE 3180	Computer Networks	3
ECE 5170	Intro to Post-Quantum Computin	3
ECE 5172	Fund of Digitl Hardware Design	3
ECE 5250	Biomedical Instrumentation	3
ECE 5251	Biomedical Signal Processing	3
ECE 5252	Medical Imaging	3
ECE 5400	Applied Machine Learning	3
ECE 5450	Microcontrollers & Applic	3

Electrical Engineering Minor

Minor Director: Mark A. Jupina, Ph.D.
Office Location: 322 Drosdick Hall
Telephone: (610) 519-7561
Email: mark.jupina@villanova.edu

About:

The Electrical Engineering minor is open to all students who satisfy the prerequisites for the list of required courses.

Requirements:

The Electrical Engineering minor requires the successful completion of five courses and four laboratories (19 credits).

Program [Engineering](#)
Degree Type Minor

Required Courses:

Course	Title	Credits
ECE 2030	Electric Circuits Fundamentals	3
ECE 2031	Elect Circuit Fundamentals Lab	1
ECE 2530	Analog Electronics I	3
ECE 2531	Analog Electronics I Lab	1
ECE 3530	Analog Electronics II	3
ECE 3531	Analog Electronics II Lab	1
ECE 3030	Engr Electromagnetics	3
ECE 3031	Engr Electromagnetics Lab	1
ECE 3242	Fundamentals of Signal Process	3

Engineering Entrepreneurship Minor

Minor Director: Lauri Olivier, Ph.D., MBA
Office Location: 250H Drosdick Hall
Telephone: (610) 519-7373
Email: lauri.olivier@villanova.edu

About:

Villanova University offers a unique interdisciplinary 16-credit Engineering Entrepreneurship minor that aims to provide students across all majors and colleges with an entrepreneurial mindset and the skills needed for business venture success. The experiential minor is structured so that students work in teams to develop innovative products or services while learning educational content.

Open to students from all colleges, the mission of our undergraduate program in Engineering Entrepreneurship is to cultivate a diverse community of forward-thinking individuals ready to drive transformative change. We are committed to:

1. Inspiring Creativity: Encouraging imaginative thinking and exploration in all learning experiences.
2. Encouraging Collaboration: Promoting interdisciplinary teamwork to solve complex challenges.
3. Innovating through Design: Applying design principles to develop effective solutions that address societal needs.
4. Fostering Leadership: Empowering students to become ethical leaders who inspire others and drive positive change.
5. Engaging with Industry: Building partnerships with industry leaders for real-world experiences and mentorship.

Requirements:

The academic year minor requires the successful completion of six courses (16 credits), five of which are required from within the Engineering Entrepreneurship program and one of which is an elective course. Three of the Engineering Entrepreneurship courses in the curriculum teach Innovation Fundamentals, while the two remaining required courses are specific to the chosen track, either Technology Ventures or Social Impact Entrepreneurship.

Students may alternatively opt not to complete the entire minor but rather only complete courses or sections relevant to their future career interests.

Program Engineering Degree Type Minor

Innovation Fundamentals Required Courses:

Course	Title	Credits
EGEN 2100	Engineering a Creative Mindset	1
EGEN 3100	Venture 1: Cust Discvry in PD	3
EGEN 4100	Venture 2: The Lean Startup	3

Technology Ventures Track Courses:

Course	Title	Credits
EGEN 2200	Emerging Tech in Product Innov	3
EGEN 2400	Legal Essentials in Tech Entre	3

Social Impact Track Courses:

EGEN 2500 is a required course for the Social Impact Entrepreneurship track. Students then have a choice with regards to the second required course, either: EGR 2002 or SUSE 2111.

Course	Title	Credits
EGEN 2500	Social Impact Entrepreneurship	3
EGR 2002	Intro to Humanitarian Engr	3
SUSE 2111	Sus Eng: LCA & Circular Econ	3

Elective Course Options:

COE Students choose one elective from the course list below. (ME students are required to complete both ME 5005 and ME 5006).

In addition to the Elective Course Options listed below, ECE 4975 - Design Capstone II, is an option for Electrical and Computer Engineering students.

Course	Title	Credits
CEE 4606	CEE Capstone Design 2	3
CHE 4831	Senior Project Studio I	3
CHE 4832	Senior Project Studio II	3
CHE 5715	Alternative Energy	3
COM 1100	Public Speaking	3
COM 1101	Business & Prof Communication	3
CSC 4810	Mobile App Development	3
ME 5005	Capstone Design I	2
ME 5006	Capstone Design II	2
ME 5130	Intro to Sustainable Energy	3
ME 5600	Engineering Economics	3
MIS 3070	Emerging Business Technologies	3
MKT 2240	Marketing Analytics	3
PHI 2550	Technology & Society	3
SUSE 2110	Sus Eng: Risk & Opportunities	3
SUSE 2111	Sus Eng: LCA & Circular Econ	3

Graduate Level Courses:

Course	Title	Credits
ME 7150	Sustainable Energy	3

Additional courses not on this list may be acceptable but require prior approval from the Director of the Engineering Entrepreneurship program. Electives are subject to change and may be added to or removed from this list at the discretion of the College of Engineering.

Electives for VSB and CLAS participants are approved through conversation with the Director of the Engineering Entrepreneurship program. Students may also earn 3 elective credits for participation in the European Innovation Academy.

Academic Framework and Program Timeline:

Generally, a student declares the Engineering minor the spring of their first-year or fall of their second year. A student may choose to limit their involvement in the program and only complete individual courses.

Track 1: Focus on a career in **Technology Ventures**. The recommended path of study to complete the track is as follows:

Sophomore Year	Junior Year	Senior Year
Fall: EGEN 2100 Engineering a Creative Mindset	Fall: EGEN 3100 Venture 1: Customer Discovery for Product Development	Fall: EGEN 2400 Legal Essentials of Technology Ventures
Spring: EGEN 2200 Emerging Technologies in Product Innovation	Spring: EGEN 4100 Venture 2: Business Model Development	Fall or Spring: Program Elective

Track 2: Focus on a career in **Social Impact**. The recommended path of study to complete the track is as follows:

Sophomore Year	Junior Year	Senior Year
Fall: EGEN 2100 Engineering a Creative Mindset	Fall: EGEN 3100 Venture 1: Customer Discovery for Product Development	Fall EGEN 2500 Social Impact Entrepreneurship
Spring: Humanitarian Engineering EGR 2002 or Sustainable Engineering SUSE 2111	Spring: EGEN 4100 Venture 2: Business Model Development	Fall or Spring: Program Elective

Engineering Entrepreneurship Summer Institute

Minor Director: Lauri Olivier, Ph.D., MBA
Office Location: 250H Drosdick Hall
Telephone: (610) 519-7373
Email: lauri.olivier@villanova.edu

About:

8 Weeks, 16 Credits, One Minor

The mission of the Engineering Entrepreneurship program is to cultivate a diverse community of forward-thinking individuals ready to drive transformative change. Villanova's Engineering Entrepreneurship Summer Institute (E2SI) Abroad is open to all Villanova university students from all academic backgrounds. This immersive sixteen credit hour minor blends entrepreneurial spirit with product innovation principles, fostering collaboration across disciplines. Through E2SI Abroad, our immersive summer institute, we inspire the next generation of global leaders.

Why Engineering Entrepreneurship?

Entrepreneurial Skills Matter in Every Career: The need for entrepreneurial skills is much broader than the focus on starting a new enterprise. Employers value self-starters who take initiative, show persistence and demonstrate leadership. These entrepreneurial competencies are invaluable in any career and differentiate students from the competition.

Program Competencies Highlights:

- Disruptive Innovation: Navigate Industry 4.0 technologies and spot emerging market opportunities
- Strategic Problem-Solving: Transform global challenges into viable business solutions
- Business Validation: Master data-driven methods to evaluate and strengthen venture concepts
- Global Leadership: Excel in cross-cultural communication and international collaboration
- Value Creation: Drive customer engagement and deliver measurable business impact
- Entrepreneurial Mindset: Blend business, finance, and marketing insights to think like an

innovator

- International Engagement: Develop international business experience

Program [Engineering](#)
Degree Type Minor

Required Courses:

The curriculum in E2SI has been designed to create a unified, immersive experience for cohorts of students, so the program must be completed in a single summer (courses cannot be taken individually). Through our innovative hybrid format that combines 5 weeks of virtual learning and 3 weeks in an international setting, students earn a minor while gaining global entrepreneurship experience.

Course	Title	Credits
EGEN 2100	Engineering a Creative Mindset	1
EGEN 2150	Whole Systems in Intl Bus Dev	3
EGEN 2200	Emerging Tech in Product Innov	3
EGEN 3100	Venture 1: Cust Discvry in PD	3
EGEN 3200	Product & Service Prototyping	3
EGEN 4100	Venture 2: The Lean Startup	3

A Complete Application to E2SI:

E2SI is open to any current Villanova student in good standing. External candidates are also welcome to apply. E2SI 2025 Abroad will visit Panama.

To apply, visit the Office of Education Abroad (OEA) and find [Engineering Entrepreneurship Summer Institute Panama](#) under the summer programs. The application process includes submitting the application on the OEA website and completing a short interview with the program director. Upon application submission, you will receive an email to set up the interview.

Humanitarian Engineering Minor

Minor Director: Jordan Ermilio, Ph.D., P.E., MSWRE, RPCV

Office Location: 250G Drosdick Hall
 Telephone: (610) 519-6859
 Email: jordan.ermilio@villanova.edu

About:

Built on the success of the [Villanova Engineering Service Learning \(VESL\)](#) program and offered through the Center for Humanitarian Engineering and International Development, the minor in Humanitarian Engineering supports the intellectual development of current Villanova University undergraduates who have an interest in humanitarian initiatives with a global perspective, and fosters collaboration with program partners through the provision of technical services that include engineering design and research related to sustainable development. Open to **engineering students only**, the learning objectives associated with this minor include:

- Understanding the technical and social aspects of poverty alleviation
- Applying engineering fundamentals to meet the needs of humanitarian organizations
- Developing skills in community development using participatory methodologies
- Understanding the relationship between ethical engagement and sustainable development in a global setting

The ultimate goal of this program is to ensure ethical engagement and impact through collaboration with global partners.

Requirements:

The Humanitarian Engineering minor requires the successful completion of six courses (17 credits). One required course, three VESL seminars (EGR 5001, 5002, 5003), two technical electives, and two professional electives.

Program [Engineering](#)
Degree Type Minor

Required Course:

Course	Title	Credits
EGR 2002	Intro to Humanitarian Engr	3

VESL Seminar Series:

Provides experiential-learning opportunities for students to collaborate with program partners in real-time on projects related to sustainable development, humanitarian technology, and poverty alleviation.

Course	Title	Credits
EGR 5001	Engineering Service Learning	1
EGR 5002	EGR Service Learning Leader	1
EGR 5003	Engineering Svc Learning Capst	1

Technical Electives:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select two courses from the list below:

Course	Title	Credits
CEE 3601	GIS for Engineers	3
CEE 4606	CEE Capstone Design 2	3
CEE 4607	Selected Topics in CEE	3
CEE 4612	CEE Undergraduate Research	3
CHE 5332	Special Topics in CHE	3
CHE 5715	Alternative Energy	3
ECE 4810	Intro. to Electric Energy Sys.	3
EGR 2001	Egr: Humanistic Context	3
EGR 4000	Undergraduate Research I	1
GEV 1750	Geo-Techniques	4
GEV 3521	GIS for Urban Sustainability	3
GEV 3570	Land Use Planning & Mgmt	3
GEV 3580	Natural Res and Conservation	3
ME 5006	Capstone Design II	2
ME 5130	Intro to Sustainable Energy	3
ME 5000	Selected Topics in ME	3
NUR 3122	Imper for Global & Pub Health	3

Graduate Level Courses:

Course	Title	Credits
ECE 7800	Renewable Energy Systems	3
SUSE 7120	Intro to Sus Eng for Intl Dev	3
SUSE 7121	Sus WASH & Enviro Egr for Dev	3
SUSE 7122	Product Dev for Low Rsrc Set	3
SUSE 7123	ICT and Energy for Development	3

By rule, any additional Technical Electives can count as a Professional Elective if the student already meets the 6-credit technical elective requirement for the minor.

CEE 4606, CEE 4607, CEE 4612, ECE 4975, EGR 4000, ME 5006, ME 5000 require approval from the Program Director.

Additional graduate courses can be applied with approval from the Program Director.

Professional Electives:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select two courses from the list below:

Course	Title	Credits
ACC 2420	International Accounting	3
ASL 1111	Intro to Amer Sign Language I	3
ASL 1112	Intro to American Sign Lang II	3
BL 2160	International Business Law	3
COM 3403	Intercultural Communication	3
COM 1400	Introduction to Deaf Studies	3
CST 2100	Intro. to Cultural Studies	3
EGR 2930	Catholic Soc Teaching for EGRS	3
ECO 3108	Global Political Econ	3
ECO 3109	International Economics	3
ECO 3127	Development Economics	3
ECO 4203	Pol Eco of Intl Financial Inst	3
ECO 4209	International Macroeconomics	3
FFS 1122	Intermediate French II	3
FFS 1134	Business French	3
FFS 1139	Intercultural Comm in French	3
GEV 1002	Geo. of a Globalizing World	3
GEV 4511	Climate Variability	3
GIS 2000	Intro to Global Interd Studies	3
MGT 2208	International Topics	3
MGT 2350	Global Business Management	3
MGT 2360	Global Leadership	3
MGT 2370	Global Business Ethics	3
MKT 2280	Global Marketing	3
PJ 5000	Selected Topics	3
PSC 1200	International Relations	3
PSC 2210	Globalization	3
PSC 2220	International Law	3
PSC 2240	Internat'l Political Economy	3
PSC 2350	African Politics	3
PSC 2360	Latin American Politics	3
PSC 3230	Development and Aid	3
SPA 1122	Intermediate Spanish II	3
SPA 3200	Intro to Spanish Translation	3
SWA 1111	Intro Swahili Language I	4
SWA 1112	Intro Swahili Language II	4
THL 5003	THM Catholic Studies	3
THL 4490	THM Christian Ethics	3

[PJ 5000](#) or other special topics courses relevant to humanitarian engineering may be substituted, with prior approval from the Director of the Humanitarian Engineering minor program.

Academic Framework and Program Timeline

After a student declares the Humanitarian Engineering minor during their first-year, a typical course of study may look like this:

Sophomore Year	Junior Year	Senior Year
Fall: Professional Elective	Fall: Technical elective	Professional elective
Spring: Technical Elective	Spring: Professional elective	Fall or Spring: VESL Capstone - may also be completed the summer after Junior year
Fall or Spring: Introductory Course EGR 2002	Fall or Spring: VESL Leadership Seminar	
Fall or Spring: VESL Seminar EGR 5001		

In some cases, students might need to take more than 5-credits during the final year of the program, and in some cases summer programs would supplement the above framework. For example, during any summer, students could complete a VESL field assignment along with a course to accumulate between 1-7 credits.

Mechatronics Minor

Minor Director: Garrett M. Clayton, Ph.D.
Office Location: 250C Drosdick Hall
Telephone: (610) 519-4798
Email: garrett.clayton@villanova.edu

About:

Mechatronics is a multidisciplinary branch of engineering that focuses on the engineering of both electrical and mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering.

This minor is open to all students who satisfy the prerequisites for the list of required courses.

Requirements:

The Mechatronics minor requires the successful completion of 27 credits: Six required courses, two electives, and one lab which totals eight courses and one lab.

Program [Engineering](#)
Degree Type Minor

Required Courses:

Course	Title	Credits
ME 2100	Statics	3
ME 2101	Dynamic Systems I	3
	ME 3103 or ECE 2290	3-4
ECE 2030	Electric Circuits Fundamentals	3
ECE 2031	Elect Circuit Fundamentals Lab	1
	Either CSC 1051 or ECE 1260/1261	4
	Either ECE 2430/ECE 2431 or ECE 2042/ECE 2043	4

Mechanical Engineering Elective:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

[ME 5001](#) with approval from the Minor Director

Select ones course from the list below:

Course	Title	Credits
ME 5411	Mechatronics	3
ME 5421	Introduction to Robotics	3
ME 5441	Advanced System Modeling	3

Graduate Level Courses:

Course	Title	Credits
ME 7205	Advanced Dynamics	3
ME 8204	Robotics: Analysis & Control	3
EGR 8301	Control Systems Engineering	3
EGR 8302	Digital Control	3
EGR 8304	Nonlinear Control	3
EGR 8305	System Identification	3
EGR 8308	Feedforward Control	3
EGR 8311	Machine Learning for Engineers	3

Electrical and Computer Engineering Elective:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

[ECE 5991](#) with approval of Minor Director

Select ones course from the list below:

Course	Title	Credits
ECE 5390	Control System Design	4
ECE 5400	Applied Machine Learning	3
ECE 5450	Microcontrollers & Applic	3

Graduate Level Courses:

Course	Title	Credits
ECE 7580	Intro to Power Electronics	3
ECE 7830	Intro. to Electric Drives	3
ECE 8425	Microproc & Microcomp	3
EGR 8301	Control Systems Engineering	3
EGR 8302	Digital Control	3
EGR 8304	Nonlinear Control	3
EGR 8305	System Identification	3
EGR 8308	Feedforward Control	3

ME 3103 or ECE 2290

Elective Credits 3-4

Course	Title	Credits
ME 3103	Dynamic Systems III	3
ECE 2290	Engr System Models & Control	4

Either CSC 1051 or ECE 1260/1261

Elective Credits 4

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4

or

Course	Title	Credits
ECE 1260	EGR Prog and Applic	3
ECE 1261	EGR Prog and Applic Lab	1

Either ECE 2430/ECE 2431 or ECE 2042/ECE 2043

Elective Credits 4

Course	Title	Credits
ECE 2430	Embedded Systems	3
ECE 2431	Embedded Systems Lab	1

or

Course	Title	Credits
ECE 2042	Fundamentals of CPE I	3
ECE 2043	Fund of Comp Engineering I Lab	1

Real Estate Development Minor

Minor Director: Eric Musselman, Ph.D.

Office Location: 346A Drosdick Hall

Telephone: (610) 519-7631

Email: eric.musselman@villanova.edu

About:

Offered jointly with the Villanova School of Business through the Daniel M. DiLella Center for Real Estate, the Real Estate Development minor is specially designed for Civil Engineering students to learn more about commercial real estate development from a business perspective. Civil Engineering students take classes and interact with VSB students who are themselves pursuing a Real Estate minor (or co-major) within VSB.

This minor is open to Civil Engineering students only.

Requirements:

The Real Estate Development minor requires the successful completion of six courses (18 credits). Four courses from the Villanova School of Business, and two courses from Civil Engineering.

Program [Engineering](#)
Degree Type Minor

VSB Courses:

Course	Title	Credits
RES 2150	Real Estate Fundamentals	3
RES 2250	Real Estate Law	3
RES 3150	Real Estate Investments	3
RES 4150	Real Estate Development	3

Civil Engineering Courses:

Course	Title	Credits
CEE 2701	CE Project Development	3
CEE 4702	Construction Engineering	3

Sustainable Engineering Minor

Minor Director: Virginia Smith, Ph.D.

Office Location: 364A Drosdick Hall

Telephone: 610-519-4961

Email: virginia.smith@villanova.edu

About:

Sustainability: Development that meets the needs of the present without compromising the needs of future generations.

This cross-disciplinary Sustainable Engineering minor prepares students as engineers to confront complex sustainability challenges in the 21st century.

This minor is open to Engineering students

only. Students may pursue either the Sustainability Studies minor or the Sustainable Engineering minor, but not both.

Program Learning Objectives:

1. Understand humanity's impact on Earth and the nexus of human and environmental processes in the Anthropocene (current geological age).
2. Define holistically the scope of sustainability through the lens of conceptual frameworks including the triple bottom line and the UN Sustainable Development Goals (SDGs).
3. Approach complex problems in the intersection of engineering and sustainable development through the application of whole-systems thinking through a life-cycle lens and with consideration of the interconnected STEEP (social, technological, economic, environmental, and political) dimensions of sustainability challenges.
4. Apply, on a conceptual level, life-cycle analysis as a tool to evaluate the environmental impacts of engineered products, services, and the built environment.
5. Apply circular design principles to identify opportunities to rethink engineered

products, services and infrastructure and the systems surrounding them in advancing a transition from a linear to a circular economy.

6. Articulate the role of the engineering profession and one's chosen engineering discipline in contributing to sustainable solutions as part of interdisciplinary teams.

Requirements:

The Sustainable Engineering minor requires a total of six courses (18 credits), two of which are required, four of which are elective courses (two Humanities and/or Policy electives, and two Technology electives)

Program [Engineering](#)
Degree Type Minor

Two Required Courses:

Course	Title	Credits
SUSE 2110	Sus Eng: Risk & Opportunities	3
SUSE 2111	Sus Eng: LCA & Circular Econ	3

Humanities and/or Policy Electives:

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select two courses from the list below:

Course	Title	Credits
	Humanities Electives	3
	Policy Electives	3

Technology Electives:

Up to two of the Technology Electives from within a student's major can be counted toward the minor.

Electives are subject to change. Electives may be added to this list at the discretion of the College of Engineering.

Select two from the list below:

Course	Title	Credits
	Technology Electives	3

Humanities Electives

Elective Credits 3

Any course with the SHUM (Sustainability-Humanities Stem) attribute will count as a Humanities Elective.

Humanities

Course	Title	Credits
ETH 3010	Topics in Ethics	3
HIS 1065	Topics Nature, Environ & Tech	3
PHI 2121	Environmental Ethics	3
PHI 4210	Environmental Philosophy	3
PJ 3000	Selected Topics	1
PJ 5000	Selected Topics	3
THL 2460	Bible and Environment	3
THL 4330	Christian Environmental Ethics	3
GEV 3001	Intro to Sustainability Study	3

Permission required: [PJ 3000](#), [PJ 5000](#)

Policy Electives

Elective Credits 3

Any course with the SPOL (Sustainability-Policies Stem) attribute will count as a Policy Elective.

Policy

Course	Title	Credits
ECO 3108	Global Political Econ	3
ECO 4200	Advanced Topics in Economics	3
GEV 1004	Climate Change	3
GEV 2500	Global Change in Local Places	3
GEV 2525	Population Geography	3
GEV 3000	Special Topics	3
GEV 3570	Land Use Planning & Mgmt	3
GEV 3580	Natural Res and Conservation	3
GEV 4330	Spec Topics in Environm Policy	3
GEV 4331	Env. Policy & Management	3
GEV 4334	Environmental Law	3
GEV 4336	Environmental Economics	3
GEV 4340	Spec Topics in Environm Issues	3
MGT 2208	International Topics	3
MGT 2352	Business in Emerging Markets	3
PA 2000	Public Policy	3
PJ 5000	Selected Topics	3
PSC 4275	Topics in Internat'l Relations	3
GEV 3001	Intro to Sustainability Study	3

Graduate Level Courses:

Course	Title	Credits
CEE 8303	Urban Planning	3

Permission required: [ECO 4200](#), [GEV 3000](#), [GEV 4330](#), [GEV 4340](#), [GEV 4510](#), [PSC 4275](#), [PJ 5000](#)

Technology Electives

Elective Credits 3

Any course with the SSCT (Sustainability-Sci & Tech Stem) attribute will count as a Technology Elective.

Course	Title	Credits
BIO 3255	Evolutionary Ecology	4
BIO 3485	Marine Biology	4
BIO 3661	Environment and Human Health	3
BIO 3955	Lec+Lab in Topics in Biology	4
	BIO 4451/52	4
CEE 4226	Transportation System Design	3
CEE 4521	Water Resources Egr Design	3
CEE 4607	Selected Topics in CEE	3
CEE 4612	CEE Undergraduate Research	3
CHE 4831	Senior Project Studio I	3
CHE 5001	Industrial Liq & Sld Waste	3
CHE 5002	Prin of Air Pol Control	3
CHE 5715	Alternative Energy	3
CHM 1311	Inorganic Chemistry I	3
GEV 1051	Environmental Science II	4
GEV 1050	Environmental Science I	4
GEV 1052	Environmental Studies	3
GEV 1053	Environmental Studies II	3
GEV 2500	Global Change in Local Places	3
GEV 3306	Alternative Energy	3
GEV 3308	Environmental Health	3
GEV 3521	GIS for Urban Sustainability	3
GEV 4320	Spec. Topics in Env Lab Sci	4
GEV 4329	Global Change Research	4
GEV 4350	Spec Topics in Environm Sci	3
GEV 4351	Oceanography	3
GEV 4511	Climate Variability	3
GEV 4512	Medical Geography	3
GEV 4700	Geographic Information Systems	4
	MSE 20XX	
ME 4850	Thermal-Fluid System Design	3
ME 5130	Intro to Sustainable Energy	3
MET 1222	Climate Change:Past & Present	3

Graduate Level Courses:

Course	Title	Credits
CEE 7829	Princ Sust Devel for Ind & Soc	3
SUSE 7110	Fundamentals-Sustainable Engr	3
SUSE 7111	Life Cycle/Impact Assessment	3
SUSE 7112	Econ/Social Equity Integrators	3
SUSE 7113	Sustainable Materials & Design	3
EGR 7800	Solar Therm. Energy Conversion	3
ME 7140	Thermal Energy Storage	3

- **Pre-requisites, see advisor:** [BIO 3255](#), [BIO 4451/52](#), [BIO 4801](#), [CEE 2211](#), [CEE 4607](#), [GEV 1050](#), [GEV 1051](#)
- **AP course credit may be applied:** [CHM 1311](#), [GEV 1052](#)
- **Associated lab section required, see advisor:** [BIO 4451/52](#), [CHE 4831](#), [GEV 1050](#), [GEV 1051](#), MSE 20XX
- **Permission required:** [CEE 4612](#), [CHE 4831](#), MSE 20XX

Fitzpatrick College of Nursing

College of Nursing Directory

Donna S. Havens, Ph.D., FAAN, RN, Connelly Endowed Dean and Professor

Bette Mariani, Ph.D., RN, ANEF, FAAN, Vice Dean for Academic Affairs and Professor

Mary Terhaar, Ph.D., RN, ANEF, FAAN, Associate Dean for the Graduate Program

Catherine P. Lovecchio, Ph.D., RN, Associate Dean for the Undergraduate Program

Bridgette M. (Brawner) Rice, Ph.D., MDiv, APRN, FAAN, Associate Dean for Research and Innovation

Patricia K. Bradley, Ph.D., RN, FAAN, Associate Dean for Inclusive Excellence

Anne M. Fink, Ph.D., RN, CNE, Associate Dean for College and Student Services

Evelyn Lengetti, Ph.D., RN-BC, Associate Dean of Continuing Education

Maria Pavelsky, MBA, Assistant Dean, Finance & Administration

Office: Driscoll Hall, tel. 610-519-4900

Website: <https://www1.villanova.edu/university/nursing.html>

Course descriptions: www.catalog.villanova.edu/courses/nur.html

The health care of a complex and technologically advanced society requires professional nurses who are liberally educated, clinically competent, compassionate and ethically motivated. In responding to these objectives, the College of Nursing is a tangible expression of Villanova's mission, values and commitment to human service.

History

Villanova University first responded to society's need for baccalaureate-prepared nurses in 1932 when it offered a program of study leading to a Bachelor of Science in Nursing Education. This commitment was expanded in 1953 to create a College of Nursing that now offers a 4 year BSN program, a BSN program for second degree

students, an MSN program, a PhD program, a Doctor of Nursing Practice program and a Continuing Education Program.

Baccalaureate nursing education prepares individuals for professional nursing practice in a variety of health-care settings and for continuous personal and educational growth, including entrance into graduate education in nursing. A liberal education is integrated with the ideals, knowledge, and skills of professional nursing practice under the direction of well-qualified faculty.

The M. Louise Fitzpatrick College of Nursing is approved by the State Board of Nursing of the Commonwealth of Pennsylvania. Upon completion of the undergraduate program, graduates are eligible to take the licensing examination (NCLEX-RN) for professional registered nurses. This license is transferable within the United States nationally by state. The BSN, MSN, and Doctor of Nursing Practice programs are fully accredited by the Commission on Collegiate Nursing Education. The Nurse Anesthesia Doctor of Nursing Practice is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs. The Continuing Education Program is accredited as a provider of Continuing Education in Nursing by the American Nurses Credentialing Center, Commission on Accreditation.

Contact Information:

American Nurses
Credentialing Center
8515 Georgia Avenue,
#400 Silver Spring, MD
20910

1-800-284-CERT (2378)

www.nursingworld.org/ancc/

Commonwealth of
Pennsylvania
Department of State Bureau
of
Professional and Occupational
Affairs
State Board of Nursing
P.O. Box 2649 Harrisburg, PA
17105-2649
Phone: (717) 783-7142
Fax: (717) 783-0822
<http://www.dos.state.pa.us/bpoa/>
nursing@pados.dos.state.pa.us

Commission on Collegiate
Nursing Education
655 K Street NW, Suite 750
Washington, DC 20001
Phone: (202) 887-6791
Fax: (202) 887-8476

www.aacnnursing.org/CCNE

Council on Accreditation of
Nurse Anesthesia Educational
Programs
222 South Prospect Avenue
Park Ridge, Illinois
60068-4001
Phone: (847) 692-7050
Fax: (847) 692-6968
www.aana.com/

Academic Mission

The Fitzpatrick College of Nursing (FCN) is a tangible expression of Villanova University's mission, tradition, and commitment to human service. As a major school of nursing under Catholic auspices, it carries responsibility for the education of nurses within the framework of Christian beliefs and values and the heritage of the Order of St. Augustine. The Fitzpatrick College of Nursing interprets nursing as a healing ministry emanated by love and demonstrated through service and the care of others. As a healing art as well as an applied science and practice discipline, nursing as taught at Villanova University emphasizes the concern for spiritual health as well as that of mind and body. Curricula reflect the integration of these elements and their application in clinical practice, and concern for others regardless of race, ethnicity, or religion. The Fitzpatrick College of Nursing educates individuals for service to a diverse society including all sectors and strata of the population; as such, graduates are prepared to assume roles in all settings where health care is delivered.

Within this context, nursing draws its worth and spirit from motives based on love of one's fellow men and women who are made in the image and likeness of God. As a social service to the community, nursing responds to the needs of the sick, poor and disabled, and promotes wellness as the pre-eminent goal of nursing care. The practice of nursing within a Christian environment requires that those who nurse recognize and respect the needs of each person and that they teach while they nurse in order to assist their patients and the community to achieve the highest possible level of wellness of body, mind, and spirit.

The Fitzpatrick College of Nursing, consistent with the mission of Villanova University, assumes responsibility for the education of individuals who will be prepared to provide a vital service to society and who are liberally educated, clinically competent, compassionate, and ethically motivated. The college is committed to providing high quality education in the liberal arts and sciences and expert preparation in the knowledge and clinical skills of professional nursing to qualified individuals who must be prepared and empowered to confront the health care demands of a complex and technologically advanced society.

The FCN views itself as an important locus of education, scholarship, and organizational leadership within Nursing's professional and educational communities. It views with great seriousness its prominent role within the constellation of collegiate nursing programs under Catholic auspices.

The FCN awards the baccalaureate in nursing (BSN) and provides basic preparation in nursing to those who are studying for the first professional degree in the field. Such students include high school graduates with no prior college experience, college graduates with degrees in other disciplines who have made a decision to study nursing, and adults who are studying for their first college degree.

The Graduate Program awards the master's degree in nursing (MSN), and post-MSN Certificates and provides preparation and leadership development in selected areas of advanced nursing practice, development of research skills, and knowledge of health policy. In addition, course options prepare individuals for positions as educators, nurse practitioners, and nurse anesthetists.

The Graduate Program administers the Doctor of Philosophy degree in nursing (Ph.D.), which is designed to prepare nurses as educators and researchers for academic careers in higher education. The Ph.D. Program at Villanova is unique in that it focuses on the application of advanced nursing knowledge and scholarly inquiry that address professional and practice concerns related to the learning process.

The Graduate Program administers the post-baccalaureate Doctor of Practice – Nurse Anesthesia (DNP-NA) track which is designed to prepare nurses with a sound base of theoretical knowledge and clinical experience in the practice of nurse anesthesia and professional leadership. The Graduate Program also administers the post-masters Doctor of Nursing Practice (DNP) Program which is designed to prepare advanced practice registered nurses, including Nurse Practitioners, Certified Registered Nurse Anesthetists, Clinical Nurse Specialists, Certified Nurse Midwives and Nursing Leaders with advanced knowledge in evidence-based practice, organizational leadership and financial acumen to lead innovation in nursing practice and healthcare.

The Program in Continuing Education is committed to providing quality programs that enhance the professional growth and update the knowledge base of nurses, other health care professionals, and the public on topics related to health care.

The College of Nursing's emphasis on education in values and ethical principles is a pervasive and central theme and emanates from the Catholic and Augustinian tradition of the University. The faculty are expected to serve as role models and mentors for the professional development of students in the exercise of their academic responsibilities.

Academic Policies and Information

Academic Policies

Unless otherwise noted, the College of Nursing follows the general university academic policies and regulations listed in the University section of this *Catalog*.

It is the responsibility of the student to know and comply with all academic policies and regulations of the University and of the College of Nursing. Such policies may change without prior notice.

Note: if a student withdraws from the College of Nursing and is readmitted at a later date, the requirements in effect at time of readmission will be applied. Policies and regulations specific to Undergraduate Nursing students can be found in the M. Louise Fitzpatrick College of Nursing Undergraduate Handbook.

Students are expected to abide by the policies and professional standards established by the College of Nursing. The College of Nursing reserves the right to change program requirements without prior notice to reflect advances in the professional field. If a student withdraws from the College of Nursing and is readmitted at a later date, the requirements in effect at the time of readmission will be applied.

A grade of "C" or better must be attained in all nursing courses for progress in the nursing major.

Students must achieve an examination average of 73% or better in all nursing theory courses that are paired with a lab or clinical course or have clinical as a component of the course. The course numbers are: NUR 2204, NUR 2206, NUR 3104, NUR 3105, NUR 3106, NUR 3107, NUR 4111, NUR 4115, and NUR 4120.

The student must also achieve a 73% or better in the overall course grade. Only one nursing course may be repeated in the curriculum prior to dismissal from the program.

A required course may be repeated once prior to dismissal from the program.

Students must complete, in sequence, the required lower division courses, with a Q.P.A. of 2.0 in order to advance to junior level courses with a clinical component. Students who receive less than a "C" in BIO 1205, BIO 1206 or NTR 2120 will be required to repeat the course(s) before advancing to the Junior level nursing courses. Students must successfully complete, in sequence, courses in the nursing major as indicated in the curriculum plan.

The College of Nursing reserves the right to place on probation or withdraw any student whose performance is deemed unsatisfactory.

International students who are in the BSN program but who are not expatriates residing permanently or working in the United States and will not sit for NCLEX but return to their countries, may have the progression policies suspended, on a case by case basis, by action of the Dean of the College of Nursing and upon formal recommendation of the Program Director.

Academic Advising

Every student entering the College of Nursing is assigned a faculty advisor. It is the responsibility of the student to contact their advisor prior to each registration period and if they are experiencing any academic difficulty. Each student must take responsibility to meet with their advisor on an ongoing basis. Advisors are available during posted office hours or by appointment. If the student experiences difficulty in contacting their advisor, there is a Student Success and Retention Advisor available to see a student during regular office hours.

Academic Grievance Procedure

If a student has a grievance within a nursing course, they are advised to speak with the individual teaching the course. If the problem is not resolved at this level, it may be taken to the Course Leader, Program Director, Associate Dean of the Undergraduate Program in that order.

Preparation for Registered Licensing Examination

For the purpose of continuously preparing nursing students in the baccalaureate program leading to initial licensure as registered nurses for the comprehensive licensing examination (NCLEX-RN), standardized tests developed for this purpose will be administered and evaluated as part of the final course grades beginning in the sophomore year (or its equivalent) at the student's expense.

All senior nursing students (or the equivalent) are required to demonstrate successful achievement on a designated predictive NCLEX-RN readiness assessment examination prior to graduation. This examination, in combination with any required remediation, must be successfully completed as a prerequisite to certification by the College as part of the application process for state licensure.

Academic Probation and Dismissal

Probation

A student is placed on academic probation in the College of Nursing when:

- A required course is failed.
- A grade less than C is earned in science or nursing courses.
- The QPA is below 2.0 in any given semester.

Students who are on probation for earning less than a C in a science or nursing course must complete a mandatory plan of study as determined by the Academic Standing and

Records Committee. Students who do not complete this plan will remain on academic probation.

Dismissal

The College of Nursing reserves the right to dismiss any student whose performance is deemed unsatisfactory. A dismissal from the College may be appealed in writing addressed to the Dean of the FCN. All appeal letters and supporting evidence will be reviewed by the Dean and a decision will be communicated to the student in writing. While all appeal letters will be reviewed, submission of an appeal does not guarantee reinstatement into the FCN.

Admission

Regular Students

All applicants for full-time or part-time study must meet the entrance requirements for admission to the University as listed in this *Catalog*.

Transfer Students

The Fitzpatrick College of Nursing accepts internal transfer applicants from the other colleges at Villanova University at the sophomore level. Eligible candidates will have a GPA of 3.2 with grades of B or greater in all laboratory sciences including Anatomy and Physiology and Chemistry. Interested First Year students should discuss with their Academic Advisor to facilitate a transfer.

Second Degree Applicants

The College of Nursing welcomes applications from prospective students who wish to begin preparing for a career in nursing. These include individuals who possess undergraduate and/or graduate degrees in other fields. Part-time study is possible during the introductory level of the program when pre- requisites are being completed. Full-time study is required during the clinical portion of the program. All applicants must meet the entrance requirements for admission to the University. This track offers a 14-month and 23-month option for individuals with a bachelor's degree in another discipline. Applicants must demonstrate superior academic achievement in prior course work to be eligible for this program. Further inquiries should be directed to the College of Nursing.

Admission to Closed Sections of Courses

Students will not be permitted to enroll in closed sections. Exceptions to this rule will be made only by the Associate Dean of the Undergraduate Program and only when a student must enroll in the specific section in order to complete requirements which are necessary for progression in the program.

Graduate Course Registration for Undergraduate Students

A junior or senior with a 3.00 cumulative quality point average wishing to enroll in a graduate course must have the written approval of the Associate Dean of the Undergraduate Program before submitting a request to the Associate Dean of the Graduate Program. A student who wishes to take NUR 8904 Research in Nursing requires a GPA of 3.5.

International Studies

The College of Nursing, in conjunction with the Office of Education Abroad, is pleased to offer opportunities for Nursing students to study in an overseas university during their course of studies.

The College of Nursing offers a study abroad program in Dingle, Ireland in conjunction with Sacred Heart University during the Fall semester of sophomore year. Students will work closely with their academic advisors to craft their plan of study to ensure transfer of credits and an on-time graduation with their classmates.

Nursing students may participate in international opportunities offered by the College of Nursing as elective experiences. A nursing major may also participate in any of the summer or semester study abroad programs approved by the University and administered by the Office of Education Abroad. However, since these are not

nursing programs, students who participate need to change their course of study and may graduate later than their graduation class. Interested students should see the detailed discussion of International Studies in the Villanova University section of this *Catalog* or contact the Office of Education Abroad, Middleton Hall, second floor, (phone 610-519-6412).

Facilities for Instruction and Practice

The University assumes full responsibility for providing the instruction throughout the entire program. (Students are responsible for their own transportation to and from the various facilities utilized for the practice of nursing.) Community based practice of nursing will most likely require individual means of transportation for agency and home visiting. During the professional portion of the curriculum, theory and laboratory are directed by faculty members. Among the agencies used for student experience are the following:

- Abington Hospital – Jefferson Health, Abington, PA
- Einstein Medical Center Montgomery, East Norriton, PA
- Alfred I. DuPont Hospital for Children, Wilmington, DE
- Bryn Mawr Hospital – Mainline Health System, Bryn Mawr, PA
- Children's Hospital of Philadelphia, Philadelphia, PA
- Holy Redeemer Home Care and Hospice Services, Philadelphia, PA
- Hospital of the University of Pennsylvania, Philadelphia, PA
- Home Care and Hospice – Mainline Health System, Radnor, PA
- Lankenau Hospital – Mainline Health System, Wynnewood, PA
- Clinical Simulation and Learning Resource Center, Fitzpatrick College of Nursing
- Paoli Hospital – Mainline Health System, Paoli, PA
- Penn Care at Home, Philadelphia, PA
- Pennsylvania Hospital, Philadelphia, PA
- Penn Presbyterian Medical Center, Philadelphia, PA
- St. Mary's Hospital, Langhorne, PA

- Thomas Jefferson University Hospital, Philadelphia, PA

Selected school systems, day-care centers, community health centers, senior citizen centers, and industries are also used.

Curriculum

Degrees and Programs

The College awards the baccalaureate degree in nursing (BSN) and provides basic preparation in nursing to those who are studying for the first professional degree in the field. Such students include high school graduates with no prior college experience, college graduates with degrees in other disciplines who made a later decision to study nursing, and adults who are studying for their first college degree.

The Graduate Program awards the master's degree (MSN) and provides preparation and leadership development in selected areas of advanced nursing practice, development of research skills and knowledge of health policy. In addition, course options prepare individuals for positions such as clinical teachers, faculty, nurse practitioners and nurse anesthetists. The Graduate Program also awards the doctoral degree in nursing (PhD) to individuals who are prepared as teacher-scholars for academic careers in higher education and the Doctor of Nursing practice (DNP) for nurse administrators and advanced practice nurses such as nurse practitioners, registered nurse anesthetists, clinical nurse specialists and certified nurse midwives.

The Program in Continuing Education is committed to providing short courses, conferences, workshops and symposia for nurses, other health professionals and the public-at-large on topics related to health care. Some of these programs are developed to update the knowledge of practicing nurses while others provide an academic arena for the sharing and critiquing of papers and ideas relevant to current issues or trends in health care.

Program Requirements

Entrance physical examination, selected diagnostic tests, as well as designated immunizations, are required of all nursing students. Additional or repeated health screening tests are required prior to entry into clinical experiences. Students are required to be certified in Basic Cardio-pulmonary Resuscitation prior to enrolling in NUR 2208. Continuing re-certification is the responsibility of the student throughout the remainder of the program. As a prerequisite to entry into the nursing program, all students are required to have criminal background checks that comply with the Older Adults Protective Services Act and Child Protective Services Law, as well as urine drug screening, child abuse clearance and FBI fingerprinting.

All nursing students are required to participate in a battery of standardized tests to assess nursing knowledge prior to graduation. The cost is assumed by the students. Permission to take the NCLEX Licensure exam may be delayed based upon a student's academic record and performance on the standardized tests.

Degrees

Fitzpatrick College of Nursing Nursing

Nursing, B.S.N. (Traditional)

Bachelor of Science in Nursing
Curriculum (133 credits)

Program [Nursing](#)

Degree Type Bachelor of Science in Nursing

First Year

Fall Semester

Course	Title	Credits
NUR 1102	Intro to Prof Nursing	2
ACS 1000	Ancients	3
BIO 1205	Human Anatomy & Physiology I	4
PSY 1000	General Psychology	3
CHM 1135	General, Organic & BioChem 4	
CHM 1105	General, Organic & BioChem 1 Lab	

Spring Semester

Course	Title	Credits
NUR 1104	Intro to Prof Nursing Practice	2
ACS 1001	Moderns	3
BIO 1206	Human Anatomy & Physiology II	4
ENG 1975	Core Lit and Writing Seminar	3
NUR 1105	Soc Justice&Hlth Eqty Prof Nsg	3
THL 1000	Faith, Reason, and Culture	3

Sophomore

Fall Semester

Course	Title	Credits
NUR 2204	Health Assessment	2
NUR 2205	Practicum in Health Assessment	1
BIO 1185	Human Genetics/ Microbiology	4
SOC 1000	Intro to Sociology	3
NTR 2120	Principles of Nutrition	3
	Social Studies Elective*	3

Spring Semester

Course	Title	Credits
NUR 2206	Essentials of Nursing Practice	2
NUR 2208	Practicum in Essen of Nsg Prac	3
NUR 2108	Human Pathophysiology	3
PHI 1000	Knowledge, Reality, Self	3
PSY 3200	Human Development	3
STAT 1250	Stats in Health Care Research	3

Junior

Fall Semester

Course	Title	Credits
NUR 3104	Nsg Adults & Older Adults I	5
NUR 3105	Psychiatric & Mental Hlth Nsg	5
NUR 3031	Basic Concepts in Pharmacology	3
NUR 3810	Research & Schol in Nsg Pract	3

Spring Semester

Course	Title	Credits
NUR 3106	Nsg Care Adul & Older Adul II	5
NUR 3107	Nsg Care of Women & Families	5
NUR 3131	Applied Pharm in Nsg Prac	2
NUR 3122	Imper for Global & Pub Health	3
PHI 2115	Ethics for Health Care Prof	3

Senior

Fall Semester

Course	Title	Credits
NUR 4111	Nsg Adults w Comp Hlth Prob	5
NUR 4115	Nursing Care of Child & Adul	5
NUR 4119	Nsg Leadership & Health Policy	3
NUR 4031	Safe & Effect Pharm & Par Ther	2
NUR 4200	Seminars in Selected Topics	1

Spring Semester

Course	Title	Credits
NUR 4120	Community & Population Health	7
NUR 4121	Knowledge Integ Pro Nsg Pract	2
NUR 4122	Trans to Prof Nsg Practice	3
	1 Upper Level Theology	3

Students are required to select two electives: One Social Studies (selected from the areas of History, Art History, Political Science, Economics, Global Interdisciplinary Studies, or Geography and the Environment) and one Upper Level Theology Elective.

Social Studies Elective*

Elective Credits 3

Must be selected from the areas of History (HIS), Art History (AAH), Political Science (PSC), Economics (ECO), Global Interdisciplinary Studies (GIS), or Geography and the Environment (GEV) in consultation with the student's major advisor.

1 Upper Level Theology

Elective Credits 3

Theology (THL) course or course with CTHL (Core Theology) attribute, at the 2000 level or above.

Nursing, B.S.N., Honors

Bachelor of Science in Nursing, Honors

Villanova's Honors Nursing Program offers students a distinct and intellectually rigorous academic experience, the hallmark of which is the seminar learning model. Honors courses are taught as small seminars - normally limited to 16 students - that focus on student initiative in discussion, research, and presentations. The program also provides a platform for outstanding faculty to bring forth innovative pedagogy and inquiry across disciplines and colleges.

Program [Nursing](#)

Degree Type Bachelor of Science in Nursing

Academic Requirements

- 30 credits of graded Honors coursework
- At least 15 of the 30 credits must be the required NUR Honors course offerings

NUR Honors Course Offerings (Required)

The following courses are offered with an Honors designation, and are requirements for the Honors Nursing Degree:

Course	Title	Credits
NUR 1104	Intro to Prof Nursing Practice	2
NUR 2108	Human Pathophysiology	3
NUR 3122	Imper for Global & Pub Health	3
NUR 3810	Research & Schol in Nsg Pract	3
NUR 4119	Nsg Leadership & Health Policy	3
NUR 4200	Seminars in Selected Topics	1

Additional Honors Course Offerings

Remaining courses are selected from other Honors course options, with some examples listed below. Honors credit may also be attained in the following ways:

- Graduate Level courses (must be used towards undergraduate degree)
- Contracting non-Honors courses not regularly offered through the Honors program (up to 2 for the Honors Degree)
- Honors Independent Study/Research
- Study Abroad, up to 6 credits with the approval of the Honors Program
- Honors 1-credit colloquium - students may bundle 3 to make 1 upper-level Honors course. This bundle may occur once in pursuit of an Honors Degree or Honors Minor. Colloquium courses are designated as bundle-eligible in the master schedule.
- Honors 1-credit workshops are for enrichment purposes only and will not count toward an Honors credential, nor will the credits be reflected in a student's GPA as workshops are graded at the S/U level.

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3
PHI 1000	Knowledge, Reality, Self	3
SOC 1000	Intro to Sociology	3
	Social Studies Elective*	3

Social Studies Elective*

Elective Credits 3

Must be selected from the areas of History (HIS), Art History (AAH), Political Science (PSC), Economics (ECO), Global Interdisciplinary Studies (GIS), or Geography and the Environment (GEV) in consultation with the student's major advisor.

Nursing, B.S.N. Second Degree 14-month (Express)

Bachelor of Science in Nursing Curriculum (133 credits)

Program [Nursing](#)

Degree Type Bachelor of Science in Nursing

Prerequisites

Degree Requirement	Total Credits
Required Prerequisite Courses	31
Required Nursing Courses	77
General Education Courses	25
Total credits for BSN degree	133

All required prerequisite courses must be taken prior to starting the Accelerated BSN Program. Students may apply to the program before finishing all prerequisites.

Second Degree students must fulfill similar course requirements as other students in Villanova University's BSN Program. In recognition of achievement of the first undergraduate degree, the accepted student will receive 31 transfer credits for required prerequisite courses and 25 credits as general education credits applied toward their nursing degree.

Credit for courses that have been taken at another college or university may be transferred if the course is required in the program and if the grade is "C" or above. In order to determine course equivalency, the course description from the catalog of the outside institution is compared to the course description in the Villanova University catalog; course syllabi are reviewed if necessary. The courses listed below are the Villanova course equivalent for each prerequisite requirement. Students may view the course description by clicking on the course number or title.

Course	Title	Credits
BIO 1205	Human Anatomy & Physiology I	4
BIO 1206	Human Anatomy & Physiology II	4
CHM 1135	General, Organic & BioChem	4
BIO 1185	Human Genetics/ Microbiology	4
STAT 1250	Stats in Health Care Research	3
PSY 3200	Human Development	3
NTR 2120	Principles of Nutrition	3
NUR 2108	Human Pathophysiology	3
THL 1000	Faith, Reason, and Culture	3

Summer Session One

Course	Title	Credits
NUR 1102	Intro to Prof Nursing	2
NUR 1104	Intro to Prof Nursing Practice	2
NUR 2204	Health Assessment	2
NUR 2205	Practicum in Health Assessment	1
NUR 2206	Essentials of Nursing Practice	2
NUR 2208	Practicum in Essen of Nsg Prac	3

Summer Session Two

Course	Title	Credits
NUR 3104	Nsg Adults & Older Adults I	5
NUR 3105	Psychiatric & Mental Hlth Nsg	5

Summer Session Three

Course	Title	Credits
NUR 3031	Basic Concepts in Pharmacology	3

Fall Semester

Course	Title	Credits
NUR 3106	Nsg Care Adul & Older Adul II	5
NUR 3107	Nsg Care of Women & Families	5
NUR 3122	Imper for Global & Pub Health	3
NUR 3131	Applied Pharm in Nsg Prac	2
NUR 1105	Soc Justice&Hlth Eqty Prof Nsg	3

Spring Semester

Course	Title	Credits
NUR 4111	Nsg Adults w Comp Hlth Prob	5
NUR 4115	Nursing Care of Child & Adul	5
NUR 4119	Nsg Leadership & Health Policy	3
NUR 4031	Safe & Effect Pharm & Par Ther	2
NUR 4200	Seminars in Selected Topics	1
PHI 2115	Ethics for Health Care Prof	3

Summer Session Four

Course	Title	Credits
NUR 4120	Community & Population Health	7
NUR 4121	Knowledge Integ Pro Nsg Pract	2
NUR 4122	Trans to Prof Nsg Practice	3
NUR 3810	Research & Schol in Nsg Pract	3

Nursing, B.S.N. Second Degree 23-month (Flex)

Bachelor of Science in Nursing Curriculum (133 credits)

Program [Nursing](#)

Degree Type Bachelor of Science in Nursing

Prerequisites

Degree Requirement	Total Credits
Required Prerequisite Courses	31
Required Nursing Courses	77
General Education Courses	25
Total credits for BSN degree	133

All required prerequisite courses must be taken prior to starting the Second-degree BSN Program. Students may apply to the program before finishing all prerequisites.

Second Degree students must fulfill similar course requirements as other students in Villanova University's BSN Program. In recognition of achievement of the first undergraduate degree, the accepted student will receive 31 transfer credits for required prerequisite courses and 25 credits as general elective credits applied toward their nursing degree.

Credit for courses that have been taken at another college or university may be transferred if the course is required in the program and if the grade is "C" or above. In order to determine course equivalency, the course description from the catalog of the outside institution is compared to the course description in the Villanova University catalog; course syllabi are reviewed if necessary. The courses listed below are the Villanova course equivalent for each prerequisite requirement. Students may view the course description by clicking on the course number or title.

Course	Title	Credits
BIO 1205	Human Anatomy & Physiology I	4
BIO 1206	Human Anatomy & Physiology II	4
CHM 1135	General, Organic & BioChem	4
BIO 1185	Human Genetics/Microbiology	4
STAT 1250	Stats in Health Care Research	3
PSY 3200	Human Development	3
NTR 2120	Principles of Nutrition	3
NUR 2108	Human Pathophysiology	3
THL 1000	Faith, Reason, and Culture	3

Fall Semester I

Course	Title	Credits
NUR 1102	Intro to Prof Nursing	2
NUR 1104	Intro to Prof Nursing Practice	2
NUR 2204	Health Assessment	2
NUR 2205	Practicum in Health Assessment	1
NUR 2206	Essentials of Nursing Practice	2
NUR 2208	Practicum in Essen of Nsg Prac	3

Spring Semester 2

Course	Title	Credits
NUR 3104	Nsg Adults & Older Adults I	5
NUR 3105	Psychiatric & Mental Hlth Nsg	5
NUR 3031	Basic Concepts in Pharmacology	3
NUR 1105	Soc Justice&Hlth Eqty Prof Nsg	3

Summer Semester 3

Course	Title	Credits
NUR 3810	Research & Schol in Nsg Pract	3
NUR 3122	Imper for Global & Pub Health	3

Fall Semester 4

Course	Title	Credits
NUR 3106	Nsg Care Adul & Older Adul II	5
NUR 3107	Nsg Care of Women & Families	5
NUR 3131	Applied Pharm in Nsg Prac	2
PHI 2115	Ethics for Health Care Prof	3

Spring Semester 5

Course	Title	Credits
NUR 4111	Nsg Adults w Comp Hlth Prob	5
NUR 4115	Nursing Care of Child & Adul	5
NUR 4119	Nsg Leadership & Health Policy	3
NUR 4031	Safe & Effect Pharm & Par Ther	2
NUR 4200	Seminars in Selected Topics	1

Summer Semester 6

Course	Title	Credits
NUR 4120	Community & Population Health	7
NUR 4121	Knowledge Integ Pro Nsg Pract	2
NUR 4122	Trans to Prof Nsg Practice	3

Global Health Minor

Chairperson: Catherine R. Curley, Ph.D., R.N.

Office Location: 388 Driscoll Hall

Telephone: (610) 519-5969

[Website](#)

About

Global Health is influenced and determined by factors as diverse as gender, race, ethnicity, political priorities, social determinants of health, climate, geography, accessibility and acceptability of care and cultural and religious traditions. The Global Health Minor educates students about these factors and the interdisciplinary response to addressing global health challenges.

The Global Health Minor is congruent with the Mission and strategic plan of the University and the Fitzpatrick College of Nursing's goals to emphasize a curriculum with a global perspective and respect for differences among peoples and cultures and to educate individuals for service to a diverse society including all sectors and strata of the population.

MINOR (15 credits)

The Minor is open to all undergraduate students in their sophomore, junior, and senior years and is meant to expose students to a basic understanding of global health issues drawing upon the expertise that Villanova University has to offer. All students who want to participate in the Global Health Minor must meet with their Academic Advisors to discuss their course of study to assure the student is able to meet all requirements. Once you and your Academic Advisor have agreed you are able to meet all requirements of the Minor, please fill out the [Global Health Minor Application](#) and submit it to the Director of the Center for Global and Public Health. No more than one elective transferred from another University can be applied toward

the Global Health Minor. Transfer credits from a study abroad semester while a student was enrolled at Villanova University will be evaluated on a case-by-case basis.

Program [Nursing](#)

Degree Type Minor

Course Requirements for Global Health Minor (5 Courses)

The minor consists of 15 credits which includes three (3) required and two (2) elective classes. There are no specific prerequisites other than those specified for some of the elective courses.

REQUIRED: Select three (3) of the following courses to meet the minor requirements. Each course is 3 credits.

NUR 7070 Nutrition and Global Health (Offered Fall semesters) 3 credits

NUR 7071 Food As Medicine (Offered Fall and Spring Semesters) 3 credits

NUR 7084 Principles of Epidemiology (Offered Spring semesters) 3 credits

NUR 7088 Human Trafficking (Offered Spring semesters) 3 credits

NUR 7090 Planetary Health for Global Populations (Offered Fall and Spring semesters) 3 credits

NUR 7091 Global Perspectives for Climate Change and Health (Offered Spring semesters, asynchronous on-line) 3 credits

Course	Title	Credits
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Plus two (2) electives from a range of disciplines. A list of approved electives may be found on the Global Health Minor [website](#).

College of Professional Studies

College of Professional Studies Directory

Christine Kelleher Palus, Ph.D., Dean
David Cregan, O.S.A, Ph.D., Associate Dean,
Academic Affairs & Strategic Initiatives
Susan Leighton, M.B.A., Assistant Dean,
Academic Programs
Pete Watkins, Ph.D., Director, Teaching, Learning
and Assessment
Kirstin DeFusco Houtz, Ed.D., Director, Academic
Advising and Student Support

Offices: Vasey Hall, Telephone: 610.519.4300
Email: cpsinfo@villanova.edu
Website: <https://www1.villanova.edu/university/professional-studies.html>

History

In May 2014, Villanova University created the College of Professional Studies (CPS)— the first new College at the University in 50 years. CPS provides academically rigorous undergraduate degree and certificate programming, as well as professional education —on campus and online—for the adult learner and working professional.

CPS continues Villanova's century-old tradition of service to adult learners and complements Villanova's breadth of academic offerings by providing innovative programs with flexible delivery options.

Academic Mission

The College of Professional Studies (CPS) provides an academically rigorous education to high-achieving adults who are balancing educational and professional aspirations with life's commitments.

Grounded in the Augustinian mission and core values of *Veritas*, *Unitas*, and *Caritas*, CPS celebrates the diversity and creativity of all

members of our academic community, and seeks to inspire global citizenship, professional excellence, and lifelong learning.

CPS embodies Villanova's enduring commitment to provide access to academic excellence, and offers premier, relevant, and innovative programs, taught by an engaging faculty of scholars and practitioners.

Vision

We strive to provide a purposeful, transformative, and results-driven education for students at all stages of their lives.

We are committed to a supportive and collaborative educational experience. We want our students to feel empowered and emboldened.

We will be a preeminent hub for innovative professional programming.

Our curriculum is designed to be focused, responsive, and nimble, drawing inspiration from evolving workforce and career trends.

Students served at CPS include working professionals who seek to complete an undergraduate degree or credit-bearing certificate with flexible course options; postgraduates who seek requirements for admission to graduate or professional schools or advanced certifications; students interested in undergraduate courses as a non-matriculated student for personal development; senior level high school scholars seeking individual university level courses; and senior citizens (age 65 and over) who wish to enroll in undergraduate courses for personal enrichment.

Degree-seeking students have typically earned a minimum of 15 college credits or completed a minimum of four years post-secondary work experience, military experience, professional education, or a combination of the three.

Academic and Student Information

Academic Advising

Kirstin DeFusco Houtz, Ed.D., Director, Academic Advising and Student Support

Robyn Dooley, Academic Advisor

Olivia D'Aiutolo Mendenall, M.Ed., Associate Direct, Academic Advising and Student Support
102 Vasey Hall

Telephone: 610-519-4300

Website: https://www1.villanova.edu/content/university/professional-studies/villanova-cps-experience/advising/advising_support_for_credit.html

Academic Advisors serve a supporting yet vital role to the student's success at Villanova and thereafter. We seek to cultivate students who are advancing their educational pursuits to be changemakers in the communities. We understand the demands on our student population and first seek to meet them where they are in their journey. By doing so, our goal is to develop and nurture the total person to help students achieve their academic, personal, and professional aspirations.

In line with the mission of the University and College, we adhere to the following enduring commitments:

- To foster academic excellence
- To honor our values and traditions
- To serve our students, alumni, and global community.

Leadership, Internship, and Professional Development Opportunities

The College of Professional Studies offers various opportunities for students to earn academic credit while enhancing professional growth through practical experiences and workshops. Through consultation with their advisor, students

can choose from the courses below to complement their undergraduate major curriculum.

CPS 1001 College and Professional Success Strategies

This course is designed to lay the groundwork for first-year students' success at Villanova and thereafter. Students will gain knowledge about Villanova, acclimate to the academic world, and develop a sense of self-awareness. Class meetings will introduce students to pertinent topics and valuable campus resources that will support and contribute to a successful academic career.

CPS 1002 Tech Competency

This course is designed for first-year students within the College of Professional Studies and to provide a framework for readiness and success to adopt, adapt, and apply technology for success at Villanova and thereafter. Aligned with CPS 1001, in this course, students gain knowledge about various technology platforms that are essential to your success as a college student.

CPS Internship Practicum

Internships provide concrete opportunities for students to make tangible connections between classroom theory and practical application. Students may earn up to six (6) credit hours for outside-of-the-classroom work while completing corresponding assignments. To be eligible, students must be matriculated, in good academic standing and have earned at least fifteen (15) credits at Villanova. All internships must be approved by the Assistant Dean of Academic Programs and faculty chair of the intern's sponsoring academic area.

CPS Leadership Symposium

The annual Leadership Symposium is a professional education course designed to bring together managers, team leaders, and change agents for an intensive, engaging, and interactive learning experience. The symposium is offered as either a 3-credit course or a non-credit certificate course.

CPS Professional Development Courses

CPS offers a series of one (1)-credit workshops to fulfill our commitment to providing innovative, academically rigorous, and relevant educational experiences for our students. These timely courses vary each semester as they are responsive to career trends, the evolving workforce, and global events.

Awards

Dean's List

At the end of the fall and spring semesters, the College of Professional Studies officially recognizes its high-achieving students by including their names on the Dean's List. Inclusion on this list recognizes a student's commitment to an intellectually rigorous education in the liberal arts and sciences, one that fosters critical insight, mature judgment, and independent thinking. Approximately two months after the end of the semester, an appropriate letter of acknowledgement is sent to the student at the permanent address on file with the University. In addition, students' names are displayed on various media outlets and throughout the college. To be eligible for this honor, students must meet the conditions below:

- Must be a matriculated degree-seeking student within the College of Professional Studies
- Completed at least six (6) credits in a given semester
- Achieved a minimum semester average GPA of 3.50
- At least six (6) credits must be graded using the standard letter grade method
- At time of calculation, had no Incomplete (N) nor unreported grades (NG)
- Grades such as S, WX, or N grades are not permitted in credits counting towards Dean's List

Approved by Dean Palus 01.20.2021

College Medallion

The CPS Medallion of Academic Excellence is given each year by the College of Professional Studies in recognition of outstanding achievement in a specific major. It is the highest distinction the College can award to a graduating student and serves as a visible symbol of the

significant contributions made by the recipient to the life of our College Community. Medallion recipients are selected based on criteria including cumulative grade point average, academic creativity, and perseverance.

Registration for Current Villanova Students

Current Students register using the MyNOVA system, after obtaining their PIN from their academic advisor. Students dismissed from Villanova University may not attend Summer Sessions.

For more information on summer sessions and assistance with registration, call (610) 519-4300 or visit <https://www1.villanova.edu/content/university/summer-sessions.html>.

Student Class Levels

Students at CPS are classified into the following levels based on their corresponding earned credit hours as follows:

Class Level	Credit Hours Earned
Freshmen	0 - 29
Sophomores	30 - 59
Juniors	60 - 89
Seniors	90 +

Flexible Enrollment Options

The College of Professional Studies offers flexible pathways designed to help adult students achieve their academic goals while balancing life's responsibilities. Courses are delivered via in-person, online or hybrid modalities. In addition, various course lengths are offered including full semester, seven weeks (fast forward), and weekend.

Full Semester Courses

Courses that run the full semester follow the Undergraduate Academic Calendar dates and deadlines found on the Provost's website: <https://www1.villanova.edu/villanova/provost.html>.

Fast Forward Courses

Fast Forward courses are designed to help adult students accelerate their path toward graduation. These courses are restricted to CPS students only and are scheduled as two-seven-week sessions throughout the fall and spring semesters. The session's start and end dates normally coincide with the Villanova University Academic Calendar and are listed on the CPS website: https://www1.villanova.edu/villanova/professionalstudies/Course_Schedules/calendar.html.

Schedule and Time Sequence

Fast Forward courses* are held in person on weekday evenings, or offered online as distance learning. On campus courses are designed with 1,470 minutes of in person class time and an additional 780 minutes of required instructional equivalent online activities and assignments for a total of 2,250 minutes or 37.5 hours per course.

Fully online courses also meet for the equivalent of 2,250 minutes using a combination of live instruction time (1-2 hours per week) and instructional equivalent activities.

Weekend Courses*:

Courses offered over a weekend meet on Friday evening for 3 hours, a full day on Saturday (8 hours) and Sunday morning (3 hours). These courses also require additional pre and post meeting reading and assignments.

**Specific attendance and drop/add policies apply, please refer to the Attendance Policy and Drop, Add, Withdrawal and Refund Policies for more information.*

Course Modality

Courses are offered in person (on campus or another location), online (DL) or hybrid. Modality is identifiable by attribute in the Master Course Schedule. Online courses may be either synchronous which require virtual live class sessions, or asynchronous which have no requirement for live class sessions. Asynchronous courses are identifiable by attribute in the Master Schedule.

Variable Course Load

Students may vary their course load semester by semester, depending on their professional and personal demands. Full time status is defined as attempting 12 or more credits per semester; students attempting less than 12 credits per semester are considered part-time.

Students requesting to enroll in more than 17 credit hours in a single semester (but less than or equal to 21 credits) must have a GPA of at least 3.0 and must meet with their advisor prior to submission of the [Credit Increase Request Form](#).

Change of course load may affect financial aid status; students should contact the Office of Financial Assistance for more information. Please see the Bursar's website for more information about credit limits and costs.

Summer Sessions

Summer sessions at Villanova are designed to assist CPS students and students from across the University as well as visitors in fulfilling their academic needs through a variety of courses offered each summer.

Summer sessions run two four-week sessions, and one eight-week session, and follow the dates specified on the [University Academic Calendar](#).

Admissions

Admissions Requirements

Students in the College of Professional Studies are typically working professionals who are seeking to complete their degree or credit-bearing certificate in a flexible manner. Our students have usually earned prior college credit and/or an associate's degree. For students without earned college credit, we require a minimum of four years post-secondary work experience, military experience, professional education, or a combination of the three before applying to our degree or credit-bearing certificate programs.

Students in the College of Professional Studies, on average, are 37 years old with 5-11 years' work experience and have generally earned at least 15 college credits.

Prospective adult students interested in applying to a degree or credit-bearing program in the College of Professional Studies will need to submit the following to be considered for admissions:

Degree Programs

- Application fee: \$50.
- Official college transcript(s) for each school attended. *Note: Unofficial transcripts can be submitted as part of the application, but official transcripts must be received by CPS upon admission and before registration*
- An official high school transcript, or proof of passing the GED, is only required for students who have not earned 15 or more college credits.
- A 350-word essay, discussing your interest in the program to which you are applying, and the goals you wish to achieve as a result of attainment of a degree.
- Current resume showing 4 years of post-secondary work experience.

Credit-Bearing Certificate Programs Certificate in Accountancy

- Application fee: \$50.
- Official transcript documenting a Baccalaureate degree from an accredited institution. *Note: Unofficial transcripts can be submitted as part of the application, but official transcripts must be received by CPS upon admission and before registration.*

Certificate in Information Systems and Technology; Leadership; Human Resource Management, Entrepreneurship; Organizational Development & Management; and Public Service & Administration

- Application fee: \$50.
- Official college transcript(s) for each school attended. *Note: Unofficial transcripts can be submitted as part of the application, but official transcripts must be received by CPS upon admission and before registration.*

- An official high school transcript, or proof of passing the GED, is required for students who have not earned 15 college credits.
- Bachelor's degree is not required to enroll and all credits earned can be applied towards a degree at CPS.

Pre-Health Professions Certificate

- Application fee: \$50.
- Official transcript documenting a Baccalaureate degree from an accredited institution. *Note: Unofficial transcripts can be submitted as part of the application, but official transcripts must be received by CPS upon admission and before registration.*
- Statement of Purpose describing the applicants' career and educational goals, reasons for pursuing the Pre-Health Certificate, and please explain if the applicant believes their transcripts and previous academic history do not present an accurate picture of their academic ability. The statement of purpose should be around 1-2 pages.

College of Professional Studies International Student Admissions

- Application fee: \$50.
- Transcripts: High school transcripts and official transcripts from all institutions of higher education where applicant completed coursework are required. Official English translation required by [WES](#) or [NACES](#) approved agency.
- Non-native English speakers must also submit official scores from either [TOEFL](#) or [IELTS](#).
- Completed Certification of Finances form along with bank statement (dated no later than three months prior to the submission of your application) showing the ability to meet tuition and living expenses. If the bank statement is not in the applicant's name, then a letter of support must accompany the bank statement of the account holder stating he/she will financially support the application while he/she is attending Villanova.

The College of Professional Studies does not offer student housing. All international CPS students must secure their own housing.

International students are only admitted to the following CPS credit-bearing programs:

- Bachelor of Interdisciplinary Studies (BIS)
- Bachelor of Arts in Leadership Studies (BA)
- Bachelor of Science (BS)

Official Transcripts should be sent to:

- **Mail** – Villanova University, College of Professional Studies, 800 Lancaster Avenue, Villanova, PA 19085;
- **Electronic** – cps.info@villanova.edu

Individual Courses at Villanova

The College of Professional Studies welcomes students interested in taking individual courses, but not enrolling in a degree program. These students typically enroll for professional enrichment or to complete prerequisite courses for another program. The application process to enroll in individual courses is competitive and dependent upon course availability. Students must have completed at least 15 college credits and demonstrated strong academic performance.

Students accepted to enroll in individual courses are only eligible to enroll in a maximum of 9 credits and are admitted for one academic semester.

During the University's Summer Sessions, anyone who has earned a high school diploma (including individuals who are enrolled in another university) may apply to enroll in a course as a visiting student. Students must submit a copy of their high school or college transcript. High school applicants must have at least a 3.0 GPA.

Admissions Policies

Admission Deferment Policy

Students who confirmed admission to CPS who now wish to defer their start date to a later semester may apply for an admission deferment.

Requests to defer an offer of admission will be reviewed on a case-by-case basis and may be granted for reasons including illness, military service, or other extenuating circumstances. Supporting documentation must be provided with the application for deferment.

An admission deferment may be granted for a maximum of one year. Deadline for application of deferment is the same date as the drop/add deadline for the current semester.

Failure to meet any of these terms may result in the revocation of admission. In such a case, an applicant will be required to reapply for admission to the University by the appropriate application deadlines.

Readmission Policy

Students are expected to make adequate, timely progress toward completion of their degree or credit-bearing certificate in the College of Professional Studies. Students who have voluntarily withdrawn from the College or have been away from the program without notifying the University for one academic calendar year may submit a petition for re-admission. In addition to submitting a petition, students will need to submit a new application to CPS. Petitions should be addressed to the Dean of the College of Professional Studies. The decision to re-admit students is made by the Dean, in consultation with the Director, Admissions and Enrollment and the Assistant Dean, Academic Programs.

Students may only re-admit one time to the College of Professional Studies.

To have re-admission considered, a former student should submit the following in their petition:

1. Full name at time of previous enrollment.
2. Name of previous degree / credit-bearing certificate program and major (if applicable).
3. Dates of attendance.
4. Reasons for withdrawal or absence.
5. Timetable for completion of degree / certificate requirements including expected date of graduation, if re-admitted.
6. Official transcripts of any universities attended since you left Villanova.
7. Complete the Declaration of Major Form (only required if applicant has completed 72 or more Villanova credits)

Students who are successfully re-admitted are subject to the rules and degree requirements as specified in the Undergraduate Catalog in effect for the academic year in which they are re-enrolled. This means that students will be

required to complete any new courses or other graduation requirements that are currently required. A return to study is not always granted. Prior acceptance to any Villanova program does not guarantee future acceptance to that same or another program regardless of coursework completed or GPA.

The Dean will review the petition, the Assistant Dean's and Director's recommendations and will contact the student with a final decision. All decisions made by the Dean on matters of readmission are final and without right of further appeal.

Exceptions to the conditions of the above policy will be made for service members who have not been able to attend school due to military service.

Per the Academic Standing Policy, found on the Office of the Provost's Website: "Any student who has not completed a degree within twelve years must complete a degree through CPS. If the degree or major pursued by the full-time student is not offered by CPS, then the former full-time student must choose a degree and/or major offered to part-time students."

Visiting Student Admission

Students who are currently enrolled in another college or university can apply and be considered based on individual circumstances and with an official letter from their home institution. The letter must state that they are in good academic and disciplinary standing and the credits earned at Villanova can be transferred to the home institution. Students are admitted for one semester only. Academic advisement and the transferability of a Villanova summer course to the visiting student's college/degree program is the responsibility of the student.

High School Scholars Admission

Academically accomplished current high school students may apply to take courses in the Fall, Spring, or Summer Session. Current high school students are eligible to take one 3-credit course per semester. Students under the age of 18 are

provided an approved course list from the Office of the Registrar for each semester. Students must submit an official High School transcript along with a parent permission letter and a letter from their High School indicating permission to take classes at Villanova.

Pre-College Summer Academy Admission

Exceptional high school juniors and seniors, as well as incoming college freshmen are welcome to apply for the Pre-College Summer Academy. Students must submit an official High School transcript, a statement of purpose, 1 letter of recommendation, along with a parent permission letter to be considered for admissions. Space is limited and admission is competitive.

Curriculum

Degree Programs Offered

The College of Professional Studies offers four undergraduate degrees - Bachelor of Interdisciplinary Studies (BIS), Bachelor of Arts (BA), Associate of Arts (AA) and Associate of Science (AS) degree. In partnership with the College of Liberal Arts and Sciences, CPS also offers other degrees including a Bachelor of Science (BS). These degrees, varied majors, and delivery options provide applicable, relevant, flexible, and engaging courses of study for adult learners.

Degrees	Major	Delivery Option	Credits
Associate of Arts (AA)	n/a	On Campus, Hybrid, Online	60
Associate of Science (AS)	n/a	On Campus, Hybrid	60
Bachelor of Interdisciplinary Studies (BIS)	General Studies	On Campus, Hybrid, Online	120
	Entrepreneurship	Hybrid, Online	120
	Human Resource Management	Hybrid, Online	120
	Information Systems and Technology	Hybrid, Online	120
	Leadership	Hybrid, Online	120
	Organizational Development and Management	Hybrid, Online	120

Degrees	Major	Delivery Option	Credits
Bachelor of Arts (BA)	Public Service and Administration	On Campus, Hybrid, Online	120
	English*	On Campus, Hybrid	122
	History*	On Campus, Hybrid	122
	Leadership	Hybrid, Online	122
	Public Service and Administration	On Campus, Hybrid, Online	122
Bachelor of Science (BS)	Sociology*	On Campus, Hybrid	122
	Computer Science*	On Campus, Hybrid	122
	Mathematics*	On Campus Hybrid	122
	Statistics*	On Campus, Hybrid	122

*These majors are offered in partnership with the College of Liberal Arts & Sciences and may require daytime classes to complete. Please refer to the specific major requirements linked in the table above and under the [College of Liberal Arts & Sciences](#) section in this catalog.

Minor Options

A minor in a specific academic discipline typically consists of 15% or more of the total hours required in an undergraduate curriculum. Courses that satisfy minor curricula may only count in one other area in a student's degree (i.e., LDR 2070 may count for both Leadership minor and ODM major). A maximum of 1 (one) transferred course may be applied to the minors listed below. In addition to the four minors below, CPS students have the option of pursuing minors housed in other colleges across Villanova. Students must adhere to all guidelines outlined by the issuing college and/or department. To declare a CPS minor, students must complete the [Change to Major/Minor Form](#).

Minors	Delivery Options	Credits
Entrepreneurship	Hybrid, Online	15
Human Resource Management	Online	15
Information Systems and Technology	Hybrid, Online	15
Leadership*	Hybrid, Online	18
Organizational Development and Management	Online	18

*Leadership minor is also available to Army ROTC students enrolled in CLAS. Those students must follow CLAS guidelines of overload and are restricted to one (1) Fast Forward course each semester.

Combined Bachelor/Master Programs

The combined bachelors to masters programs offer exceptional CPS students the opportunity to start taking master's level courses that will count towards both a bachelor's and a master's degree. To be eligible for a combined degree program, students must have:

- completed all core requirements,
- earned a minimum of 90 credit hours, and
- submit the Combined Bachelor/Masters Program Interest [Form](#).

Students are expected to consult with their academic advisors on the applicability of graduate level coursework towards their undergraduate degree. Applications are officially reviewed by the respective graduate program.

Students must adhere to all policies outlined the graduate program if admitted into a combined program.

Degrees	Eligible Majors	Credits
BIS/MS in Human Resource Development	General Studies	147
	Human Resource Management	147
	Leadership	147
	Organizational Development and Management	147
BIS/MS in Software Engineering	Information Systems and Technology	141
BIS/MPA or BA/MPA in Public Administration	General Studies	150
	Leadership	150/ 152
	Organizational Development and Management	150
	Public Service and Administration	150/ 152

Credit-Bearing Certificates

CPS offers a variety of certificate programs designed for post-graduate work or for students who have not yet earned a bachelor's degree and want to specialize in a particular area.

Certificates	Delivery Options	Credits
Accountancy	On Campus	36

Information Systems and Technology* (two tracks: A, B)	On Campus (track A), Hybrid or Online (track B)	12 or 14
Leadership*	Hybrid, Online	12
Pre-Health Professions	On Campus	30
Entrepreneurship*	Online	12
Human Resource Management*	Online	12
Organizational Development and Management*	Online	12
Public Service and Administration*	Online	12

*Credit-bearing certificate programs that do not require a bachelor's degree prior to admission transfer seamlessly into an AA or baccalaureate degree program.

Degree Requirements

Each baccalaureate degree is made up of three distinct categories: Core Curriculum, Major Requirements, and Free Electives.

The Associate degrees are comprised of the Core Curriculum and Free Electives only. The core area follows specific course curricula; however, students have freedom to choose courses for their free electives (see [Free Electives policy](#)). Students must meet the following requirements to earn an associate or baccalaureate degree from Villanova University:

- Earned the minimum number of credit hours of the designated program
- Successful completion of the Core Curriculum, Major Requirements (if applicable), and Free Electives
- Achieve a 2.0 cumulative grade point average (GPA) for all course work taken at Villanova
- A minimum of half of the Core Curriculum requirements must be fulfilled at Villanova (AA, AS, BA, and BS only)
- A minimum of half of the requirements for the major must be fulfilled at Villanova
- Residence requirement is met (see University [policy](#)), at least 30 credits of a BIS degree and 30 credits of an associate degree must be earned at Villanova (See [CPS Transfer Credit Policy](#)).
- Discharge of all financial obligations to Villanova University.

A student's eligibility for graduation is determined by the Assistant Dean, Academic Programs. It is the student's responsibility to ensure all requirements for graduation are met.

Bachelor of Interdisciplinary Studies Core Curriculum

The Bachelor of Interdisciplinary Studies, in the tradition of the Catholic Augustinian Intellectual Tradition, is a wholistic program designed to enhance the fullness of the human person through a course of rigorous studies that enriches both mind and heart. In so doing, we aim to collaborate with our students to craft an inspiring course of study, guided by the interests and aspirations of the individual learner.

A Bachelor of Interdisciplinary Studies provides the flexibility to select courses where students have strong academic interest. We are committed to the integration of real-life experiences of our students and their goals, both personal and professional.

The Core Curriculum is comprised of four broad subject areas - Understanding Self and World, Diversity and the Common Good, Creative Vision and Cultural Insight, and Scientific and Analytical Inquiry. These are the subject areas that will focus the learning experience on a track for success to encompass the fullness of who students are and who they dream of becoming through intellectual enrichment and career goals.

Bachelor of Interdisciplinary Studies Core Curriculum (39 Credits)

Understanding Self and World (15 Credits)

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
PHI 1000	Knowledge, Reality, Self	3
THL 1000	Faith, Reason, and Culture	3
ETH 2050	The Good Life:Eth & Cont Prob	3

Diversity and The Common Good (9 credits)
Students choose from Designated Attributed Courses: Africana Studies (AFR), Arab and Islamic Studies (AIS), Asian Studies (AS), Diversity Requirement (DIV1, DIV2, DIV3), Cultural Studies (CST), Peach & Justice (PJ), Deaf Studies Track (DEAF), Disabilities Track (DSBL), Gender and Women's Studies (GWS), Core History (CHIS), Humanities (HUM), Latin American Studies (LAS), Social Science A&S Core (ASOC), Core Social Science (SCCS), Social Science Elective (SOCE), Social Science (SCSC), Service Learning (SL), Core Service Learning (SERV), Theology (CTHL), Russian Area Studies (RAS), and URJDC.

Course	Title	Credits
	Varies	9

Scientific and Analytical Inquiry (9 credits)
Students choose from:

CPS Research Methods

Natural Science: Students choose from AST, BIO, CHM, CPS 1101, CPS 1103, GEV, MSE, PHY, and PSY 2000)

Mathematics: Students choose from MAT, Computer Science A&S Core (ACSC), Mathematics A&S Core (AMAT), and Mathematics (MAT).

Course	Title	Credits
	Natural Science	3
	Math, Statistics, or Computer Science Course	3

Creative Vision and Cultural Insight (6 credits)
Students choose from Designated Attributed Courses: (ARB, CHI, COM, ENG, ENTR, FFS, GRK, IS, JPN, ITA, SPA, RLL, RUS, Writing Enriched Requirement (WREN), Writing and Rhetoric (WRRH), Core Fine Arts Requirement (FINE).

Varies

Elective Credits 9

Cultural studies, diversity requirements, film, fine arts, language, literature, theatre, etc.

Natural Science

Elective Credits 3

Mendel Science Experience

Math, Statistics, or Computer Science Course

Elective Credits 3

Choose a course with the subject code MAT, STAT, or CSC.

Free Electives

The final component of a student's degree is the Free Electives which are courses that neither satisfy the requirements of the Core Curriculum nor the student's individual Major. The number of Free Electives is dictated by the student's program as they make up the remaining credits needed to fulfill graduation requirements. These courses typically include any undergraduate course offered at Villanova. Free Electives allow students the flexibility to pursue interests outside their chosen major by taking individual courses or declaring a minor. Students are encouraged to discuss how their Free Electives should be utilized with their advisor. CPS has the following guidelines regarding Free Electives:

- Students may request S/U grading policy for a maximum of three (3) courses of their Free Electives
- Students may transfer in a maximum of eight (8) LFRE 1000 courses (up to 24 credits) that count as Free Electives

Academic and Student Policies

Unless otherwise noted, The College of Professional Studies follows the general University academic policies and regulations listed on the Office of the Provost's [website](#). It is the responsibility of the student to know and observe all academic policies and regulations of the University and the College of Professional Studies. Note: such policies may change without prior notice.

Academic Bankruptcy

A CPS student who formerly attended Villanova University and has returned after a period of 12 years or more with a cumulative GPA below a 2.00 may be permitted to request academic bankruptcy for work completed prior to their return. Students must have completed two consecutive semesters at CPS and have met all required conditions of their CPS admission. Normally grades which earned a D or below will be considered for bankruptcy. A maximum of 30 credits can be bankrupted. All bankrupted grades will be excluded from the cumulative grade point average (though a record of the student's work will remain on the transcript). Application must be made in consultation with academic advisor and must be accompanied by written explanation of request. All repeated courses must be taken at Villanova. Once academic bankruptcy has been approved, the student may not revoke the decision and the original grades cannot be reinstated. Academic bankruptcy may be granted only one time during a student's entire academic career at the University.

Advisors will educate students on this policy during their first meeting. Advisors will work up the Academic Bankruptcy Spreadsheet with the student's information. After the conclusion of their second consecutive semester, the form is submitted to the Assistant Dean, Academic Programs who sends it to the Assistant Director of Student Support Services for processing.

Advanced Academic Credit

In addition to the advanced academic credit accepted by the University, CPS students may gain credit by examination by means of the College Level Examination Program (CLEP) administered by the College Board. Credit is awarded for the CLEP Subject Examinations and NOT for the General Examinations. CLEP credits are considered transfer credits. See the [list of transferable CLEP courses](#). A score of 60 or higher on an approved Subject Examination will be considered for credit.

Incoming students who have taken Advanced Placement (AP) or International Baccalaureate Higher Level (IB) or CLEP exams should contact their Academic Advisor to verify Villanova's

receipt of the official scores and ensure that proper adjustments have been made to their academic record. Students should request that the College Board send AP scores directly to Villanova University (school code 2959). [See Advanced Placement and IB Credit Policy](#).

A maximum of 90 transfer credits, which includes, CLEP, AP and IB credits, and credits from other colleges or universities, may be accepted toward a baccalaureate degree.

Students seeking to transfer credits should discuss transferability with their Academic Advisor.

Class Attendance

Attendance and engagement during classes are vital to student success. As such, CPS retains the following policies surrounding class attendance*:

- Full Semester Courses: CPS follows the University [Class Attendance Policy](#) for all full semester courses.
- Fast Forward Courses: Absences by students in Fast Forward classes are problematic due to the limited number of class sessions. If a student expects to miss more than one session, they should reconsider enrolling in the class.
- Weekend Courses: Students are required to attend all sessions of a course offered over a weekend.

Drop, Add, Withdrawal, and Refund Policies

- Full Semester Courses: CPS follows the University Policies and Deadlines found on the academic calendar for dropping/adding, withdrawal and refunds from full semester courses.
- Fast Forward Courses: Students may add or drop a Fast Forward course within the first week of the class meeting. Dropping a Fast Forward course before this deadline creates no financial penalty, per the [Tuition Refund Schedule](#) via the Bursar's Office.

Students may receive an authorized withdrawal from a Fast Forward course without academic penalty and receive a grade of "WX" up to Week 4 (four) of the course. After that date, a student seeking authorized withdrawal without penalty must petition the Dean, who has sole authority to

grant withdrawals without penalty. Students dropping or withdrawing from any course should review the Bursar's [Website](#) for information on tuition refunds.

Declaration of Major

Students enter the College of Professional Studies as undeclared regardless of their academic standing. The intention is for students to explore different major options by taking diverse classes during their early tenure.

To ensure students are progressing towards an undergraduate degree in a timely manner, all undeclared students must officially declare a primary major no later than the registration period during the term in which they will reach 72 completed academic credits. This includes all credits i.e., Villanova, transferred from other institutions, and test credits. Once a student declares a major, they remain eligible to change their major and/or add a second.

Students are encouraged to consult with their advisor regularly to develop an individualized academic plan.

A registration hold will be placed on a student's account who does not declare a major by the required term. This hold will prevent students from all future registration activities (i.e., adding, dropping, or withdrawing) until it is cleared. To clear this registration hold, undeclared students must declare a major.

Students officially declare a major by submitting the online Change to Major/Minor Form on the [CPS Policies and Forms webpage](#). To access this form, students will need to log in with their Villanova single sign on

Declaration of Major for Returning Students

Those students who are coming back to Villanova with less than 48 credits remaining must declare their major prior to being admitted. Admissions will send them the [Declaration of Major Form for Former Villanova Students](#). Once the student fills it out, it is approved by CPS advisor, then sent to Assistant Director, Student Support Services for

submission to the Registrar. Once the new major is applied, notification is sent to CPS advisor, the student, and CPS Admissions.

Double Major

Students may choose to double major by declaring a secondary major in another discipline within the College of Professional Studies. A student may not declare a secondary major without first declaring their primary major.

Typically, the first major that a student declares will be treated as their primary major unless they choose to double major in a BIS and BA or BS program. In this situation, the BA or BS major will become the student's primary major, and BIS will be secondary. If a student wishes to keep the BIS major as their primary major, their secondary major must be a BIS as well. Students adhere to the core curriculum for their primary major.

To complete a second major, a student must complete all credits required for that major. With the permission of the Assistant Dean, Academic Programs, students may share a limited number of credits between the primary and secondary major. Credits cannot be shared between the degree core curriculum and the primary major. Declaring a second major may mean that the student will need to complete more credits than the original degree or major requires.

Students who major in General Studies, BIS are not permitted to select a secondary major due to the interdisciplinary nature of this program. Students are welcome to select one or multiple minors.

Multiple majors, regardless of college, will appear on a student's transcript; however, a student will receive one diploma. Students who have completed all the requirements for two or more degrees - i.e., BA and BIS, BA and BS, or BIS and BS - must choose which degree to take - unless they have completed 43 or more additional credits beyond the greater of the two program credit requirements, in which case they may receive two degrees and two diplomas.

There are some circumstances where students may pursue a secondary major in another college at Villanova. They must adhere to all guidelines of the issuing college to complete the program requirements.

Secondary majors open to all Villanova students:

- [Theology](#)

Edits approved by Dean Palus 3/23

Graduate Courses (Undergraduates Taking Graduate Courses)

Matriculated undergraduate students are permitted to take graduate courses according to the Provost's [Policy on Undergraduates Enrolling in Graduate Courses](#). The following additional criteria determines a students' eligibility:

- Senior standing (see [student class levels](#))
- Cumulative GPA of 3.2
- Submit the [Permission to Enter Graduate Courses](#) form

Students who are considering a master's degree are encouraged to take graduate level courses. Up to nine credits may be shared between a student's undergraduate and graduate degrees. Students do not have to be admitted to a combined bachelor/master's program to take graduate level courses. If a non-matriculated post-graduate student wants to take graduate level courses, they will be referred to the College offering the course they wish to take.

Request to Take Course(s) at Another Institution

Once a student has matriculated in a degree program at Villanova University, credit for courses from other universities may only be transferred to Villanova under certain circumstances. Students may request to enroll in courses at another institution by submitting this [linked form](#). Students permitted to take courses at another institution are required to adhere to Villanova's policy on [transfer credits from another institution](#) and College of Professional Studies' [transfer credit policy](#).

Please note the following additional policies concerning transfer courses:

- Approval must be granted prior to enrolling in the course(s); Villanova credit will not be awarded for students who take a course(s) and retroactively seek approval.
- The deadline for submitting this [form](#) is 15 days prior to the start of the course.
- To be eligible for transfer credit from another institution a student must have a cumulative grade point average (GPA) of 2.0 or better and be in good academic standing. If GPA falls below 2.0 once grades are posted, the pre-approval will be voided.
- Grades earned in courses taken at other institutions are not factored into a student's Villanova GPA. A "T" grade will appear on the Villanova transcript and not the actual grade received.
- Courses offered at regionally accredited four-year and two-year institutions can be considered for transfer credit.
- All courses must be taken in the standard letter grade scale; Satisfactory/Unsatisfactory option is not applicable for transfer for Villanova credit.
- There may be additional restrictions on course applicability to core and major requirements depending on a student's degree and major.
- In all cases, the final 30 credits of a student's academic program must be completed at Villanova.
- Final official transcripts must be sent to Villanova College of Professional Studies at the completion of the course to officially award credits towards a student's Villanova degree.

After speaking with an Academic Advisor, students can fill out this [form](#) to request permission to take courses at an external institution on the [Policies & Forms](#) page. When the student fills out the form, it is sent to the associate director of advising who vets the courses, then sent to the director of academic programs for final approval. All parties are notified once it is approved.

Repeating Courses

Unless otherwise stated in the catalog, students are not permitted to repeat courses previously taken at Villanova if they have received a passing

grade without approval from the Assistant Dean, Academic Programs. If approved, the following conditions apply:

- All course attempts will be recorded on the Villanova transcript. Repeating a course does not replace the first attempt.
- All grades will appear on the Villanova transcript and factor into the GPA.
- The repeated course will only count for credit towards program requirements and graduation once.
- No course can be taken a third time; a student may only repeat a course once.

Request to Repeat a Course form on our [Policies & Forms](#) page.

Satisfactory/Unsatisfactory Grading Policy

In courses with standard grading, students may request the Satisfactory (S)/Unsatisfactory (U) grading option, subject to the guidelines indicated by the University which can be found in this Catalog. The University defers to individual colleges for further guidelines on the use of a Satisfactory (S)/Unsatisfactory (U) option. CPS students are subject to the following guidelines:

- The S/U option is available only to those students whose cumulative GPA is 3.0 or better
- Students who have reached sophomore status are eligible to request S/U grading
- A total of five (5) Villanova courses can be graded on an S/U basis during a student's academic career.
- A limit of one (1) course per semester (Fall, Spring or Summer) may be taken on a S/U basis.
- Courses that fulfill major or minor requirements are not approved for S/U grading
- A maximum of two (2) courses in the Core Curriculum (BIS students only) may be graded on S/U basis
- A maximum of three (3) courses in the Free Electives area may be graded on S/U basis
- The Withdrawal (WX) policy and procedures are the same as a standard graded course

- The "S" grade is equivalent to a grade of "C" or better.
- Satisfactory/unsatisfactory grades will be shown on the transcript but will not be reflected in the quality point average.
- Requests for S/U grading are made by completing and submitting the required [form](https://www1.villanova.edu/villanova/enroll/registrar/forms.html) (located on the Registrar's website: <https://www1.villanova.edu/villanova/enroll/registrar/forms.html>) prior to the drop/add deadline.

Transfer Credit Policy

The College of Professional Studies accepts a maximum of 90 total transfer credits toward a bachelor's degree. Eligible transfer credits are considered from one or a combination of the following sources: other regionally accredited institutions, CLEP, Credit by Examination, AP or ACE. Transfer credits are accepted on the basis of course equivalency and must have a course grade of C or higher. Normally, once a student is matriculated at CPS, all credits must be earned at Villanova. Transfer credits have no impact on cumulative grade point average. Transferability is evaluated and determined by the College of Professional Studies in conjunction with the Office of the Registrar as needed.

Procedure:

At application, prospective students must submit all official transcripts. Once student is accepted to CPS, all transcripts are evaluated by the academic advisor and approved by the Associate Director, Advising.

Guidelines:

Credits transferred from another institution of higher learning must be from a regionally accredited institution of higher learning and must have a grade of C or higher.

A maximum of 15 ACE credits are transferrable and must be from either Joint Military Transcript or Professional Education Courses offered by Villanova University.

Transferred ACE credits are accepted only for courses that are non-major requirements .

All transfer credits older than 5 years must be approved by Associate Director, Advising and/or Department Chair.

A maximum of 24 credits can be transferred as LFRE courses

CLEP examinations with a score of 60 or higher are accepted for the following subjects only:

- American Government
- History of US I
- History of US II
- American Literature
- English Literature
- General Biology
- General Chemistry
- Introductory Psychology
- Human Growth & Development
- Calculus with Elementary Functions
- Introductory Sociology
- Western Civilization II

Under specific conditions, students may consider Credit by Examination. AP credits are accepted with an examination score of 4 or higher.

College Transfer Policy

Students enrolled in the College of Professional Studies (CPS) are not permitted to transfer into other colleges at Villanova.

Academic Programs

College of Professional Studies Accounting

Accountancy Certificate

The Certificate in Accountancy is designed to allow individuals who possess a non-business-related bachelor's degrees to acquire expertise in accounting. The program provides an educational opportunity for persons interested in securing careers in accounting in a diversity of environments in industry, business, and government, and the program also meets the

needs of individuals who work in smaller businesses or who are self-employed and need knowledge of accounting practices to make critical business decisions.

The certificate requires 36 accounting and business-related credits which the state of Pennsylvania currently mandates as the minimum requirement to sit for the Certified Public Accountant (CPA) examination.

To be eligible for this certificate, a student must possess a bachelor's degree from an institution accredited by the appropriate regional accrediting association. To complete the certificate in Accountancy, 36 credits are required, 24 of which must be in the accountancy area. Students take six (6) required accounting courses and may choose six (6) electives from the list below. Students are required to have completed all prerequisite courses necessary (indicated in the course description within this catalog) for each course in the certificate program. A maximum of 4 courses, specifically Principles of Financial Accounting, Principles of Managerial Accounting, Corporate Responsibility, and Principles of Finance are permitted for transfer. No other transfer courses are permitted. All remaining upper-level courses in the certificate program must be completed at Villanova.

Certificate: 12 Courses, 36 Credits

Program [Accounting](#)
Degree Type Certificate

Certificate Requirements (12 Courses, 36 Credits)

Required Course (6 Courses, 18 Credits)

Course	Title	Credits
VSF 2004	Financial Accounting	3
VSF 2014	Principles of Managerial Acct3	
ACC 2310	Intermediate Accounting I	3
ACC 2320	Intermediate Accounting II	3
ACC 2360	Federal Income Tax	3
ACC 2430	Auditing	3

Elective Courses (6 Courses, 18 Credits)

Course	Title	Credits
ACC 2340	Accounting Information Systems	3
ACC 2410	Accounting for Real Estate	3
ACC 2420	International Accounting	3
ACC 2450	Advanced Accounting	3
ACC 2470	Cost Accounting	3
ACC 2480	Advanced Taxes	3
ACC 3350	Fraud Examination	3
BL 2185	Law of Contracts & Sales	3
VSU 2007	Corp Respon & Regulation	3
VSU 2009	Principles of Finance	3

College of Professional Studies

Associate of Arts

The Associate of Arts (AA) is an undergraduate degree program designed for students who want a rigorous and diverse general curriculum. Students will take courses in a broad range of disciplines, studying the Humanities, Social Sciences, Math, Natural Sciences, Language, Culture, and Fine Arts. Students can customize their academic plan with electives catered to their professional and personal interests. This post-secondary academic credential positions students for career advancement, and may be a first step towards earning a Bachelor's degree. An Associate's degree is also an appropriate pursuit for students who may be undecided on a major and still exploring their interests and career options.

The AA degree requires students to complete a minimum of 60 credits, 30 of which must be taken at Villanova University. Up to 30 credits can be transferred from an accredited institution at the time of admission.

The degree can be completed in-person on Villanova's campus, online, or as a hybrid program.

Program College of Professional Studies
Degree Type Associate in Arts

Required Courses

Humanities in Augustinian Tradition - 12 credits

Course	Title	Credits
ACS 1000	Ancients	3
ACS 1001	Moderns	3
PHI 1000	Knowledge, Reality, Self	3
THL 1000	Faith, Reason, and Culture	3

Civic and Ethical Leadership - 3 credits

Course	Title	Credits
ETH 2050	The Good Life:Eth & Cont Prob	3

Core Literature and Writing Seminar - 3 credits

Course	Title	Credits
ENG 1975	Core Lit and Writing Seminar	3

History - 3 credits

Course designated as Core History

Course	Title	Credits
	Core History Course	3

Fine Arts - 3 credits

Art History, Studio Art (Drawing, Painting, Calligraphy, Printmaking, Photography), Theater

Course	Title	Credits
	Fine Arts (1 course)	3

Social Science - 3 credits

Economics, Gender & Women's Studies, Geography & the Environment, Global Interdisciplinary Studies, Political Science, Psychology, Public Administration or Sociology

Course	Title	Credits
	Social Science	3

Math - 3 credits

Elementary Statistics or similar course

Course	Title	Credits
STAT 1260	Elementary Statistics	3

Foreign Language - 6 credits

[Language Requirement \(Proficiency\)](#) or
Approved Culture Courses

Natural Science - 6 credits

Two semesters of Mendel Science Experience (MSE) thematically based lecture/laboratory courses designed for non-science majors; or two semesters of lecture/laboratory courses designed for science majors.

Free Electives - 18 credits

see [Free Electives Policy](#)

Core History Course

Elective Credits 3

Choose one of the specially designated core history courses (HIS 1060 through HIS 1250).

Social Science

Elective Credits 3

Choose from Criminology, Geography and the Environment, History, Political Science, Psychology, Public Administration, Sociology, or Social Science.

Associate of Science

The Associate of Science (AS) is an undergraduate degree program designed for students who want a rigorous and diverse general curriculum. In addition to focused coursework in Science and Math, the degree requires courses in the Humanities and Social Sciences and the academic plan can be customized with electives catered to the student's professional and personal interests.

This post-secondary academic credential positions students for career advancement, and may be a first step towards earning a Bachelor's degree. In addition, earning this credential can set students apart from others in roles such as health care assistants, medical assistants, nurse assistants, dental assistants, etc. While these positions have specific training for their fields, an Associate of Science degree can differentiate one

from other applicants. An Associate's degree is also an appropriate pursuit for students who may be undecided on a major and still exploring their interests and career options.

The AS degree requires students to complete a minimum of 60 credits, 30 of which must be taken at Villanova University. Up to 30 credits can be transferred from an accredited institution at the time of admission.

Program [College of Professional Studies](#)
Degree Type Associate in Science

Humanities in Augustinian Tradition - 9 credits

Course	Title	Credits
ACS 1000	Ancients	3
PHI 1000	Knowledge, Reality, Self	3
THL 1000	Faith, Reason, and Culture	3

Civic and Ethical Leadership - 3 credits

Course	Title	Credits
ETH 2050	The Good Life:Eth & Cont	3

Core Literature and Writing Seminar - 3 credits

Course	Title	Credits
ENG 1975	Core Lit and Writing Seminar	3

History - 3 credits

Any History (HIS) Course

Social Science - 3 credits

Course designated as Core Social Science

Math and Science - 27 credits

Students must take 27 credits in Math and Science to include:

- At least one course in MAT/STAT
- Any science course appropriate for a major in a science department

Free Electives - 12 credits

Any courses listed in the course catalog.

Entrepreneurship

Entrepreneurship Major (BIS)

This major is offered in partnership with Villanova's Institute for Innovation and Entrepreneurship. Offered under the Bachelor of Interdisciplinary Studies (BIS) degree, this major prepares students to expand their knowledge, develop their skills, and convert their ideas into tangible products and organizations that can positively impact society and promote the common good. Guided by the values of curiosity, resiliency, collaboration, and creativity, this major is focused on helping students develop a habit of mind oriented towards innovation and entrepreneurship that is applicable to both work and life.

Students will cultivate their ability to accept criticism and experience failure as part of the creative, entrepreneurial process. Additionally, in line with the University's Catholic and Augustinian mission, a focus on ethics, social responsibility, and community as related to entrepreneurial pursuits is woven throughout the curriculum.

Program Entrepreneurship

Degree Type Bachelor of Interdisciplinary Studies

Major Requirements (30 Credits)

Required Core Courses (3 Courses, 9 Credits)

Course	Title	Credits
ENTR 1000	The Basics of Entrepreneurship	3
ENTR 5000	Entrepreneurship Capstone	3
ODM 2050	Innovation & Creative Thinking	3

Major Electives (7 Courses, 21 Credits)

Course	Title	Credits
LDR 2010	Strategic Planning for Leaders	3
LDR 2070	Strategy Driven Talent Mgmt	3
ODM 1100	Foundations of Strategic Mgmt	3
ODM 2000	Essentials of Finance & Acct	3
ODM 2010	Foundations of Marketing	3
ODM 2020	Ethics, Regulations & Soc Resp	3
PA 3000	Overview of Non-Profit Sector	3
ENTR 3400	Entrepreneurship Practicum	3
	Any courses on Innovation, Creativity, and Entrepreneurship (IIE) list	
EGEN 2200	Emerging Tech in Product Innov	3
EGEN 3100	Venture 1: Cust Discvry in PD	3
EGEN 3200	Product & Service Prototyping	3
EGEN 4100	Venture 2: The Lean Startup	3

EGEN 3100, EGEN 3200, EGEN 4100: Venture Development Series | Students must commit to take all three courses in this series on campus, in immediate sequence with their teams (Fall, Spring, Fall).

BIS Core Curriculum Requirements (39 Credits)

[BIS Core Curriculum](#)

Free Electives (51 Credits)

[Free Electives Policy](#)

Degree Credit Summary

- Major Credits: 30 credits
- Core Credits: 39 credits
- Free Elective Credits: 51 credits
- TOTAL REQUIRED DEGREE CREDITS: 120 credits

Any courses on Innovation, Creativity, and Entrepreneurship (IIE) list

Credits: Varies

Entrepreneurship Minor

This minor consists of five (5) courses including three (3) required and two (2) electives chosen from the list below.

Minor: 5 courses, 15 credits

Program [Entrepreneurship](#)
Degree Type Minor

Minor Requirements (5 Courses, 15 Credits)

Required Core Courses (3 Courses, 9 Credits)

Course	Title	Credits
ENTR 1000	The Basics of Entrepreneurship	3
ENTR 5000	Entrepreneurship Capstone	3
ODM 2050	Innovation & Creative Thinking	3

Major Electives (2 Courses, 6 Credits)

Course	Title	Credits
LDR 2010	Strategic Planning for Leaders	3
LDR 2070	Strategy Driven Talent Mgmt	3
ODM 1100	Foundations of Strategic Mgmt	3
ODM 2000	Essentials of Finance & Acct	3
ODM 2010	Foundations of Marketing	3
ODM 2020	Ethics, Regulations & Soc Resp	3
PA 3000	Overview of Non-Profit Sector	3
EGEN 2200	Emerging Tech in Product Innov	3
ENTR 3400	Entrepreneurship Practicum	3
	Any courses on Innovation, Creativity, and Entrepreneurship (IIE) list	
EGEN 3100	Venture 1: Cust Discvry in PD	3
EGEN 3200	Product & Service Prototyping	3
EGEN 4100	Venture 2: The Lean Startup	3

EGEN 3100, EGEN 3200, EGEN 4100: Venture Development Series | Students must commit to take all three courses in this series on campus, in immediate sequence with their teams (Fall, Spring, Fall).

Any courses on Innovation, Creativity, and Entrepreneurship (IIE) list

Credits: Varies

[VU Courses on Innovation, Creativity, or Entrepreneurship](#)

Entrepreneurship Certificate

This program is offered in partnership with [Villanova's Institute for Innovation and Entrepreneurship](#) and prepares students to expand their knowledge, develop their skills, and convert their ideas into tangible products and organizations that can positively impact society and promote the common good. A bachelor's degree is not required for acceptance into the program, but credits fully apply toward CPS degree programs.

Consisting of 3 required courses (9 credits) and 1 elective (3 credits) for a total of 4 courses (12 credits), students have the ability to tailor their elective course to their individual career and/or personal goals.

Program [Entrepreneurship](#)
Degree Type Certificate

Required Courses

The three courses below (9 total credits) are required.

Course	Title	Credits
ENTR 1000	The Basics of Entrepreneurship	3
ENTR 5000	Entrepreneurship Capstone	3
ODM 2050	Innovation & Creative Thinking	3

Electives

One approved Entrepreneurship elective (3 credit) course required.

General Studies

General Studies Major (BIS)

A Bachelor of Interdisciplinary Studies with a major in General Studies is the College’s most flexible degree path. It does not focus on one specific course of study; however, students can design their own major in collaboration with their advisor.

Program [General Studies](#)
Degree Type Bachelor of Interdisciplinary Studies

Major Requirements (33 Credits)

Students must take 33 credits in advanced level courses (2000 level and above) from the Humanities, Sciences and Social Science.

Course	Title	Credits
	Advanced courses, at the 2000 and above level	

BIS Core Curriculum (39 Credits)

[BIS Core Curriculum](#)

Free Electives (48 Credits)

Free Electives [Policy](#)

Degree Credit Summary

- Major Credits: 33 credits
- Core Credits: 39 credits
- Free Elective Credits: 48 credits
- TOTAL REQUIRED CREDITS: 120 credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

Advanced courses, at the 2000 and above level

In humanities, sciences, and social sciences.

Human Resource Management

Human Resource Management Major (BIS)

Available as a major within the Bachelor of Interdisciplinary Studies is a Human Resource Management program of study. Created in partnership between the College of Professional Studies and the [College of Liberal Arts and Sciences Master’s in Human Resource Development program](#), this major provides a framework for the application of human resource principles that can be applied in a broad range of organizational settings.

The curriculum is focused on foundational human resource content areas and competencies and are aligned with the SHRM Curriculum Guidebook. Each course within the major contains at least one of the major HR competencies and/or knowledge areas in the SHRM Body of Competency & Knowledge (SHRM BoCK™). By providing a foundational framework in HR, aligned with SHRM, students will demonstrate their immediately applicable knowledge and skills to employers and increase their marketability upon graduation or even while completing the program. In addition, the coursework in the HRM major will help prepare

students to continue on into the [combined BIS/MS Human Resource Development graduate program](#).

Program [Human Resource Management](#)
Degree Bachelor of Interdisciplinary
Type Studies

Major Requirements (30 Credits)

Course	Title	Credits
HRMG 2000	Introduction to Human Resource	3
HRMG 2010	Employment Law	3
HRMG 2020	Talent Acquisition&Employee Dev	3
HRMG 2030	Managing Compensation&Benefit	3
ODM 1000	Foundation of Organiz Behavior	3
ODM 1100	Foundations of Strategic Mgmt	3
LDR 2060	Global Strategic Leadership	3
LDR 2070	Strategy Driven Talent Mgmt	3
LDR 2080	Leadership Communication	3

Students choose from one of the following courses:

Course	Title	Credits
CPS 3400	Internship Practicum	3
HRMG 5000	HR Management Resrch Capstone	3

BIS Core Curriculum (39 credits)

[BIS Core Curriculum](#)

Free Electives (51 Credits)

[Free Electives Policy](#)

Degree Credit Summary

- Major Credits: 30 credits
- Core Credits: 39 credits
- Free Elective Credits: 51 credits
- TOTAL REQUIRED DEGREE CREDITS: 120 credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

Masters in HRD Course Waivers Eligibility

Students who complete HRM 2000 with a grade of B or better would be eligible for a waiver of the MS in HRD prerequisite course, HRD 8101.

Students who complete HRM 5000 with a grade of B or better would be eligible for a waiver of the MS in HRD prerequisite course HRD 8102.

Note: Requirements of the Masters in Human Resource Development (HRD) program are determined and approved by the [department of HRD](#).

Human Resource Management Certificate

A bachelor's degree is not required for acceptance into the program, but credits fully apply toward CPS degree programs. By providing a foundational framework in HR, aligned with SHRM, Villanova students will demonstrate their immediate applicable knowledge and skills to employers and increase their marketability upon completion of the certificate.

Consisting of 4 required courses (12 credits), the coursework in the Human Resources Management certificate will apply to many different industries and have a wide range of career applications.

Program [Human Resource Management](#)
Degree Type Certificate

Required Courses

The four courses below (12 total credits) are required.

Course	Title	Credits
HRMG 2000	Introduction to Human Resource	3
HRMG 2010	Employment Law	3
HRMG 2020	Talent Acquisition&Employee Dev	3
HRMG 2030	Managing Compensation&Benefit	3

Information Systems and Technology

Information Systems and Technology Major (BIS)

A major in Information Systems and Technology (IST) emphasizes the application of computing technology in today's workplace and focuses on developing a combination of technical and business skills.

Students are challenged through coursework in programming, system design, and data and information management. At the same time, students focus on information systems as it pertains to business management and leadership.

Eligible students may seek to enroll in the [combined BIS/MS in Software Engineering](#).

Program Information Systems and Technology
Degree Bachelor of Interdisciplinary
Type Studies

Major Requirements (30-32 Credits)

Required Major Courses (15-16 Credits)

Course	Title	Credits
ISYT 1000	Intro to Info Sys & Tech	3
ISYT 1100	Data and Information Mgmt	3
ISYT 5000	Information Systems Capstone	3

Choose one of the two following courses:

Course	Title	Credits
CSC 1010	Programming for All	3
CSC 1051	Algorithms & Data Struc I	4

Choose one of the two following courses:

Course	Title	Credits
CSC 1020	Computing and the Web	3
CSC 2053	Platform Based Computing	3

Major Electives (15-16 Credits)

In addition to the approved major electives listed below, students can petition for consideration of a course from another discipline to count towards the IST electives. The student must demonstrate that the course relates to information systems and technology and provide rationale for the substitution. Students should consult with their advisor for more details.

Course	Title	Credits
CPS 3000	Introduction to Project Mgmt	3
CSC 1035	Databases for Many Majors	3
CSC 1052	Algorithms & Data Struc II	4
CSC 2400	Computer Systems I	3
CSC 3010	Overview of Cybersecurity	3
CSC 4500	Artificial Intelligence	3
LDR 2030	Leading with a Digital Mindset	3
ODM 1100	Foundations of Strategic Mgmt	3
ODM 2000	Essentials of Finance & Acct	3
ODM 2040	Strategic Oper & Process Impro	3

Students may also choose one of the two following courses:

(Students in combined bachelors/masters program choose CSC 8490)

Course	Title	Credits
CSC 4480	Principles of Database Systems	3

BIS Core Curriculum (39 Credits)

[BIS Core Curriculum](#)

Free Electives (51 Credits)

[Free Electives Policy](#)

Degree Credit Summary

- Major Credits: 30 credits
- Core Credits: 39 credits
- Free Elective Credits: 51 credits
- TOTAL REQUIRED DEGREE CREDITS: 120 credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

Information Systems and Technology Minor

This minor consists of five (5) courses including four (4) required and one (1) elective chosen from the list below.

Minor: 5 Courses, 15 credits

Program [Information Systems and Technology](#)
Degree Type Minor

Minor Requirements (5 Courses, 15 Credits)

Required Core Courses (4 Courses, 12 Credits)

Course	Title	Credits
ISYT 1000	Intro to Info Sys & Tech	3
ISYT 1100	Data and Information Mgmt	3
CSC 1010	Programming for All	3
CSC 1020	Computing and the Web	3

Minor Elective (1 Course, 3 Credits)

Course	Title	Credits
CSC 1035	Databases for Many Majors	3
ODM 1100	Foundations of Strategic Mgmt	3
ODM 2000	Essentials of Finance & Acct	3
ODM 2040	Strategic Oper & Process Impro	3
LDR 2030	Leading with a Digital Mindset	3
CPS 3000	Introduction to Project Mgmt	3

Information Systems and Technology Certificate

The Certificate in Information Systems and Technology is designed to help students acquire related information systems knowledge and skills through a broad selection of coursework. Students are not required to have a bachelor's degree to enroll in the certificate program; however, must have completed all prerequisite courses necessary (indicated in the course description within this catalog) for any course in the certificate program. To complete the certificate in Information Systems and Technology, students must take the required courses listed in the tables below.

This certificate has two unique tracks. Track A prepares students for the Software Engineering Graduate Program in the College of Liberal Arts and Sciences. This track allows students who do not have a background in computer science an opportunity to complete the necessary prerequisites to be eligible for admission into the Software Engineering Graduate Program. Track B is more generally focused and intended for students who are seeking to attain leadership and management in business as related to information systems and technology.

A bachelor's degree is not required for acceptance into the program, but credits fully apply toward CPS degree programs.

Program [Information Systems and Technology](#)
Degree Type Certificate

Certificate Requirements - Track A (4 Courses, 14 Credits)

Required Courses (4 Courses, 14 Credits)

Course	Title	Credits
CSC 1051	Algorithms & Data Struc I	4
CSC 1052	Algorithms & Data Struc II	4
CSC 1300	Discrete Structures	3
CSC 2400	Computer Systems I	3

Certificate Requirements - Track B (4 Courses, 12 Credits)

Required Courses (4 Courses, 12 Credits)

Course	Title	Credits
CSC 1010	Programming for All	3
CSC 1035	Databases for Many Majors	3
ISYT 1000	Intro to Info Sys & Tech	3
ISYT 1100	Data and Information Mgmt	3

Leadership

Leadership Major (BA or BIS)

A major in Leadership will help students develop and cultivate a comprehensive set of practical skills to apply to their professional endeavors. The curriculum is designed to investigate and analyze moral and ethical challenges to leadership. Students will learn about theories of leadership and identify the factors that contribute to one's ability to develop, articulate, and sustain a vision as a leader. Students will develop personal, professional, and intellectual skills to act with integrity when faced with ethical dilemmas. Issues most relevant to today's corporate leaders such as globalization, technological and social change, and workforce diversity, inclusion, and equity will be studied.

Program [Leadership](#)
Degree Type B.A. or B.I.S.

Major Requirements (30 Credits)

Required Core Courses (2 Courses, 6 Credits)

Course	Title	Credits
LDR 2000	Foundations of Leadership	3
LDR 5000	Leadership Capstone Course	3

Major Electives (8 Courses, 24 Credits)

Course	Title	Credits
LDR 2010	Strategic Planning for Leaders	3
LDR 2020	Leadership & Community	3
LDR 2030	Leading with a Digital Mindset	3
LDR 2040	Ethics & Leadership	3
LDR 2050	History of Leadership	3
LDR 2060	Global Strategic Leadership	3
LDR 2070	Strategy Driven Talent Mgmt	3
LDR 2080	Leadership Communication	3
LDR 3400	Leadership Internship Practicum	3
LDR 5940	Leadership Topics	3
LDR 5950	Special Topics in Leadership	1

LDR 3400, LDR 5940, and LDR 5950 may substitute for up to twelve (12) credits of Leadership major elective courses each (LDR 2010 - 2080). **LDR 3400 and LDR 5940** can be taken up to six (6) credits each. These substitutions are dependent on the course topic and will be made at the discretion of the College advising staff.

LDR 5950 courses can be combined to make fulfill (1) three credit leadership elective course requirement.

BIS Core Curriculum Requirements (39 Credits)

[BIS Core Curriculum](#)

BA Core Curriculum (50 Credits)

[Bachelor of Arts Curriculum](#)

Free Electives (42 - 51 Credits)

[Free Electives Policy](#)

Degree Requirements Summaries

Leadership Major - Bachelor of Interdisciplinary Studies (BIS)

- Major Credits - 30 credits
- BIS Core Curriculum - 39 credits
- Free Electives - 51 credits
- TOTAL Required Credits: 120 credits

Leadership Major - Bachelor of Arts (BA)

- Major Credits - 30 credits
- BA Core Curriculum - 50 credits
- Free Electives - 42 credits
- TOTAL Required Credits: 122 credits

Leadership Minor

The leadership minor has one required course that serves as a pre-requisite for all advanced courses in leadership. Students may choose five (5) courses from the list of electives below.

Program [Leadership](#)

Degree Type Concentration

Minor Requirements (6 Courses, 18 Credits)

Required Core Course (1 Course, 3 Credits)

Course	Title	Credits
LDR 2000	Foundations of Leadership	3

Minor Electives (5 Courses, 15 Credits)

Course	Title	Credits
LDR 2010	Strategic Planning for Leaders	3
LDR 2020	Leadership & Community	3
LDR 2030	Leading with a Digital Mindset	3
LDR 2040	Ethics & Leadership	3
LDR 2050	History of Leadership	3
LDR 2060	Global Strategic Leadership	3
LDR 2070	Strategy Driven Talent Mgmt	3
LDR 2080	Leadership Communication	3
LDR 3400	Leadership Internship Practicum	3
LDR 5940	Leadership Topics	3
LDR 5950	Special Topics in Leadership	1

LDR 3400, LDR 5940, and LDR 5950 may substitute for up to six (6) credits of Leadership major elective courses. Substitutions are dependent on the course topic and will be made at the discretion of the College advising staff.

Leadership Certificate

The Certificate in Leadership is designed to help individuals acquire related knowledge and skills through a broad selection of coursework. It is especially useful for those students who have already completed a bachelor's degree in business or liberal arts but now wish to acquire a more formal grounding in leadership practices; however, one does not have to hold a bachelor's degree to complete the certificate. To complete this certificate, students must take two (2) required courses and choose two (2) electives.

Program [Leadership](#)

Degree Type Certificate

Certificate Requirements (4 Courses, 12 Credits)

Required Courses (2 Courses, 6 Credits)

Course	Title	Credits
LDR 2000	Foundations of Leadership	3
LDR 2010	Strategic Planning for Leaders	3

Elective Courses (2 Courses, 6 Credits)

Course	Title	Credits
LDR 2020	Leadership & Community	3
LDR 2030	Leading with a Digital Mindset	3
LDR 2040	Ethics & Leadership	3
LDR 2050	History of Leadership	3
LDR 2060	Global Strategic Leadership	3
LDR 2070	Strategy Driven Talent Mgmt	3
LDR 2080	Leadership Communication	3

Military Science (Army ROTC)

ROTC Leadership Minor

The Leadership minor is available to Army Reserve Officer Training Corps (ROTC) students who are pursuing undergraduate majors in the College of Liberal Arts and Sciences and College of Engineering. To declare the minor, students must have a cumulative GPA of 3.0. Eligible students must apply for the Leadership minor through the CPS Policies & Forms website. Once approved, students must meet with their designated advisor in CLAS or COE before registering for courses each semester. Courses are generally taught online and in an accelerated format and CLAS/COE Students are only permitted to take one (1) Fast Forward course in each semester. To graduate with a minor in leadership, ROTC students must take three (9 credits) advanced leadership courses from the list below. ROTC students declaring the Leadership minor do not have to take the LDR 2000 pre-requisite course to take advanced leadership courses. The student is responsible for ensuring that all minor requirements are met prior to graduation.

Due to College restriction on courses, students should contact cpsadvisor@villanova.edu for assistance with registration in these courses.

Program [Military Science \(Army ROTC\)](#)
Degree Type Minor

Minor Requirements (6 Courses, 18 Credits)

Required Core Courses (3 Courses, 9 Credits)

Course	Title	Credits
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Minor Electives (3 Courses, 9 Credits)

Course	Title	Credits
LDR 2010	Strategic Planning for Leaders	3
LDR 2020	Leadership & Community	3
LDR 2030	Leading with a Digital Mindset	3
LDR 2040	Ethics & Leadership	3
LDR 2050	History of Leadership	3
LDR 2060	Global Strategic Leadership	3
LDR 2080	Leadership Communication	3

Organizational Development Management

Organizational Development & Management Major (BIS)

The Organizational Development and Management (ODM) major prepares students to be strategic, ethical, effective, socially responsible, and innovative leaders in corporations and communities. This professionally oriented curriculum is designed to lay the foundation, equip students with the tools and knowledge to propel them to the next level of their career. Students will identify and analyze the impacts of individual and group behavior on organizational processes and outcomes, understand and appreciate the structure of organizations, and the local and global contexts in which they operate. Students will develop analytical skills and collaborative practices related to strategic organizational management of diverse individuals and teams as well as practice and analyze decision-making processes required in complex business organizations.

Program [Organizational Development Management](#)

Degree Type Bachelor of Interdisciplinary Studies

Major Requirements (30 Credits)

Required Core Credits (18 credits)

Course	Title	Credits
ODM 1000	Foundation of Organiz Behavior	3
ODM 1100	Foundations of Strategic Mgmt	3
ODM 2000	Essentials of Finance & Acct	3
ODM 2010	Foundations of Marketing	3
ODM 2020	Ethics, Regulations & Soc Resp	3
ODM 5000	Organiz Devlp & Mgmt Capstone	3

Major Electives (12 Credits)

Major Electives (12 Credits)

Choose from the courses below or any course with the ODM attribute.

Course	Title	Credits
ODM 2030	Organizational Decision Making	3
ODM 2040	Strategic Oper & Process Impro	3
ODM 2050	Innovation & Creative Thinking	3
ODM 3010	Sports Management & Administra	3
CPS 3000	Introduction to Project Mgmt	3
ENTR 1000	The Basics of Entrepreneurship	3
ISYT 1000	Intro to Info Sys & Tech	3
ISYT 1100	Data and Information Mgmt	3
LDR 2060	Global Strategic Leadership	3
LDR 2070	Strategy Driven Talent Mgmt	3
LDR 2080	Leadership Communication	3
LDR 5940	Leadership Topics	3
LDR 5950	Special Topics in Leadership	1
PA 1050	Public Administration	3
PA 3000	Overview of Non-Profit Sector	3
PA 4100	Public Budgeting	3
PA 6000	Vocation of Public Service	3
CPS 3400	Internship Practicum	3
CPS 4400	Internship Practicum	6
CPS 5400	Internship Practicum Part 2	3

Internship Option: Choose CPS 3400 Internship Practicum (3 credits); CPS 5400/3400 Internship Practicum II (3 credits); or CPS 5400/4400 Internship Practicum (6 Credits)

LDR 5940 (3 credits) and LDR 5940 (1 credit) may be repeated for a maximum of twelve (12) credits applied to the major.

LDR 5950 (1 credit) courses can be combined to fulfill one (1) three credit course requirement.

BIS Core Curriculum (39 Credits)

[BIS Core Curriculum](#)

Free Electives (51 Credits)

[Free Electives Policy](#)

Degree Credit Summary

- Major Credits: 30 credits
- Core Credits: 39 credits
- Free Elective Credits: 51 credits
- TOTAL REQUIRED DEGREE CREDITS: 120 credits

Organizational Development & Management Minor

Program [Organizational Development Management](#)

Degree Type Minor

Minor Requirements (6 Courses, 18 Credits)

Required Core Courses (4 Courses, 12 Credits)

Course	Title	Credits
ODM 1000	Foundation of Organiz Behavior	3
ODM 1100	Foundations of Strategic Mgmt	3
ODM 2000	Essentials of Finance & Acct	3
ODM 2010	Foundations of Marketing	3

Minor Electives (2 Courses, 6 Credits)

Choose two courses from the below options.

Course	Title	Credits
ODM 2020	Ethics, Regulations & Soc Resp	3
ODM 2030	Organizational Decision Making	3
ODM 2040	Strategic Oper & Process Impro	3
ODM 2050	Innovation & Creative Thinking	3
LDR 2070	Strategy Driven Talent Mgmt	3

Organizational Development & Management Certificate

This program prepares students to identify and analyze the impacts of individual and group behavior on organizational processes and outcomes, develop analytical skills and collaborative practices related to strategic organizational management of diverse individuals and teams, practice and analyze decision-making processes required in complex business organizations, and learn about the tools, techniques, and methodologies of process improvement.

The certificate consists of 4 required courses (12 credits)

A bachelor's degree is not required for acceptance into the program, but credits fully apply toward CPS degree programs.

Program [Organizational Development Management](#)
Degree Type Certificate

Required Courses

The four courses below (12 total credits) are required.

Course	Title	Credits
ODM 1000	Foundation of Organiz Behavior	3
ODM 1100	Foundations of Strategic Mgmt	3
ODM 2000	Essentials of Finance & Acct	3
ODM 2010	Foundations of Marketing	3

Pre-Health Professions

Pre-Health Professions Sciences Certificate

This post-baccalaureate certificate program provides a fundamental education in the sciences to students preparing to enroll in a health-related professional school or pursue a career in the health professions.

To be eligible for this certificate, a student must possess a bachelor's degree from an institution accredited by the appropriate regional accrediting association. Students are strongly encouraged to check the admissions requirements for the professional schools and programs of their choice. Students will work in collaboration with their assigned CPS advisor and an advisor in the Health Professions Advising Program to align courses with their interests and needs. A total of 15 credits may be transferred in at the time of admission.

Program [Pre-Health Professions](#)
Degree Type Certificate

Certificate Requirements (30 Credits)

Course	Title	Credits
BIO 1205	Human Anatomy & Physiology I	4
BIO 1206	Human Anatomy & Physiology II	4
BIO 2105	General Biology I	4
BIO 2106	General Biology II	4
BIO 3055	Human Physiology	4
BIO 3105	Experimental Design & Analysis	4
BIO 3351	Genetics	4
BIO 3455	Histology	4
BIO 3595	General Microbiology	4
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
CHM 2211	Organic Chemistry I	3
CHM 2201	Organic Chemistry Lab I	1
CHM 2212	Organic Chemistry II	3
CHM 2202	Organic Chemistry Lab II	1
	CHM 4611 or CHM 4621	3
PHY 1100	General Physics I	3
PHY 1101	General Physics I Lab	1
PHY 1102	General Physics II	3
PHY 1103	General Physics II Lab	1
CLA 2021	Language of Science & Medicine	3
PSY 1000	General Psychology	3
PSY 3200	Human Development	3
PSY 3700	Psychopathology	3
STAT 1313	Statistics for Life Sciences	3
MAT 1500	Calculus I	4
MAT 1505	Calculus II	4
STAT 1230	Intro Statistics I	3
THL 4200	Ethics of Life and Death	3

CHM 4611 or CHM 4621

Elective Credits 3

Choose one.

Course	Title	Credits
CHM 4611	Survey of Biochemistry	3
CHM 4621	Biochemistry I: Structure	3

Public Administration

Public Service & Administration Major (BIS)

Villanova's Public Service and Administration (PSA) major prepares students for career advancement in government and in nonprofit organizations. In the Public Service and Administration (PSA) major, students are introduced to ethical, philosophic, theological, historical, social, and political perspectives that influence the leadership and management of government and nonprofit organizations.

This major is offered under the Bachelor of Interdisciplinary Studies (BIS) in partnership with the [Department of Public Administration](#) and is available to CPS students fully online and as a hybrid program. Students gain first-hand knowledge of effective practices in the government and nonprofit sectors as well as experience in networking and professional development.

Courses in the major cover topics such as public budgeting, strategic planning, leadership, public policy, ethics, and organizational development. They are taught by an accomplished faculty of scholars and practitioners - including, for example, managers at the federal, state, and local levels, and executives of non-profit organizations.

Eligible students may seek to enroll in the combined [BIS/MPA or BA/MPA program](#).

Note: The Public Service and Administration major is also offered under the Bachelor of Arts degree in partnership with the College of Liberal Arts and Sciences. Students should refer to the specific requirements of that degree/major [here](#).

Program [Public Administration](#)

Degree Type Bachelor of Interdisciplinary Studies

Major Requirements (30 Credits)

Required Major Courses (7 Courses, 21 Credits)

Course	Title	Credits
PA 1050	Public Administration	3
PA 2000	Public Policy	3
PA 4100	Public Budgeting	3
PA 4200	Organizational Development	3
PA 4500	Research Methods in Public Svc	3
PA 6000	Vocation of Public Service	3
PA 6100	PSA Internship	3
Course	Title	Credits

Major Electives (3 Courses, 9 Credits)

Students can choose three courses from the below options or from the [departmental list](#).

Course	Title	Credits
LDR 2010	Strategic Planning for Leaders	3
LDR 2020	Leadership & Community	3
LDR 2040	Ethics & Leadership	3

BIS Core Curriculum (39 Credits)

[BIS Core Curriculum](#)

Free Electives (51 Credits)

[Free Electives Policy](#)

Degree Credit Summary

- Major Credits: 30 credits
- Core Credits: 39 credits
- Free Elective Credits: 51 credits
- TOTAL REQUIRED DEGREE CREDITS: 120 credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.

Public Service and Administration Certificate

A bachelor's degree is not required for acceptance into the program, but credits fully apply toward CPS degree programs. In the Public Service and Administration (PSA) certificate, students are introduced to ethical, philosophic, theological, historical, social, and political perspectives that influence the leadership and management of government and nonprofit organizations.

Consisting of 4 required courses (12 credits), the coursework in the Public Service and Administration Certificate will apply to many different industries and have a wide range of career applications.

Program [Public Administration](#)
Degree Type Certificate

Required Courses

The four courses below (12 total credits) are required.

Course	Title	Credits
PA 1050	Public Administration	3
PA 2000	Public Policy	3
PA 4100	Public Budgeting	3
PA 4200	Organizational Development	3

Courses

Accounting

ACC 2021: Intro to Forensics for ACC

This course is designed as an introduction to forensics as part of the framework for the new business professional. The course objective is to provide an understanding of how a forensics professional can successfully recognize and navigate today's business environment.

Credits 1.0

Prerequisites

VSU 2004

Prerequisite Courses

VSU 2004

Last Offered

Fall 2025

ACC 2022: Intro to Deals Advisory for ACC

This course is an introduction to business transactions for accountants including a high-level overview of public offerings, acquisitions, equity financing, carveouts and divestitures.

Credits 1.0

Prerequisites

VSU 2004

Prerequisite Courses

VSU 2004

Last Offered

Fall 2025

ACC 2023: Intro to Digital&Cyber for ACC

This course is designed as an introduction to digital and cybersecurity as part of the accounting framework. The course provides an understanding of how today's VSU student with a strong technology background can navigate today's complex business environment.

Credits 1.0

Prerequisites

VSU 2004

Prerequisite Courses

VSU 2004

Last Offered

Fall 2025

ACC 2310: Intermediate Accounting I

Intensive study and application of GAAP for asset valuation, income measurement, and financial statement presentation for business organizations, and the processes through which these principles evolve. Each topic under GAAP compared to IFRS counterpart. Coverage of topics essential to preparing, reading, understanding, interpreting and using financial statements. Extensive reliance on case method.

Credits 3.0

Prerequisites

VSU 2020 :Y :D- and VSU 2004 :D- and (VSU 2009 :Y :D- or VSU 2010 :D- or VSU 2030 :D- and VSU 2040 :D-)

Prerequisite Courses

VSU 2020

VSU 2004

VSU 2009

VSU 2010

VSU 2030

VSU 2040

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ACC 2320: Intermediate Accounting II

Continues the intensive study and application of GAAP for asset valuation, income measurement, and financial statement presentation begun in ACC 2310. Selected accounting and consulting issues. Correction of financial statements, income taxes, pensions, segment reporting, cash-flow disclosures, debt issuance and amortization, leases, and investments. As with ACC 2310, each topic under GAAP compared to IFRS counterpart.

Credits 3.0

Prerequisites

ACC 2310 :D-

Prerequisite Courses

ACC 2310

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ACC 2340: Accounting Information Systems

This course offers both a conceptual overview and hands-on experience with a variety of AIS related material. Topics covered include: Semantic modeling and event driven accounting information systems (AIS); development, documentation, control and audit of AIS, with particular reference to the COBIT framework; an overview of XBRL and its role in financial reporting; the use of database management software and accounting software in developing modern AIS.

Credits 3.0

Prerequisites

ACC 2310 :D-

Prerequisite Courses

ACC 2310

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

ACC 2360: Federal Income Tax

Explore tax-policy issues and develop a basic understanding of federal income tax laws, tax planning, and the impact of taxes on business decisions. Restricted to Accounting majors and minors and Business Law minors. Must be junior or senior standing.

Credits 3.0

Prerequisites

VSU 2004 and ACC 2310 :Y and VSU 2009 :Y and VSU 2014 :Y

Prerequisite Courses

VSU 2004

ACC 2310

VSU 2009

VSU 2014

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ACC 2410: Accounting for Real Estate

Accounting for both private and public real estate entities, acquisitions, development, operations, dispositions, impairments and fair value implications of real estate transactions and ownership.

Credits 3.0

Prerequisites

ACC 2310 :D-

Prerequisite Courses

ACC 2310

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ACC 2420: International Accounting

Examines a variety of international accounting issues, including international financial accounting standards; consolidation of international operations; auditing standards and procedures; managerial accounting systems for planning, control, and performance measurement; political, legal, and cultural influences on accounting and transfer pricing. This course can be applied toward the international course requirement and in VSB's Master of Accountancy Program.

Credits 3.0

Prerequisites

ACC 2310

Prerequisite Courses

ACC 2310

Last Offered

Summer 2025, Summer 2024,
Fall 2022, Fall 2021

ACC 2430: Auditing

Auditing standards employed in verification of and reporting on financial statements, evaluation of controls, statistical sampling, substantive testing, legal liability and professional responsibilities, and professional standards of ethics. Includes written and oral group case assignments and application of computer technology. Restricted to Accounting majors and minors.

Credits 3.0

Prerequisites

ACC 2310 :D- and ACC 2320 :Y :D-

Prerequisite Courses

ACC 2310

ACC 2320

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ACC 2450: Advanced Accounting

Theories and techniques used for specialized accounting problems, with emphasis on business combinations, consolidations, multinational corporations, not-for-profit entities partnerships, and issues related to solvency and liquidation and financial fraud. Restricted to Accounting majors and minors.

Credits 3.0

Prerequisites

ACC 2310 and ACC 2320 :Y

Prerequisite Courses

ACC 2310

ACC 2320

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ACC 2470: Cost Accounting

Introduction to modern cost accounting systems and the accounting information needs of managers, including: costing approaches (job-order process, standard, and absorption); cost behavior analysis; differential costs for decision-making; activity-based costing (ABC) and activity-based management (ABM); performance evaluation; and, issues related to quality. Group work and case analysis (both oral and written) required. Restricted to Accounting majors and minors with Senior standing.

Credits 3.0

Prerequisites

ACC 2310 :D- and (VSB 3006 :D- or VSB 2014 :D-)

Prerequisite Courses

ACC 2310

VSB 3006

VSB 2014

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ACC 2480: Advanced Taxes

Advanced federal income tax topics and issues pertaining to individuals, partnerships, corporations, and estates and trusts. Emphasis on tax planning and tax research.

Credits 3.0

Prerequisites

ACC 2310 :D- and ACC 2360 :D-

Prerequisite Courses

ACC 2310

ACC 2360

Last Offered

Spring 2024, Spring 2023,
Spring 2022, Spring 2021

ACC 3350: Fraud Examination

The focus of the course is on the pervasiveness and causes of fraud, methods for investigating fraud within organizations, and what organizations can do to prevent and detect fraud. The successful completion of the course provides a basic understanding of various types of fraud, the fraud triangle, fraud prevention and internal control, fraud detection and investigation techniques, financial statement fraud, fraud against organizations, bankruptcy and divorce fraud, fraud in e-commerce, and the legal elements and resolution of fraud.

Credits 3.0

Prerequisites

ACC 2430 :Y :D-

Prerequisite Courses

ACC 2430

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ACC 3430: Accounting Internship

Employment with approved accounting firms and business organizations; varied work experience with appropriate training, instruction, and supervision. Paper required. Restricted to Accounting majors and minors with junior or senior standing, a minimum GPA of 2.5, and approval of the Accounting Internship Director. Satisfactory/Unsatisfactory only.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

ACC 3460: Accounting Internship-Spring

Full-time employment with approved accounting firm or other business organizations; varied work experience with appropriate training, instruction, and supervision. Does not fulfill major requirement; satisfies one free elective only. Permission of Accounting Department.

Credits 6.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ACC 3470: Accounting Co-Op

Full-time employment with an approved firm in the area of Accounting where experience is gained through appropriate training, instruction, and supervision. Course does not fulfill the requirements of the major. Prerequisite: Accounting major with junior status; minimum GPA requirements will vary. Approval of Accounting Department Chair required.

Credits 6.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ACC 3500: Ind Study:Accounting

Credits 3.0

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

Advising

ADV 1000: Advising:Explore & Experience

Take control of your education by learning how to harness opportunities that will maximize personal and professional success as you begin your journey. Understand how to make educational choices, maintain health and wellness, exhibit professionalism, and explore possible professional directions.

Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

Aerospace Studies (Air Force ROTC)

AER 1011: Foundation of US Air Force I

The military as a profession, including: civilian control of U.S. Armed Forces, functions and organization of the U.S. Air Force, organization and operations of U.S. strategic offensive forces.

Credits 1.0

Last Offered

Spring 2025, Fall 2024, Fall 2023, Fall 2022

AER 1012: Leadership Lab

Credits 0.0

Last Offered

Fall 2023, Fall 2022, Fall 2021,
Fall 2020

AER 1021: Foundation of US Air Force II

The U.S. general purpose and defensive forces including: Mission and organization of the major U.S. Air Force Commands and separate operating agencies, major functions and conduct of joint service military operations. Air defense, detection systems, close air support, and air superiority.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

AER 1022: Leadership Lab

Credits 0.0

Last Offered

Spring 2024, Spring 2023,
Spring 2022, Spring 2021

AER 1031: Evol of USAF Air Space Power I

Aerospace power from balloons and dirigibles through the employment of U.S. air power in World War II. The military theory of aerospace power employment.

Credits 1.0

Last Offered

Spring 2025, Fall 2024, Fall 2023, Fall 2022

AER 1041: Evol of USAF Air Space Power II

Employment of U.S. air power in the Korean Conflict, relief missions and civic action programs in the later 1960s, and the war in Southeast Asia. The military theory of aerospace force employment.

Credits 1.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2019

AER 2011: Air Force Leadership Studies I

Managerial theory, concepts and techniques of decision-making, and the basic functions of management with particular emphasis on applications for Air Force officers.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022,
Fall 2019

AER 2021: Air Force Leadership Studies II

An interdisciplinary approach to leadership which includes study of human behavior and relationships, and motivation.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

AER 2031: National Security Affairs I

The Armed forces as an integral and inseparable element of society. Emphasis on the overall national security process and the factors which comprise it. The impact of a nation's military, economic psychological, and technical components on national security policy. Major geopolitical hotspots and the origin of arms races.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Fall 2023, Spring 2022

AER 2041: National Security Affairs II

Civilian control of the military, conflict control, military professionalism, and military justice. Emphasis on the reciprocal responsibilities of civilians and the military in a democratic society.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2021, Fall 2020

Arts & Sciences Professional Development

ASPD 2000: Prof Dev for Arts & Sciences

Discovering your professional passion, path, and purpose. Designed for students to acquire and demonstrate professional and career readiness skills, which greatly enhance student employability in the workplace.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASPD 2001: Intro. to Professional Writing

Learn the hallmarks of effective professional writing: How to target an audience while writing clearly, concisely, and persuasively. Gain valuable professional writing experience directly transferable to writing in internships and professional positions.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ASPD 2002: The Legal Profession

Investigate areas of law and potential legal paths as you learn what it means to "think like a lawyer." Learn how to maneuver successfully through the application process and how to transition well to the challenges of law school."

Credits 1.0

Last Offered

Fall 2022, Spring 2021, Spring 2020, Spring 2019

ASPD 2003: Professional Communication

This course provides a foundation for leadership studies and professional speaking. You will enhance your professional communication by learning various perspectives that will deepen your understanding of leadership and enable you to succeed in a diverse, ever-changing workplace.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASPD 2004: Social Networking

Making connections and staying connected has never been easier with sites like Facebook, Twitter, and LinkedIn. Learn how to harness the power of social media for professional gain and become a savvy social networker.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2023, Fall 2021

ASPD 2005: Networking for Success

Learn the importance and relevance of networking for your professional success. This course is designed for students who want to identify, understand, and develop personal strengths and relationships to explore and expand professional opportunities.

Credits 1.0

Last Offered

Fall 2023, Fall 2022, Spring 2022, Fall 2021

ASPD 2009: Creativity and Innovation

Collaborate on team-based projects designed to foster an understanding of real-world business problems that require creative and innovative solutions. Open to All Undergraduate Students. Weekend commitment is a requirement. Class will meet for three prep sessions prior to weekend event.

Credits 1.0

Last Offered

Fall 2023, Spring 2022, Spring 2021, Summer 2020

ASPD 2011: Personal Finance

Personal finance is an important life skill, and after graduation, you will be responsible for your own money. Explore topics such as budgeting; living on your own; saving for that dream car, house, and vacation; responsible use of credit cards; and investing for retirement. You'll identify your values and differentiate needs from wants, and learn how to set short, medium and long-term financial goals.

Credits 1.0

Last Offered

Spring 2023, Fall 2022, Spring 2022, Fall 2021

ASPD 2012: Professional Skills- Strengths

Professional Skills and Strengths teaches students how to understand, communicate, and leverage their skills and strengths when applying for internships and jobs.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ASPD 2013: Introduction to Data Analysis

Introduction to Data Analysis teaches students how to interpret, create, and analyze data utilizing spreadsheets and other technological tools.

Credits 1.0

Last Offered

Spring 2023, Spring 2022, Spring 2021

ASPD 2014: Public Policy Paths

Public Policy Paths teaches students about careers and professional opportunities available in national and state government, and in non-profit organizations.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ASPD 2015: Management Consulting

Students will learn about the management consultancy field and how to best pursue opportunities while engaging with alumni professionals who've built careers in the industry.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ASPD 2018: A Life Well Lived

Discuss and practice the core concepts of a life well lived, as studied by the Greater Good Science Center at UC Berkeley, around the core concepts of generosity, gratitude, awe, positive neuroscience, and future mindedness.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ASPD 2020: Building a Resilience Resume

Failure is normal and healthy - and it can be transformative. Learn from the failure resumes of others, and walk away with your own failure resume and ability to articulate how you have demonstrated growth, change and resilience.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

ASPD 2021: Adulting 101

From saving for retirement and renting that first apartment to negotiating your starting salary and sorting out employer provided health benefit, Adulting 101 prepares students for life after graduation and beyond.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ASPD 2022: Prep for Careers in Fin Serv

Learn how to successfully identify, apply for, and interview for internships and entry-level positions in the financial services industry, and build relationships with alumni who are industry experts.

Credits 1.0

Last Offered

Spring 2021, Spring 2020

ASPD 2023: Navigating Roadblocks

In Navigating Roadblocks, students will have the opportunity to discuss and consider effective approaches to managing stress, setting realistic goals, and persisting after failure or setbacks.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASPD 2024: Understanding Financial Rpts

This course will emphasize the creation and analysis of the basic financial accounting statements - the income statement, balance sheet, and cash flow statement - as well as their interpretation and how they are used in making financial and investing decisions.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Fall 2022

ASPD 2025: Careers in Sustainability

Careers in Sustainability examines professional paths related to "green jobs" and the field of environmental sustainability

Credits 1.0

Last Offered

Spring 2021

ASPD 2026: Intergrating Study Abroad Exp

Students returning from studying abroad will develop a framework in which they can reflect upon and discuss their international experiences, and foster their intercultural competencies, while integrating their experiences into their academic and career goals.

Credits 1.0

Last Offered

Fall 2024, Fall 2023

ASPD 2027: Understanding Fincl Rpt II

This course is a continuation of Understanding Financial Reporting and will emphasize the creation and analysis of the basic financial accounting statements: the income statement, balance sheet, and cash flow statement, as well as their interpretation and how they are used in making financial and investing decisions.

Credits 1.0

Prerequisites

ASPD 2024

Prerequisite Courses

ASPD 2024

Last Offered

Fall 2021, Spring 2021, Fall 2020

ASPD 2028: Diversity & Incl the Workplace

Learn why respectful language and vocabulary are essential to approaching uncomfortable yet important conversations about diversity, equity, and inclusion in the workplace. Develop strategies for breaking down barriers, fostering greater understanding, and creating and sustaining equitable, open, and progressive workplaces.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASPD 2029: Applying to Law School

Understand the process of applying to law school, including selecting target schools, writing a personal statement, requesting letters of recommendation, obtaining official transcripts, navigating the Law School Admission Council's Website, and more.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASPD 2030: Introduction to Law School

Review topics, cases, and statutes typically studied during the first year (1L) of law school. Develop strong law school study strategies by reading and briefing cases.

Credits 1.0

ASPD 2031: LSAT Prep

Develop greater understanding and confidence related to preparing for and taking the LSAT, which is the standardized Law School Admission Test. Examine and prepare for all parts of the LSAT, including Logical Reasoning, Analytical Reasoning, Reading Comprehension, and Writing.

Credits 1.0

ASPD 2032: The Intersection of Work & Pol

This course aims to prepare students for a job market and professional environment in which political concerns and controversies are appearing in new and sometimes problematic ways. The course is based around specific questions and problems, and addresses them through specific cases.

Credits 1.0

ASPD 2033: Rewrite Your Story

This course is designed for the student that is transitioning back from time off from academics and/or interested in developing academic and professional skills to improve performance. We will start with reframing past experiences as growth moments and opportunities for learning.

Credits 1.0

Last Offered

Fall 2023, Spring 2023, Fall 2022, Fall 2021

ASPD 2034: Career Pathways

Discover, explore, and prepare to enter a variety of different industries and careers.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023

ASPD 2035: Leadership in Biology

Designed for Biology students who have completed BIO 2105/6 and will facilitate weekly sessions of fellow students enrolled in General Biology to reinforce concepts learned in lecture. Students in this course will be trained in practices to enhance leadership skills, such as communication, pedagogy, reading primary literature, and the dialogical process.

REGISTRATION BY DIRECTOR ONLY

Credits 1.0

Last Offered

Spring 2022

ASPD 2036: Global & Post Grad Opport&Fell

Learn how to navigate application processes for summer and post-graduate opportunities and fellowships, which include both domestic and international experiences. Students will focus on the Fulbright Program and other bridge year programs, and also will learn about opportunities for sophomore and juniors. Students will explore programs, craft application materials, and identify and articulate goals and future plans.

Credits 1.0

Last Offered

Spring 2023

ASPD 2100: Preparing for Health Careers

Explore the core competencies sought by health professions schools and their application processes.

Credits 1.0

Last Offered

Spring 2025, Fall 2019, Fall 2018, Fall 2017

ASPD 2101: The Road Less Traveled

This course is designed to expand students' awareness of the array of health professions. Guest speakers from fields students choose less frequently will come to class and introduce their professions. Students will have the opportunity to expand their perspective in search of their "fit."

Credits 1.0

Last Offered

Spring 2024, Fall 2023, Spring 2023, Fall 2022

ASPD 2200: Applied Professional Devlop

Students will enhance their professional development and career knowledge through this overview of important and relevant topics related to investigating career paths and applying to internships and jobs. The one-credit Independent Study offering is designed to give students greater flexibility in course scheduling. Restricted to CLAS students with permission of Director of Professional Development.

Credits 1.0

Prerequisites

ASPD 1000

Prerequisite Courses

ASPD 1000

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASPD 3000: Topics in Prof. Development

Strategies and techniques to enhance students' professional development. Students will reflect on and write about their internship and work experiences to challenge their thinking about the workplace, leadership, and efficiency on the job.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Astrophysics and Planetary Science

AST 1076: How Old is the Universe?

Explores one of the most basic questions in modern astronomy. Evidence from the Earth, Moon, and meteorites will be examined, along with that from stars, white dwarfs, and the Universe itself. Includes an overview of the formation and evolution of the Universe.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

AST 2000: Introduction to VU Astronomy

An introduction to Villanova University's Astronomy and Astrophysics major. Topics will include previews of the curriculum, research opportunities for undergraduates in astronomy, and career paths within and outside the field of astronomy. Students will interact with all departmental faculty members.

Credits 1.0

Last Offered

Fall 2025

AST 2120: Sun and Stars

A technical study of the Sun and other stars; their internal constitutions and atmospheres, life cycles and evolutionary processes, memberships in groups, the radiations they produce, and the manner in which astronomers quantify their characteristics.

Credits 3.0

Prerequisites

MAT 1310 or MAT 1320 or MAT 1330 or MAT 1400 or MAT 1500

Prerequisite Courses

MAT 1310

MAT 1320

MAT 1330

MAT 1400

MAT 1500

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

AST 2121: Solar System Astronomy

The science of the solar system. Early ideas of the nature of the solar system; the dynamics and compositions of the planets; atmospheric evolution and maintenance. How comets and meteorites reveal the structures of the primitive solar system.

Credits 3.0

Prerequisites

MAT 1310 or MAT 1320 or MAT 1330 or MAT 1400 or MAT 1500

Prerequisite Courses

MAT 1310

MAT 1320

MAT 1330

MAT 1400

MAT 1500

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

AST 2122: Understanding Our Universe

A study of the formation and evolution of the Universe. Emphasis on the observational evidence leading to the Big Bang Theory, inflation, dark matter, and dark energy. Current model of the universe described and evidence for the "multiverse" discussed.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

AST 2123: Astrodynamics: Kepler & Beyond

Intermediate Newtonian dynamics: description of motion under forces as functions of position, time, velocity. Motion in one and three dimensions, the Kepler problem, gravitation, and the restricted three-body problem.

Credits 3.0

Prerequisites

MAT 1310 or MAT 1320 or MAT 1330 or MAT 1400 or MAT 1500

Prerequisite Courses

MAT 1310

MAT 1320

MAT 1330

MAT 1400

MAT 1500

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

AST 2133: Observational Lab I

Astronomical instruments, methods of observing, reduction of observations, and discussion of astronomical data. Observations include CCD imaging, spectroscopy, and photoelectric photometry using the observatory reflector and Schmidt telescopes. Two hours per week in the laboratory in addition to the observing time necessary to complete the assigned projects. Corequisite or prerequisite: AST 2120.

Credits 2.0

Prerequisites

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

AST 2134: Observational Lab II

Continuation of AST 2122.

Credits 2.0

Prerequisites

AST 2133 :D-

Prerequisite Courses

AST 2133

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

AST 3141: Galactic Astronomy

The nature, distribution, and motions of the constituents of the Galaxy; the major star system in which our Sun is located the stars, the gas and dust, star clusters, etc.; stellar distance determination, distribution of stars and gas, stellar kinematics, galactic dynamics, galactic radio emission, cosmic rays, and evolution of galaxies.

Prerequisite: one year of mathematics or physics and either AST 2120 or AST 2122.

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Fall 2020,
Fall 2018

AST 3142: Intro to Astrophysics

Theories of stellar atmospheres, line-broadening and formation, radiative transfer, theoretical spectra, and the theory of stellar interiors are covered. Fundamental stellar timescales, thermonuclear reactions, evolutionary models, stellar pulsations, novae and supernovae.

Credits 3.0

Prerequisites

AST 2120 :D- or AST 2122 :D- and PHY 2410 :D-

Prerequisite Courses

AST 2120

AST 2122

PHY 2410

Last Offered

Spring 2025, Spring 2023, Spring 2021, Spring 2019

AST 3143: Astrobiology, Planets, & Life

Are we alone? Does life exist elsewhere in the Universe? Focus on the origin of life on Earth and the possibility of life in the Solar System and beyond. Topics include: Planetary-Habitability, Exoplanets, Astro/Exobiology, Extremophiles, Techniques, and searches for Extraterrestrial-Intelligence.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Fall 2021, Fall 2019

AST 3148: The Prncpl of Scientific Model

Discusses the principle aspects of computational modeling in science, with stress on interdisciplinarity and synergy with big data science. Students gain hands-on experience in solving prototypical scientific problems using modern computational techniques.

Credits 3.0

Last Offered

Spring 2024, Spring 2022, Spring 2020

AST 4121: Undergrad Research I

Student participation in departmental or independent research under faculty supervision; frequent conferences on literature search, research techniques, experimental procedures and results.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

AST 4122: Undergrad Research II

Continuation of AST 4121.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

AST 5900: Independent Study

Supervised study, activity or research in a selected area of astronomy & astrophysics. May be repeated for credit if the topics are different. Prior approval of chair and instructor.

Credits 3.0

Last Offered

Spring 2022

MET 1221: Severe & Hazardous Weather

This introductory meteorology course covers the fundamentals of meteorology with emphasis on severe and hazardous weather and effects of these on human life, environment and the economy. Severe storms that include tropical cyclones (hurricanes), extratropical cyclones, ""Nor-easters""

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MET 1222: Climate Change:Past & Present

Earth's climate and climate changes. Past climates (Paleoclimatology), major Ice Ages over the last billion years, methods for reconstructing past climates, including radio isotopic techniques. Fossil, geological, sedimentary, flora and fauna and documentary records. Physical causes of climate changes, recent warming trends in global climate (both natural and anthropogenic), future global climate (short- and long- term) and climate models. Possible effects of global climate change on our environment and resulting economic and geopolitical consequences.

Credits 3.0

Prerequisites

MAT 1310 or MAT 1320 or MAT 1330 or MAT 1500 or MAT 1400

Prerequisite Courses

MAT 1310
MAT 1320
MAT 1330
MAT 1500
MAT 1400

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

MSE 2100: AST:Birth and Death of Stars

A study of the fundamental properties of the Sun and stars. The formation of stars, their energy generation, evolution, and death - leading to the formation of exotic new objects such as white dwarfs, neutron stars, and black holes.

Credits 3.0

Corequisites

MSE 2151

Corequisite Courses

MSE 2151

Last Offered

Summer 2025, Spring 2025,
Summer 2024, Spring 2024

MSE 2101: AST:Life in the Universe

A study of the origin and evolution of life on Earth and the possibilities of life in the Solar System and among the stars. The conditions leading to planetary habitability and how life outside the Solar System might be detected.

Credits 3.0

Corequisites

MSE 2150

Corequisite Courses

MSE 2150

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

MSE 2102: AST:Planetary Skies/Landscapes

A study of our own and other Solar Systems, including formation and evolution. The physical properties which shape planetary interiors, surfaces, and atmospheres. The Earth is studied in the context of the other planets, and its unique properties are examined.

Credits 3.0

Corequisites

MSE 2150

Corequisite Courses

MSE 2150

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

MSE 2103: AST:How Old is the Universe

How we know the Universe is 13.7 billion years old? Includes evidence from the Solar System, the oldest stars seen in the Milky Way galaxy, and the observed expansion of the Universe itself. Evolution and fate of the Universe.

Credits 3.0

Corequisites

MSE 2151

Corequisite Courses

MSE 2151

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

MSE 2104: AST:Earth-Our Habitable World

Explores the Earth as our home and as a laboratory for understanding the scientific method. The characteristics, dynamics, and evolution of the Earth. Leads to the discovery and understanding of the fundamental scientific principles at work on our home world.

Credits 3.0

Corequisites

MSE 2152

Corequisite Courses

MSE 2152

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

MSE 2105: AST:Earth-A Cosmic Connection

Explores the Sun and the stars - our ultimate sources of energy and the chemical elements. Characteristics, dynamics, and evolution of the Sun and the stars. The discovery and understanding of the fundamental scientific principles at work throughout the universe.

Credits 3.0

Corequisites

MSE 2153

Corequisite Courses

MSE 2153

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

MSE 2150: AST:Astronomy Lab - Planets

1-cr laboratory course focusing on planetary astronomy. To be taken as a co-requisite with MSE 2101 "Life in the Universe" or MSE 2102 "Planetary Skies and Landscapes".

Credits 1.0

Prerequisites

MSE 2101 :Y or MSE 2102 :Y

Prerequisite Courses

MSE 2101

MSE 2102

MSE 2102

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

MSE 2151: AST:Astronomy Lab - Stars

1-cr laboratory course focusing on stellar and galactic astronomy. To be taken as a co-requisite with MSE 2100 "Birth and Death of Stars" or MSE 2103 "How Old is the Universe?".

Credits 1.0

Prerequisites

MSE 2100 :Y or MSE 2103 :Y

Prerequisite Courses

MSE 2100

MSE 2103

Last Offered

Summer 2025, Spring 2025,
Summer 2024, Spring 2024

MSE 2152: AST:Our Habitable World Lab

1-cr laboratory course to be taken as a co-requisite with MSE 2104 "Earth: Our Habitable World".

Credits 1.0

Corequisites

MSE 2104

Corequisite Courses

MSE 2104

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

MSE 2153: AST:A Cosmic Connection Lab

1-cr laboratory course to be taken as a co-requisite with MSE 2105 "Earth: The Cosmic Connection".

Credits 1.0

Corequisites

MSE 2105

Corequisite Courses

MSE 2105

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

Augustine and Culture Seminar

ACS 1000: Ancients

A Humanities seminar based principally on texts and readings drawn from primary sources up to 1650. Extensive written work and seminar discussions. Required readings: Hebrew and Christian scriptures, selections from the works of Augustine, Greek and Renaissance works. Readings from different genres and disciplines. Themes developed by the instructor in accordance with the selected readings.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ACS 1001: Moderns

A Humanities seminar based principally on texts and readings drawn from primary sources 1650 to the present. Extensive written work and seminar discussions. Readings from each of the following five historical eras: Early Modern, Enlightenment, Romantic, Modernist, Contemporary. Readings will also reflect different genres and disciplines. Themes developed by the instructor in accordance with the selected readings, including a specific Augustinian theme.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Biology

BIO 1057: Intro to Occupational Therapy

Provide an understanding of the practice of Occupational Therapy through observation & readings in an independent study format.

Credits 2.0

Last Offered

Spring 2024, Fall 2023, Spring 2023, Fall 2022

BIO 1101: Biology

General principles, cells and energy, hereditary mechanisms, survey of organisms, evolution and ecological principles. For non-biologists who do not plan a more extensive study of biology. Open to VSB majors.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Spring 2023, Fall 2022

BIO 1181: Microbiology and Genetics

The structure of prokaryotic and eukaryotic cells; microbial classification; control of microbial growth; principles of disease; pathogenic mechanisms; host defenses. Eukaryotic and prokaryotic gene organization and function; analysis of patterns of inheritance; recombinant DNA technology; linkage and genetic maps, genetic variation in human populations; inheritance, diagnosis and treatment of metabolic disease; cytogenetics; immunogenetics; cancer; developmental genetics. Open to Nursing majors.

Credits 3.0

Last Offered

Spring 2024, Fall 2023, Fall 2022, Fall 2021

BIO 1185: Human Genetics/ Microbiology

The structure of prokaryotic and eukaryotic cells; microbial classification; control of microbial growth; principles of disease; pathogenic mechanisms; host defenses; treatments; antibiotic resistance. Gene organization/ function analysis of inheritance patterns; DNA technology; linkage maps; genetic variation. Open to Nursing majors.

Credits 4.0

Last Offered

Fall 2025, Spring 2025, Fall 2024

BIO 1205: Human Anatomy & Physiology I

Basic concepts and laboratory studies of anatomy and physiology with presentation of overall morphology and function of the integumentary, skeletal, muscular, nervous, and endocrine systems. Designed primarily for Nursing majors and students interested in allied health professions.

Credits 4.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

BIO 1206: Human Anatomy & Physiology II

Continuation of Biology 1205. The structure and function of the cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and immune systems. Designed primarily for Nursing majors and students interested in allied health professions.

Credits 4.0

Prerequisites

BIO 1205

Prerequisite Courses

BIO 1205

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

BIO 1903: Internship Elective

Open to BIO and BSC majors.

Credits 3.0

Prerequisites

(BIO 2105 :Y :D- or HON 1075 :Y :D-) and (BIO 2106 :Y :D- or HON 1076 :Y :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

BIO 1906: Internship Elective

Open to BIO and BSC majors.

Credits 6.0

Prerequisites

(BIO 2105 :Y :D- or HON 1075 :Y :D-) and (BIO 2106 :Y :D- or HON 1076 :Y :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

BIO 1950: TOPIC: Elective in Biology

Selected topics in biological and interdisciplinary studies. Will not count for credit for the biology major.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring 2024, Spring 2020

BIO 2101: General Biology I Lecture

The lecture portion of Bio 2105. An introduction to biological organization stressing the molecular and cellular aspects of living organisms. The chemistry of life, the cell, the gene, and mechanisms of evolution.

Credits 3.0

Corequisites

Last Offered

Fall 2020, Summer 1995

BIO 2102: General Biology I Lab

The laboratory portion of BIO 2105; taken with BIO 2101. An introduction to biological organization stressing the molecular and cellular aspects of living organisms. The chemistry of life, the cell, the gene, and mechanisms of evolution.

Credits 1.0

Corequisites

Last Offered

Fall 2022, Fall 2021, Summer 1995

BIO 2103: General Biology II Lecture

The lecture portion of BIO 2106. The origin of life and diversity of organisms seen in five biological kingdoms. Topics include nutrient acquisition, digestion, circulation, response to stimuli, movement, reproduction, behavior, and ecology.

Credits 3.0

Corequisites

Last Offered

Spring 2021, Summer 1995,
Spring 1995

BIO 2104: General Biology II Lab

The laboratory portion of BIO 2106; taken with BIO 2103. The origin of life and diversity of organisms seen in five biological kingdoms. Topics include nutrient acquisition digestion, circulation, response to stimuli, movement, reproduction, behavior and ecology.

Credits 1.0

Corequisites

Last Offered

Spring 2022, Summer 1995, Spring 1995

BIO 2105: General Biology I

An introduction to biological organization stressing the molecular and cellular aspects of living organisms. The chemistry of life, the cell, the gene, and mechanisms of evolution.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

BIO 2106: General Biology II

The origin of life and diversity of organisms seen in five biological kingdoms. Topics include nutrient acquisition, digestion, circulation, response to stimuli, movement, reproduction, behavior, and ecology.

Credits 4.0

Prerequisites

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

BIO 2500: Research

Student participation in independent research under faculty supervision, frequent conferences with faculty mentor on literature search and/or experimental research. Faculty mentor permission required.

Credits 0.0

Prerequisites

BIO 2105

Prerequisite Courses

BIO 2105

BIO 2993: Internship

Open to BIO and BSC majors.

Credits 3.0

Prerequisites

(BIO 2105 :Y :D- or HON 1075 :Y :D-) and (BIO 2106 :Y :D- or HON 1076 :Y :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

BIO 2996: Internship

Open to BIO and BSC majors.

Credits 6.0

Prerequisites

(BIO 2105 :Y :D- or HON 1075 :Y :D-) and (BIO 2106 :Y :D- or HON 1076 :Y :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

BIO 3011: Animal Behavior Lecture

This is the lecture-only alternative to the lecture/lab course BIO 3015; Animal Behavior, and does not count towards the EcoEvoPop Bio requirement for the Biology major. Topics include communication, foraging, territoriality, mating systems, parental behavior, and social organization.

Credits 3.0

Prerequisites

(BIO 2105 :D- or HON 1075 :D-) and (BIO 2106 :D- or HON 1076 :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Spring 2024, Spring 2023, Spring 2022, Spring 2013

BIO 3015: Animal Behavior

Lecture topics cover communication, foraging, territoriality, mating systems, parental behavior, and social organization. Laboratories include collection, statistical analysis, and interpretation of behavioral data, culminating in a small-group independent research project.

Credits 4.0

Prerequisites

(BIO 2105 or HON 1075) and (BIO 2106 or HON 1076)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

BIO 3055: Human Physiology

The basic principles underlying how animals function and the mechanisms used to solve physiological problems.

Credits 4.0

Prerequisites

(BIO 2105 :D- or HON 1075 :D-) and (BIO 2106 :D- or HON 1076 :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 3085: Human Anatomy

A gross anatomical study of the human organism. Structural relationship within and between organ systems will be studied in both lecture and laboratory. Laboratory emphasizes structural relationships using dissection and 3D anatomical computer.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

BIO 3105: Experimental Design & Analysis

This course introduces research methods in biology, emphasizing hypothesis development, research design, data management, statistical analysis, and data visualization using the computational language R. No prior computational experience is necessary. Students will present findings through publication-ready figures, presentations, and posters.

Credits 4.0

Prerequisites

(BIO 2105 or HON 1075) and (BIO 2106 or HON 1076)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2024, Spring 2023, Spring 2022, Spring 2021

BIO 3125: Bioinformatics

Bioinformatics is a multidisciplinary field that uses computation tools to solve problems in evolutionary biology, disease biology, and cell biology. Students will use bioinformatics tools and databases to analyze DNA, RNA and protein sequences. No programming skills are needed

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Spring 2024

BIO 3155: Comparative Anatomy

Evolution of homologous structures of vertebrates including functional considerations. Laboratory includes systematic and topical dissection of representative chordates and demonstrations of living organisms' functions.

Credits 4.0

Prerequisites

(BIO 2105 :D- or HON 1075 :D-) and (BIO 2106 :D- or HON 1076 :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

BIO 3255: Evolutionary Ecology

Factors affecting the distribution, abundance, and interactions of organisms. Climate patterns, biomes, physiological adaptation, behavioral ecology, population dynamics, species interactions, biodiversity, and conservation ecology. Emphasis on community level of organization and below; complements BIO 3385 Global Change Ecology. Hypothesis testing using statistical analysis of data.

Credits 4.0

Prerequisites

(BIO 2105 :D- or HON 1075 :D-) and (BIO 2106 :D- or HON 1076 :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2021

BIO 3351: Genetics

Transmission, molecular, evolutionary and population genetics, gene regulation and genomics. Heredity; how genetic information is stored, regulated and transferred; how genes interact and relate to phenotype. Tutorials develop problem-solving and bioinformatics skills, and provide a forum for discussion. Chemistry pre-requisites may be taken concurrently.

Credits 4.0

Prerequisites

(BIO 2105 or HON 1075) and (CHM 1103 and CHM 1151 or CHM 1611) or (CHM 1311 and CHM 1301)

Prerequisite Courses

BIO 2105

CHM 1103

CHM 1151

CHM 1611

CHM 1311

CHM 1301

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 3385: Global Change Ecology

Roles of ecology in documenting, responding, feeding back to, and mitigating human-caused changes to Earth's chemistry, geography and climate. Laboratories include ecological techniques, such as carbon flux measurements, and independent research projects. Emphasis on ecosystem-level processes with global consequences; complements BIO 3255 Evolutionary Ecology.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Spring 2025, Fall 2022, Fall 2020

BIO 3455: Histology

The microscopic study and demonstration of cells, tissues and organ systems of the mammalian body.

Credits 4.0

Prerequisites

(BIO 2105 :D- or HON 1075 :D-) and (BIO 2106 :D- or HON 1076 :D-)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2024, Fall 2022, Fall 2021

BIO 3485: Marine Biology

An introduction to chemical, physical and geological oceanography; the biology and ecology of marine organisms (Plankton, seaweeds, invertebrates, fishes, sea birds, marine mammals); and the comparative ecology of marine communities and ecosystems (estuaries, rocky intertidal, kelp forests, coral reefs, the deep sea and hydrothermal vents).

Credits 4.0

Prerequisites

(BIO 2105 or HON 1075) and (BIO 2106 or HON 1076)

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2020

BIO 3525: Entomology

Lecture includes anatomy, sensory systems, physiological adaptations, reproductive biology, social behavior and interactions with humans. Laboratory includes functional morphology, ecology and taxonomy of preserved and collected specimens.

Complements Invertebrate Zoology, which covers freshwater and marine invertebrates.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Fall 2021, Fall 2020, Fall 2018

BIO 3591: General Microbiology Lecture

This is the lecture-only alternative to the lecture/lab course BIO 3595: General Microbiology. Bacteria, viruses, eukaryotic microbes, immune function. Microbes in air, water, soil: interactions with plants and animals. Agricultural, commercial, industrial, and medical applications.

Credits 3.0

Prerequisites

BIO 2105 or HON 1075

Prerequisite Courses

BIO 2105

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 3595: General Microbiology

Bacteria, viruses, eukaryotic microbes, immune function. Microbes in air, water, soil: interactions with plants and animals. Agricultural, commercial, industrial, and medical applications. Laboratory studies in growth and analysis of selected organisms/viruses.

Credits 4.0

Prerequisites

(BIO 2105 :D- or HON 1075 :D-)

Prerequisite Courses

BIO 2105

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 3615: Biomechanics

Biomechanics is the study of how the form and activities of organisms reflect physical environmental parameters such as flow, available materials, and forces. Students will learn key concepts, current directions in the field, real-world applications, and how to conduct experiments.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2024, Fall 2023

BIO 3655: Ecosystem Ecology

Ecosystem Ecology explores the interactions of living organisms with non-living entities such as climate, soil minerals, and Earth's atmosphere. We engage in discussion, data collection, and development of quantitative skills to explore processes from enzyme dynamics to global temperature regulation.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

BIO 3661: Environment and Human Health

Presentation and discussion of scientific aspects of topics relating to the environment and human health. Specific topics covered vary, but could include biodiversity and health, ecosystem services, infectious diseases, climate change, endocrine disruption, food production (including GMOs), and urban ecology.

Credits 3.0

Prerequisites

(BIO 2105 and BIO 2106) or
(GEV 1050 and GEV 1051)

Prerequisite Courses

BIO 2105
BIO 2106
GEV 1050
GEV 1051

Last Offered

Fall 2025, Fall 2019, Fall 2017,
Fall 2015

BIO 3705: Functional Morphology

Functional morphology is the study of the relationship between biological forms and function. In this course, student will study morphological features (forms), measure their performance (function), and relate their findings to the behavior and ecology of organisms.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105
BIO 2106

BIO 3805: Conservation Biology

Explores key concepts in conservation biology, including biodiversity, metapopulation dynamics, habitat fragmentation, reserve design, and endangered species. Integrates biological, social, and economic principles for conservation policy. Labs focus on techniques to measure biodiversity and apply data to conservation management decisions.

Credits 4.0

Prerequisites

(BIO 2105 or HON 1075) and
(BIO 2106 or HON 1076)

Prerequisite Courses

BIO 2105
BIO 2106

BIO 3855: Neurogenetics

In Neurogenetics, we will examine the genetics of animal behavior, and nervous system function and development in vertebrates and invertebrates. Topics include sensory systems, learning and memory, hunger, circadian biology, sexual behavior, neurodevelopmental disorders, and the evolution of nervous systems.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105
BIO 2106

BIO 3950: Special Topics in Biology

Coverage of current topics in biology. Topics will be announced on a semester-by-semester basis. Specific information available in the departmental office.

Credits 3.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105
BIO 2106

Last Offered

Spring 2022, Spring 2021, Fall
2019, Spring 2019

BIO 3952: Special Topics in Biology LAB

One credit lab in Biology. Topic to be determined by term.

Credits 1.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105
BIO 2106

Corequisites

Last Offered

Fall 2021, Spring 2021, Fall
2020, Spring 2020

BIO 3955: Lec+Lab in Topics in Biology

Coverage of current topics in biology with lectures and accompanying lab. Topics will be announced on a semester-by-semester basis. Specific information available in the departmental office.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 4105: Medical Microbiology

In-depth study of medical microbes including bacteria, viruses, fungi, parasites. Discussion of pathogenesis, disease diagnosis, vaccine design, microbe hunting. Case studies presented. Lab provides hands-on microbiology including diagnostics, horizontal gene transfer, and tissue culture assays.

Credits 4.0

Prerequisites

BIO 3595 :D- or BIO 3351 or BIO 3755

Prerequisite Courses

BIO 3595

BIO 3351

BIO 3755

Last Offered

Fall 2024, Fall 2022, Fall 2020, Fall 2018

BIO 4201: Cell Biology Lecture

This is the lecture-only alternative to the lecture/lab course BIO 4205: Cell Biology. The mechanisms of cell signaling, regulation of growth and division, adhesion, movement, macromolecular, biosynthesis, processing and trafficking.

Credits 3.0

Prerequisites

BIO 3351 and CHM 2212 :Y

Prerequisite Courses

BIO 3351

CHM 2212

Last Offered

Fall 2022

BIO 4205: Cell Biology

The mechanisms of cell signaling, regulation of growth and division, adhesion, movement, macromolecular biosynthesis, processing and trafficking. Important experimental techniques and strategies for study of the eukaryotic cell.

Credits 4.0

Prerequisites

BIO 3351 :D- and CHM 2212 :Y :D-

Prerequisite Courses

BIO 3351

CHM 2212

Last Offered

Fall 2024, Spring 2024, Spring 2023, Fall 2022

BIO 4251: Endocrine Physiol/ Pharmacology

Mechanisms of endocrine control of growth, metabolism, reproduction, adaptation, and behavior. The endocrine glands.

Credits 3.0

Prerequisites

BIO 3055 :D-

Prerequisite Courses

BIO 3055

Last Offered

Spring 2025, Fall 2020, Fall 2019, Fall 2018

BIO 4252: Endocrine Physiol/ Pharmacology

Laboratory experience in endocrinology, demonstrative and analytical.

Credits 1.0

Prerequisites

BIO 3055 :D-

Prerequisite Courses

BIO 3055

Corequisites

BIO 4251

Corequisite Courses

BIO 4251

Last Offered

Spring 2025, Fall 2016, Fall 2015, Fall 2014

BIO 4285: Developmental Biology

Mechanisms and patterns of vertebrate embryo development from primordial germ cells to formation of organ systems. Lectures on, and laboratory work with living embryos; microscopic study of prepared embryos; and individual research projects.

Credits 4.0

Prerequisites

BIO 3351 :D-

Prerequisite Courses

BIO 3351

Last Offered

Fall 2024, Spring 2023, Spring 2022, Spring 2021

BIO 4305: Evolution

Process and pattern from micro- and macro-evolutionary perspectives. Evolutionary genetics, natural selection, speciation, macroevolutionary trends, and extinctions. Field, laboratory, and computer approaches.

Credits 4.0

Prerequisites

BIO 3351 :D-

Prerequisite Courses

BIO 3351

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2019

BIO 4331: Biology of Cancer

Coverage of causes, genetics, clinical aspects, and cell biology of cancer from preneoplastic state to invasive metastasis. Includes diagnosis, therapeutics, treatment, and prevention. Coursework in cell and/or molecular biology preferred.

Credits 3.0

Prerequisites

BIO 3351

Prerequisite Courses

BIO 3351

Last Offered

Spring 2025, Spring 2023, Spring 2022, Spring 2020

BIO 4355: Experimental Genetics

Laboratory exploration and discussion of topics in bacterial, developmental, molecular, population and transmission genetics. Readings in the primary literature are stressed.

Credits 4.0

Prerequisites

BIO 3351 :D-

Prerequisite Courses

BIO 3351

Last Offered

Spring 2022, Spring 2015, Spring 2013, Spring 2012

BIO 4451: Field Ecol and Evol

Advanced study of organisms and ecosystems of a particular region (location varies; has included Florida, Puerto Rico, Nova Scotia). General principles explored using examples from focal area: historical and ecological biogeography, habitat patterns, biotic and abiotic interaction, evolutionary processes, and conservation problems.

Credits 2.0

Prerequisites

BIO 3012 :D- or BIO 3255 :D- or BIO 4305 :D- or BIO 3505 :D- or BIO 3555 :D- or BIO 3905 :D- or BIO 4485 :D- or BIO 3505 :D-

Prerequisite Courses

BIO 3255

BIO 4305

BIO 3505

BIO 3555

BIO 3905

BIO 3505

Corequisites

Last Offered

Fall 2023, Fall 2019, Spring 2019, Fall 2017

BIO 4452: Field Ecol and Evol Lab

Field study of organisms and ecosystems of a focal region. Trip lasting 15-20 days usually in late May to geographical area covered in BIO 4451, with focus on local habitats and conservations projects, field identification, group exercises, and independent research projects. Costs to students and timing vary with site chosen. (2 cr) Sem 2, even year.

Credits 2.0

Prerequisites

BIO 3012 :D- or BIO 3255 :D- or BIO 4305 :D- and BIO 4451 :Y :D-

Prerequisite Courses

BIO 3255
BIO 4305
BIO 4451

Corequisites

Last Offered

Spring 2024, Spring 2020,
Spring 2019, Spring 2018

BIO 4501: Molecular Biology Lecture

This is the lecture-only alternative to the lecture/lab course BIO 4505: Molecular Biology. DNA structure, replication, recombination, mutagenesis and repair, transcription, RNA processing, translation and the genetic code, control of gene expression, eukaryotic genome structure. Molecular aspects of immunity, cancer; and AIDS

Credits 3.0

Prerequisites

BIO 3351 and CHM 2212 :Y

Prerequisite Courses

BIO 3351
CHM 2212

Last Offered

Fall 2023, Fall 2022

BIO 4505: Molecular Biology

DNA structure, replication, recombination, mutagenesis and repair, transcription, RNA processing, translation and the genetic code, control of gene expression, eukaryotic genome structure. Molecular aspects of immunity, cancer, and AIDS. Laboratory exercises in gene cloning and analysis.

Credits 4.0

Prerequisites

BIO 3351 :D- and CHM 2212 :Y

Prerequisite Courses

BIO 3351
CHM 2212

Corequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 4605: Neurobiology

The physiology of the nervous system using vertebrates and invertebrates. The function of nerve cells, synapses, sensory, motor, behavior and learning.

Credits 4.0

Prerequisites

BIO 3055 :D-

Prerequisite Courses

BIO 3055

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

BIO 4655: Immunology

Fundamental principles underlying innate and adaptive immunity. Qualitative and quantitative analyses used to understand cellular and molecular mechanisms of development and function of immune cells, including lymphocytes and mechanisms related to self-tolerance, antigen processing and presentation, lymphocyte activation, lymphocyte death.

Credits 4.0

Last Offered

Spring 2025, Spring 2024

BIO 4950: Advanced Topics in Biology

Coverage of current topics in biology. Topics will be announced on a semester-by-semester basis. Typically has a course at the 3000-level as a prerequisite. Specific information available in the departmental office.

Credits 3.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105
BIO 2106

Last Offered

Fall 2025, Fall 2024, Spring 2023, Fall 2022

BIO 4955: Lec+Lab in Adv Topics in Bio.

Advanced topics course with integrated lab. Topics will be announced on a semester-by-semester basis. Typically has a course at the 3000-level as a prerequisite. Specific information available in the departmental office.

Credits 4.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2025, Spring 2024, Fall 2023

BIO 5100: Senior Seminar

Special topics in modern biology, presented by student lectures and informal discussions. Topics to be announced each semester.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

BIO 5300: Biology Capstone

Special topics in biology, covered through readings from primary and secondary literature, student presentations and/or projects, and discussions. Topics to be announced each semester.

Credits 3.0

Prerequisites

BIO 2105 :D- and BIO 2106 :D-

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 6100: Affiliation Study

Credits 0.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 6101: Leadership & Mentoring in Bio

Student mentors will learn about leadership, pedagogy and higher learning by helping first-year Biology students, including those with socioeconomic or other disadvantages, to develop study skills, time management assistance, test anxiety strategies, and pathways for navigating academics.

Credits 1.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

BIO 6102: Special Biology Lab Topics

Students attend research meetings in a specific lab and complete activities determined by the instructor.

Credits 1.0

Prerequisites

BIO 2105 and BIO 2106

Prerequisite Courses

BIO 2105

BIO 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 6401: BS/MS Independent Study 1

Supervised laboratory/field research

Credits 1.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2021

BIO 6402: BS/MS Independent Study 2

Supervised laboratory/field research.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

BIO 6403: BS/MS Independent Study 3

Supervised laboratory/field research.

Credits 1.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2021

BIO 6404: BS/MS Independent Study 4

Supervised laboratory/field research.

Credits 1.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

BIO 6509: Directed Research I

First semester of library and/or laboratory research under student-selected Biology faculty member (can lead to thesis research). Must be approved by faculty mentor. Does not count for biology laboratory credit alone.

Credits 2.0

Prerequisites

(BIO 2105 :D- or HON 1075 :D-) and (BIO 2106 :D- or HON 1076 :D-)

Prerequisite Courses

BIO 2105
BIO 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

BIO 6510: Directed Research II

Second semester of library and/or laboratory research under student-selected Biology faculty members (can lead to thesis research). Must be approved by faculty mentor. Does not count for biology laboratory credit alone.

Credits 2.0

Prerequisites

BIO 6509

Prerequisite Courses

BIO 6509

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

BIO 6511: Directed Research III

Third semester of library and/or laboratory research under student-selected Biology faculty member (can lead to thesis research). Must be approved by faculty mentor. Does not count for biology laboratory credit alone.

Credits 2.0

Prerequisites

BIO 6510

Prerequisite Courses

BIO 6510

Last Offered

Fall 2025, Spring 2025, Fall 2024

BIO 6609: Thesis Research I

Laboratory research with Biology faculty member selected by student. Fall semester. Requires permission of faculty mentor & instructor and 3.0 QPA. Part 1 of two-semester sequence; continues as Thesis Research II, which culminates in a written thesis.

Credits 3.0

Prerequisites

(BIO 2105 or HON 1075) and (BIO 2106 or HON 1076)

Prerequisite Courses

BIO 2105

BIO 2106

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

BIO 6610: Thesis Proseminar

Scheduled group meetings with other research students in the department, focusing on general and specific aspects of thesis research. Fall semester. Requires permission of instructor and 3.0 QPA. Continues as Thesis Research II, which culminates in a written thesis.

Credits 1.0

Prerequisites

(BIO 2105 or HON 1075) and (BIO 2106 or HON 1076)

Prerequisite Courses

BIO 2105

BIO 2106

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

BIO 6709: Thesis Research II

Continuation of Thesis Research I or Directed Research. Laboratory research with Biology faculty member selected by student. Spring semester. Requires permission of faculty mentor & instructor and 3.0 QPA. Culminates in a written thesis. Counts typically for Laboratory credit toward the major.

Credits 2.0

Prerequisites

BIO 6509 or BIO 6609

Prerequisite Courses

BIO 6509

BIO 6609

Corequisites

BIO 5100

Corequisite Courses

BIO 5100

Last Offered

Spring 2025, Spring 2024,

Spring 2023, Spring 2022

MSE 2200: BIO:Behavioral Bio of Animals

Mechanisms, evolution, and consequences of animal behavior, including how genes and environment affect behavior, learning and animal consciousness, role of hormones, predator-prey interactions, visual and auditory communication, courtship/mate choice, and human social behavior. Includes lectures, experimental labs, and student project.

Credits 4.0

Last Offered

Fall 2021

MSE 2201: BIO:How Microbes Rule World

Overview of microbiology, illustrating the roles of bacteria, viruses, fungi, algae and protozoa in our food, environment, and health. Lectures and labs cover microbe classification, control of microbial growth, roles of microorganisms in agriculture, ecology and industry, and principles of disease and host defenses.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Spring 2020, Fall 2019

MSE 2202: BIO:Biological and Politics

Examination of importance of science and technology in contemporary political issues such as alternative energy, global climate change and evolution. Scientific method and biological principles important in objective, evidence-based explanations examined through lectures, guest speakers, debates, and laboratory exercises.

Credits 4.0

Last Offered

Fall 2023, Fall 2022, Spring 2020, Fall 2019

MSE 2203: BIO:Heredity & Human Affairs

Overview of genetic topics and their social/ethical impacts, including genetic engineering, assisted reproduction, artificial wombs, Human Genome Project, cloning, fetal stem cells, gene therapy, and chromosomal abnormalities and disorders. Includes lectures, field trips, labs, discussions and student presentations.

Credits 4.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MSE 2204: BIO:How The Body Works

Principles and mechanisms underlying how the human body functions, with emphasis on physical fitness. Includes lectures, discussions, and labs.

Credits 4.0

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

MSE 2205: BIO:Biodiversity& Conservation

Examination of challenge of balancing needs of an ever-growing human population while maintaining a healthy environment. Covers importance of biodiversity to both humans and proper functioning of earth, and discusses methods of effective conservation. Includes lectures, discussion sessions, and lab/field exercises.

Credits 4.0

Last Offered
Spring 2021

MSE 2206: BIO:Biotechnology in Our Soc.

Overview of revolutionary role of biotechnology in our society, including manipulation and analysis of DNA, transfer of genetic information, and use of computers in bioinformatics. Lectures and laboratory include recombinant DNA technology, gel electrophoresis, forensic DNA typing, problem solving, and socio-political-ethical issues.

Credits 4.0

Last Offered
Spring 2024, Fall 2023, Spring 2023, Fall 2022

MSE 2207: BIO:Organisms in Changing Envr

Exploration of effect of environmental factors (temperature, precipitation, ocean currents, humidity, wind) on physiology, distribution, and interactions of organisms in different ecosystems, as well as the longer term effects of climate change on biodiversity. Includes lectures, discussion sessions, labs, and a group project.

Credits 4.0

Last Offered
Spring 2022, Fall 2021

MSE 2208: BIO:Cancer Chronicles

Overview of cancer, including its causes and how it is studied, evaluated, and treated. With one half of men and a third of women developing cancer, also covers importance of cancer in both socioeconomic and health terms. Includes lectures and labs.

Credits 4.0

Last Offered
Spring 2025, Spring 2024,
Spring 2023, Fall 2020

MSE 2210: BIO:Drugs:HowTheyWork,C

How drugs work and why they should be taken with caution. Topics include: drug treatment of major illnesses; causes of drug toxicities/addiction; the actions of performance enhancing drugs; and influence of drugs on society.

Credits 4.0

Last Offered
Spring 2025, Spring 2024,
Spring 2022, Summer 2021

MSE 2211: BIO:Vaccines&Public Perception

Overview of vaccine science and pathogens, including how the history of vaccines, anti-vaccine movements, and social contexts play integral roles in public perception. Laboratory topics include an inquiry-based progression through vaccine design and student-designed public outreach campaigns to promote vaccination.

Credits 4.0

Last Offered
Summer 2025, Spring 2023,
Spring 2022, Spring 2021

MSE 2212: BIO:Genealogy-All InYourFamily

Methods for constructing family trees from DNA tests, including student's own, and vital records. Biological basis of heredity; applications in evolution, behavior, and conservation. Interdisciplinary consideration of contexts concerning ancestry.

Credits 4.0

Last Offered

Spring 2023, Spring 2022, Fall 2021, Fall 2020

Business Administration

BA 2002: Bus Admin Internship- Global

Employment with an approved firm with the internship taking place outside of the United States where experience is gained with appropriate training, instruction, and supervision. Prerequisites: minimum GPA; approval of chair.

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Spring 2024, Summer 2023

Business Law

BL 2135: Bus. Entity Law, Gov, Ethics

The law of agency, partnerships and corporations; personal property; the Uniform Commercial Code sections dealing with secured transactions and negotiable instruments; moral and ethical dimensions; comparison with other legal systems.

Credits 3.0

Prerequisites

VSB 2007

Prerequisite Courses

VSB 2007

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

BL 2149: Cont. Topics in Business Law

Contemporary issues and topics which affect the legal environment of business.

Credits 3.0

Prerequisites

VSB 2007

Prerequisite Courses

VSB 2007

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

BL 2160: International Business Law

The nature, sources, functions and practical applications of International Law, approached from a perspective of the individual, governments, and business entities. Emphasis on the "rules" that govern doing business globally and resolving disputes."

Credits 3.0

Prerequisites

VSB 2007

Prerequisite Courses

VSB 2007

Last Offered

Fall 2025, Fall 2024, Fall 2022, Fall 2021

BL 2165: Employment Law

Provide a survey of the current employment laws in the United States, covering issues as hiring, job security, compensation, benefits, safety and health, employer rights, employee rights, privacy rights, collective bargaining, and employment discrimination.

Credits 3.0

Prerequisites

VSB 2007

Prerequisite Courses

VSB 2007

Last Offered

Fall 2025, Fall 2024

BL 2175: Intellectual Property Law

Examines several aspects of intellectual property law, including the nature of property, patents, copyrights, trademarks, and trade secrets, as well as a brief look at regulation of private information

Credits 3.0

Prerequisites

VSU 2007

Prerequisite Courses

VSU 2007

Last Offered

Spring 2025, Spring 2024

BL 2185: Law of Contracts & Sales

Elements for legal agreements; Uniform Commercial Code Article 2; moral and ethical dimensions; comparison with other legal systems.

Credits 3.0

Prerequisites

VSU 2007

Prerequisite Courses

VSU 2007

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

BL 3350: Independent Study - BL

Independent Study under faculty guidance in an area of student's special interest. Permission of Faculty and Department Chair.

Credits 3.0

Prerequisites

VSU 2007

Prerequisite Courses

VSU 2007

Last Offered

Fall 2020, Summer 2017, Summer 2016, Summer 2015

Center for Irish Studies

IS 4100: Spec Top in Irish Studies

Perspectives on the culture and history of Ireland. Presentations by the Resident Program Director, lectures by a range of NUI faculty, readings by noted Irish writers, performances by a local musicians, and field trips. Required of all students participating in the semester abroad program at NUI Galway, Ireland.

Credits 3.0

Last Offered

Spring 2022, Spring 2020, Fall 2019, Spring 2019

Chemical Engineering

CHE 1102: Material Balances

Introduction to chemical engineering processes and modeling them with material balances.

Credits 3.0

Prerequisites

EGR 1200

Prerequisite Courses

EGR 1200

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHE 2101: Thermodynamics 1

Thermodynamics of single component systems: applications of first and second laws, steady-state energy balances, equations of state, thermodynamic properties of fluids, thermochemistry.

Credits 3.0

Prerequisites

CHE 1102

Prerequisite Courses

CHE 1102

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHE 2102: Thermodynamics 2

The fundamental property relation, thermodynamic properties of single and multiple pure phases, homogeneous multicomponent phases, ideal and non-ideal liquid solutions, phase equilibria, chemical reaction equilibria, problem solving techniques, applications.

Credits 3.0

Prerequisites

CHE 2101

Prerequisite Courses

CHE 2101

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHE 2201: Fluid Dynamics

Fluid statics, fluid properties, flow of incompressible fluids in conduits, friction factors, meters, pumps, external flow, drag, flow in packed and fluidized beds.

Credits 3.0

Prerequisites

CHE 1102 and MAT 2705 :Y

Prerequisite Courses

CHE 1102

MAT 2705

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHE 2202: Heat Transfer

Principles of heat flow, mechanisms of conduction, convection and radiation, correlations for heat transfer coefficients, heat transfer equipment and process applications.

Credits 3.0

Prerequisites

CHE 2201 and CHE 2101

Prerequisite Courses

CHE 2201

CHE 2101

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHE 2301: ChE Computational Methods

Introduction to the software and computational tools necessary for chemical engineers, including MathCAD, MatLAB, ASPEN, and others.

Credits 3.0

Prerequisites

CHE 1102

Prerequisite Courses

CHE 1102

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHE 2402: Technical Communications

Oral and written communication skills, reporting and analyzing results of experiments and/or literature investigations, graphical reporting.

Credits 3.0

Prerequisites

CHE 2301

Prerequisite Courses

CHE 2301

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHE 3201: Mass Transfer

Fundamentals of interphase mass transfer: mechanisms, driving force and resistance to transfer, design and analysis of continuous and staged contacting processes, gas absorption and stripping, binary distillation, liquid extraction.

Credits 3.0

Prerequisites

CHE 2202

Prerequisite Courses

CHE 2202

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHE 3202: Reactor Design

Principles and methods of chemical kinetics and reactor design. Introduction to heterogeneous systems. Stoichiometry and rate laws for simple and complex reactions, analysis of reaction rates, isothermal reactors, introduction to temperature effects.

Credits 3.0

Prerequisites

CHE 2202

Prerequisite Courses

CHE 2202

Last Offered

Fall 2025, Fall 2024, Spring 2024, Spring 2023

CHE 3301: ChE Applied Mathematics

Application of differential equations, linear algebra and conservation laws to model complex chemical processes (including non-steady state, and multi-dimensional examples).

Credits 3.0

Prerequisites

CHE 3202

Prerequisite Courses

CHE 3202

Last Offered

Spring 2025, Fall 2023, Fall 2022, Fall 2021

CHE 3401: Unit Operations Lab 1

Application of chemical engineering principles to laboratory and pilot scale equipment. Oral and written reporting of results.

Credits 3.0

Prerequisites

CHE 2402

Prerequisite Courses

CHE 2402

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHE 3402: Unit Operations Lab 2

Design and analysis of chemical engineering experiments using laboratory and pilot scale equipment. Oral and written reporting of results.

Credits 3.0

Prerequisites

CHE 3401

Prerequisite Courses

CHE 3401

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHE 4201: Process Design

Application of fundamental principles of chemical engineering to design of industrial chemical processes; use of process simulators (such as AspenTech ASPEN PLUS) for process design.

Credits 3.0

Prerequisites

CHE 3202 and CHE 3201

Prerequisite Courses

CHE 3202

CHE 3201

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHE 4202: Process Controls

Introduction to process control concepts and applications, computer simulation of processes during transient change, real-time and LaPlace domain analysis of controlled systems.

Credits 3.0

Prerequisites

CHE 4201 :Y and CHE 3301 :Y

Prerequisite Courses

CHE 4201

CHE 3301

Last Offered

Spring 2025, Spring 2024, Spring 2023

CHE 4831: Senior Project Studio I

Independent investigation of a chemical engineering problem, under supervision of a faculty advisor, or industry sponsor, including a written comprehensive report. (Nine hours per week of independent study).

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHE 4832: Senior Project Studio II

Continuation of CHE 4831. May include further investigation of same problem or a different topic.

Credits 3.0

Prerequisites

CHE 4831 :D-

Prerequisite Courses

CHE 4831

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHE 5001: Industrial Liq & Sld Waste

Industrial waste management: nature and sources of waste streams, principles underlying chemical and physical treatment methods, case studies of treatment technology.

Credits 3.0

Last Offered

Spring 2024, Spring 2022, Fall 2020, Spring 2019

CHE 5002: Prin of Air Pol Control

Causes, effects and control of air pollution, emphasizing abatement technologies: classification and sources of airborne pollutants, particulate control devices, VOC abatement technologies, NO_x and SO_x abatement, and meteorological effects.

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Spring 2021, Fall 2019

CHE 5032: Equipment Design & Spec.

Equipment design and specification based on theoretical and practical knowledge of unit operations. Analysis and design of several types of process equipment. Mandatory tours of chemical process facilities will be scheduled on Friday afternoons based on student interest.

Credits 3.0

Prerequisites

CHE 3201 and CHE 3202

Prerequisite Courses

CHE 3201

CHE 3202

Last Offered

Spring 2023, Spring 2020, Spring 2019, Spring 2015

CHE 5062: Chemical Engineering Economics

Methods of economic evaluation & decision making, applied to engineering problems. Cost estimation & indexing, time value of money, depreciation, comparison of alternatives.

Credits 3.0

Last Offered

Summer 2020, Fall 2018, Fall 2016, Fall 2014

CHE 5132: Transport Phenomena

Unified study of heat, mass and momentum transport: underlying physical laws, mathematical representation of transport laws, analogies between different transport modes, estimation of transport properties, applications.

Credits 3.0

Prerequisites

CHE 3201

Prerequisite Courses

CHE 3201

Last Offered

Spring 2025, Spring 2023, Spring 2016, Spring 2014

CHE 5133: Brewing Science & Tech

The science in the suds: the course covers the science of malt, hops, and fermentation, flavor chemistry, and the technology of brewing beer. This course requires an understanding of organic chemistry.

Credits 3.0

Prerequisites

CHM 2211

Prerequisite Courses

CHM 2211

Last Offered

Fall 2025, Spring 2024, Fall 2022, Spring 2022

CHE 5232: Industrial Catalytic Processes

Principles and methods of chemical kinetics and reactor design applied to heterogeneous reactive systems of industrial importance: catalysis and catalytic reactors, catalyst deactivation, diffusion effects, design of heterogeneous catalytic and non-catalytic chemical reactors.

Credits 3.0

Prerequisites

CHE 3202

Prerequisite Courses

CHE 3202

Last Offered

Fall 2023, Fall 2021, Fall 2012, Spring 2011

CHE 5332: Special Topics in CHE

Selected topics in chemical engineering: recent developments, new technology, applications of other disciplines to chemical engineering problems. RESTRICTION: Must have Chair's Permission.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CHE 5530: Gene Therapy Methods & Research

Lectures on common cloning methods and DNA sequencing/analysis techniques, along with labs that require students to design/construct a mammalian gene expression plasmid and evaluate it in animal cells.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Fall 2021, Fall 2019

CHE 5532: Intro to Biotechnology

Production of commercially useful materials by living organisms, emphasizing emerging technology: biologically important compounds, their relationships to genetics and metabolic pathways, controlled growth of microbes, separation and purification of products.

Credits 3.0

Last Offered

Spring 2024, Fall 2022, Fall 2021, Fall 2019

CHE 5533: Bioseparations

Factors underlying physical and chemical separations of natural (biological) products: centrifugation and filtration, cell Breakage, precipitation, extraction, adsorption, chromatography and crystallization; process-scale equipment and operations.

Credits 3.0

Last Offered

Spring 2025, Spring 2023, Spring 2022, Spring 2021

CHE 5534: Biomaterials

Materials for use in medicine and in/on the body, material bulk and surface properties, biological responses to materials, applications, manufacturing processes, cost, sterilization, packaging and regulatory issues.

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Fall 2020, Fall 2018

CHE 5535: Bioengineering Lab Techniques

Fundamental concepts of current biotechnology techniques; demonstration and application of laboratory methods encountered in industry or academia, including genetic engineering, bacterial/mammalian cell culture, and protein expression, purification, and characterization.

Credits 3.0

Prerequisites

Last Offered

Spring 2024, Spring 2022, Spring 2020, Fall 2017

CHE 5536: Biochemical Data Analysis

Analysis techniques applied to process biochemical data, including basic R programming, hypothesis testing, regression and ODE modeling, and multivariate statistical data analysis. Practical term projects to analyze literature data using learned techniques.

Credits 3.0

Last Offered

Fall 2025, Fall 2023

CHE 5540: Cellular Engineering

An overview of genome editing, manipulation, and sequencing techniques. Various applications of genetic engineering in microbes, plants, animals, and humans are also discussed.

Credits 3.0

Last Offered

Spring 2025, Spring 2023

CHE 5545: Tissue Engineering

This course introduces students to tissue engineering methods that apply physical, mechanical, and chemical manipulation of materials to direct cell and tissue function. Students will learn about stem cells, material-cell interactions, and problem-solving in biomedical engineering to enhance human health.

Credits 3.0

CHE 5550: Synthetic Biology

Synthetic Biology is the generation of novel biological systems that serve a purpose in society. In this course, you will learn how to use iterative design-build-test-learn cycles to optimize biological systems in a project-focused format with lab and lecture meetings.

Credits 3.0

CHE 5632: Polymer Sci and Engr

Basic principles of polymer science: nature and structure of organic high-polymers, polymerization reactions, physical and chemical properties, mechanical testing, viscoelasticity, flow and processing applications.

Credits 3.0

Prerequisites

CHM 2211 :D-

Prerequisite Courses

CHM 2211

Last Offered

Spring 2024, Fall 2019, Fall 2018, Fall 2017

CHE 5633: Nanomaterials & Surface Scienc

Factors underlying interfacial phenomena and nano-material formation; thermodynamics of surfaces; emulsification, foaming, detergency, nucleation, wetting adhesion, surface films; particle growth, micelles, self-assembled monolayers; unique nanoscale characterization and properties.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Fall 2023, Fall 2021, Fall 2017

CHE 5634: Intro to Material Science

Comprehensive introduction to structure/property relationships of engineering materials; atomic & molecular structure of materials; means to control structure; mechanical behavior; electronic behavior; effects of treatment history on properties; effects of usage conditions on properties; material selection.

Credits 3.0

Last Offered

Spring 2025, Spring 2023, Spring 2022, Spring 2021

CHE 5715: Alternative Energy

Technical, economic, and social evaluations of alternative and sustainable energy sources focusing on liquid fuels as well as other energy sources.

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Fall 2021, Fall 2020

CHE 5720: Petroleum Engineering

Overview of the upstream petroleum industry, including technical aspects of finding, producing and refining petroleum products; issues related to fossil fuel usage; the role of petroleum-based fuels and related products as a key driver in world development.

Credits 3.0

CHE 5725: Carbon Capture and Utilization

This course explores opportunities to reinvent the utility and petrochemical industries to address climate change and decarbonization by learning and applying a suite of new technologies and sustainable engineering practices at a scale that could be commercialized.

Credits 3.0

CHE 5730: Green Engineering

This course explores the application of green engineering principles to process and product design. Green engineering metrics will be a central focus, providing methods to quantify the sustainability and environmental impact of different chemical technologies, processes, and products.

Credits 3.0

CHE 6000: CBE Co-Op

CBE Co-Op is an optional technical elective to be completed with a company for 6 months during a student's final summer and fall semesters. The Co-Op must be chemical engineering-related and provide real world experiences. RESTRICTION: Must have chair's permission.

Credits 6.0

Prerequisites

CHE 3202

Prerequisite Courses

CHE 3202

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

Civil and Environmental Engineering

CEE 1601: Civil Engineering Fundamentals

Introduction to civil engineering, development of analytical experimental, interpretive and field-based skills and procedures for civil engineering; computation and computer methods; professional engineering. Course topics include: maps, ArcGIS, plan sets, surveying, AutoCAD, probability and statistic.

Credits 4.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CEE 2103: Mechanics of Solids

Stress resultants in bodies from tension, compression, shear, flexure, torsion and temperature; stress and strain transformations; combined stresses; load deformation relationships; Euler buckling.

Credits 3.0

Prerequisites

ME 2100 :C- or CEE 2100 :C- or CEE 2105 :C-

Prerequisite Courses

CEE 2100

CEE 2105

Last Offered

Spring 2025, Summer 2024, Spring 2024, Summer 2023

CEE 2105: Mechanics I: Fund. Behavior

Forces & moments; equilibrium of particles and rigid bodies; analysis of trusses; stress & strain; axial deformations; distributed force patterns; centroids & moments of inertia; dry friction; column buckling.

Credits 4.0

Prerequisites

MAT 1505 :D- and (PHY 2400 :D- or PHY 2410 :D-)

Prerequisite Courses

MAT 1505

PHY 2400

PHY 2410

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CEE 2211: Transportation Engineering

Introduction to transportation planning, intermodal transportation systems, roles of government agencies, alternatives analysis, environmental justice and right-of-way process, facility design (alignment, geometrics), operations (capacity, level of service, traffic control, queuing), and air/public/freight/port and future modes of transportation.
Credits 3.0

Prerequisites

(PHY 2400 :D- or PHY 2410 :D-) and CEE 1601 :D-

Prerequisite Courses

PHY 2400

PHY 2410

CEE 1601

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CEE 2301: Environmental Eng. Science

Fundamental physical/chemical/microbiological principles of environmental engineering applications including air and water quality control and soil and groundwater remediation.
Credits 4.0

Prerequisites

CHM 1152 :Y or CHM 1156 :Y

Prerequisite Courses

CHM 1152

CHM 1156

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CEE 2701: CE Project Development

Fundamental topics underlying civil engineering project design and management over the life cycle of a project including engineering economics, cost estimation (including life cycle costs) project management and leadership, project scheduling, and engineering ethics.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CEE 2805: Geology for Engineers

Development and composition of minerals, rocks and soils; geologic structure and deformation of rock masses; weathering, mass wasting, erosion, groundwater, streams, ocean currents and glaciers.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CEE 3107: Mechanics III: Fluid Behavior

Fluid properties; kinematics of particles & flow; conservation of mass, energy and momentum; fluid resistance, boundary layer theory, flow in conduits; lift and drag; turbomachines.

Credits 4.0

Prerequisites

MAT 2500 :D- and (CEE 2100 :D- or CEE 2105 :D-)

Prerequisite Courses

MAT 2500

CEE 2100

CEE 2105

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CEE 3301: Unit Operations/Pro in Env Eng

Analysis of unit operations and processes in environmental engineering including sedimentation, coagulation and flocculation, absorption, filtration, disinfection, oxygen transfer, and activated sludge.

Credits 4.0

Prerequisites

CEE 2301 and CEE 3107 :Y or CEE 3500 :Y

Prerequisite Courses

CEE 2301

CEE 3107

CEE 3500

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CEE 3401: Structural Analysis

Concepts of stability and determinacy; moment area, conjugate beam and energy principles; indeterminate analysis by method of consistent deformation, slope deflection, moment distribution, introduction to analysis software.

Credits 3.0

Prerequisites

CEE 2103 :D- or CEE 2106 :D-

Prerequisite Courses

CEE 2103

CEE 2106

Last Offered

Spring 2025, Spring 2024,

Spring 2023, Spring 2022

CEE 3402: Structural Steel Design

Design of structural steel members using the AISC Manual; Topics include: structural loads; ASD and LRFD design methods; local buckling; design of beams for flexure, shear, and serviceability; compression members; tension members; combined loading. Includes an integrated laboratory component.

Credits 3.0

Prerequisites

CEE 2103 or CEE 2106

Prerequisite Courses

CEE 2103

CEE 2106

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CEE 3507: Hydraulic Egr & Hydrology

Study of open channel flow, hydraulic structures, and principles of hydrology through computational procedures and experimentation.

Credits 4.0

Prerequisites

CEE 3107 or CEE 3500

Prerequisite Courses

CEE 3107

CEE 3500

Last Offered

Spring 2025, Spring 2024,

Spring 2023, Spring 2022

CEE 3601: GIS for Engineers

Basic principles of GIS as applied in civil engineering projects, including planning and design analysis of an interdisciplinary infrastructural project. Topics include data formats, georeferencing, mapping and visualization, site assessment, spatial and 3D analysis, asset management, tool automation, and sustainability.

Credits 3.0

Prerequisites

CEE 1601

Prerequisite Courses

CEE 1601

Last Offered

Spring 2025, Spring 2024,

Spring 2023, Spring 2022

CEE 3602: AutoCAD/Civil 3d for Engineers

Basic principles of AutoCAD and Civil 3D as applied in civil engineering projects, including planning and designing an interdisciplinary infrastructure project. Topics include 2D/3D dimensional drawing and editing layers, dimensioning, viewpoints and scaling, grading, alignments, profiles, surfaces, and quantity takeoffs.

Credits 3.0

Prerequisites

CEE 1601

Prerequisite Courses

CEE 1601

Last Offered

Fall 2025, Spring 2025, Fall

2024, Spring 2024

CEE 3802: Soil Mechanics

Properties of soil as an engineering material, stresses in soil masses, consolidation and settlement, seepage, soil stabilization, and geotechnical testing.

Credits 4.0

Prerequisites

CEE 2103 and CEE 2805

Prerequisite Courses

CEE 2103

CEE 2805

Last Offered

Fall 2025, Fall 2024, Fall 2023,

Fall 2022

CEE 3903: CE Materials

Basic properties of civil engineering materials including steel, Portland cement concrete, asphalt binder and concrete, aggregates, wood, masonry, and composites.

Credits 3.0

Prerequisites

CEE 2103 :Y

Prerequisite Courses

CEE 2103

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CEE 4224: Trans Facilities Design

(CEE Senior Elective)

Engineering applications of transportation design process including design philosophies, environmental impact evaluations, materials design, pavement design, and design of highway, airport, rail facilities. Use of national and state codes and computer-based design software.

Credits 3.0

Prerequisites

CEE 2211 and CEE 3802

Prerequisite Courses

CEE 2211

CEE 3802

Last Offered

Fall 2022, Fall 2018, Fall 2017,
Fall 2016

CEE 4226: Transportation System Design

(CEE Senior Elective and/or Technical or Free Elective)
Engineering applications of transportation design process including design philosophies, elements of systems capacity design, intersections, and interchange design. Use of national and state codes and computer-based design software.

Credits 3.0

Prerequisites

CEE 2211 or CEE 3211

Prerequisite Courses

CEE 2211

Last Offered

Fall 2025, Spring 2025, Fall 2024,
Spring 2024

CEE 4331: Solid & Hazardous Waste

(CEE Senior Elective) Solid waste generation, composition, collection, management and regulations; hazardous waste classification, regulation and management; air pollution control methods.

Credits 3.0

Prerequisites

CEE 3301 :D-

Prerequisite Courses

CEE 3301

Last Offered

Fall 2025, Fall 2023, Fall 2022,
Fall 2021

CEE 4404: Reinforced Concrete Design

Design of reinforced concrete members using ACI 318. Topics include: structural loads, design of flexural members (rectangular beams, t-beams and slabs), shear design, serviceability, column design, and detailing. Includes an integrated laboratory component.

Credits 3.0

Prerequisites

CEE 3401

Prerequisite Courses

CEE 3401

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CEE 4521: Water Resources Egr Design

(CEE Senior Elective) Design fundamentals of hydrology and open channel hydraulics using production-level programs. Topics include design storms, storm water design and open-channel river modeling.

Credits 3.0

Prerequisites

CEE 3507 :D-

Prerequisite Courses

CEE 3507

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CEE 4601: CEE Capstone Design 1

Relationships among planning, design, and construction processes for civil engineering projects. Multidisciplinary team feasibility study, alternatives analysis, and development of a conceptual design in civil engineering. Seminars on professional practice.

Credits 3.0

Prerequisites

CEE 2701 and CEE 3402 :Y or CEE 4226 :Y or CEE 4331 :Y or CEE 4404 :Y or CEE 4521 :Y or CEE 4801 :Y

Prerequisite Courses

CEE 2701
CEE 3402
CEE 4226
CEE 4331
CEE 4404
CEE 4521
CEE 4801

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CEE 4606: CEE Capstone Design 2

Culminating design experience in civil engineering. Written and oral reports on a design project in one or more civil engineering disciplines.

Credits 3.0

Prerequisites

CEE 4601

Prerequisite Courses

CEE 4601

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CEE 4607: Selected Topics in CEE

Specialty class in or independent study on a current engineering topic. Section numbers below 10 are technical electives within the CEE curriculum.

Credits 3.0

Last Offered

Summer 2025, Fall 2023, Summer 2023, Fall 2022

CEE 4609: CEE Special Topics

Specialty class in or independent study on an engineering topic. Civil Engineering with permission of chair.

Credits 1.0

Last Offered

Spring 2024, Spring 2023, Spring 2022, Fall 2019

CEE 4610: Intern'l. Res. Collaboration

Research performed off campus at an international destination. Topic, program, and work plan must be pre-approved. Requires approval of Chair.

Credits 3.0

Last Offered

Fall 2021, Summer 2018

CEE 4612: CEE Undergraduate Research

(Technical Elective) Individual participation in modern analytical or experimental research activities under faculty supervision; required technical report and presentation at end of semester. Consent of department chair required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CEE 4614: Prof Devel Topics in CEE

Specialty class in or independent study on an engineering topic. Civil Engineering with permission of chair.

Credits 3.0

CEE 4702: Construction Engineering

Project documents and processes from procurement through project completion. Topics include: construction methods and equipment, management, planning and scheduling, safety, quality control and assurance.

Credits 3.0

Prerequisites

CEE 2701

Prerequisite Courses

CEE 2701

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CEE 4801: Foundation Design

(CEE Senior Elective) Soil testing, site investigation, design of both shallow and deep foundations.

Credits 3.0

Prerequisites

CEE 3802 :D-

Prerequisite Courses

CEE 3802

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

Classical Studies

CLA 1250: Enemies of Rome

Examination of the growth of the Roman Empire throughout the Mediterranean world, with an emphasis on issues of imperialism and cultural identity.

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Summer 2021, Fall 2020

CLA 1975: Literature and Classics

Survey of ancient and modern classical literature, varying in topic and theme, guiding students in written and oral analysis of themes in texts of the varying genres of epic, tragedy, comedy, novel, short story, film, et al., fulfilling core literature requirement.

Credits 3.0

Last Offered

Spring 2025, Summer 2024,
Spring 2023, Spring 2022

CLA 2021: Language of Science & Medicine

Language of Science and Medicine Greek and Latin prefixes, roots, and suffixes in modern vocabulary; vocabulary building, with emphasis on technical terminology in scientific and medical usage. Knowledge of the languages is not required.

Credits 3.0

Last Offered

Summer 2025, Summer 2024,
Summer 2023, Summer 2022

CLA 2032: Classical Mythology

The myths, legends and folklore of the Greeks and Romans as they developed in their life, thought and literature; their influence on the Renaissance and modern times.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CLA 2051: Cities of Ancient Greece

Classical archaeology and architecture of Greece. Selected sites in the Greek world with emphasis on their architectural, artistic and history significance.

Credits 3.0

Last Offered

Spring 2024, Summer 2022,
Fall 2017, Fall 2014

CLA 2052: Rome: The Ancient City

Classical archaeology and architecture of Italy. Selected sites in the Roman world with emphasis on their architectural, artistic and historical significance.

Credits 3.0

Last Offered

Summer 2025, Summer 2024,
Summer 2023, Fall 2019

CLA 3001: Independent Study

Reading of selected material in Latin or Greek or in classical literature in translation under the direction of a member of the staff.

Credits 3.0

Last Offered

Spring 2017, Spring 2016, Fall 2014, Fall 2012

CLA 3040: Studies in the Classics

Selected themes of special interest. Topics vary according to interests of students and instructor: e.g. Women in the Classical World, Slavery in the Ancient World, Classical Rhetoric, etc.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Summer 2024

CLA 3052: Roman Law

The origins, nature, and history of Roman Law during the Republic and Empire; evolution of the court system; civil and criminal codes; judicial procedure; social, business and economic institutions and the law; government and administration of the empire.

Credits 3.0

CLA 5900: CLA: Independent Study

Supervised study, activity, or research. May be taken more than once. Prior approval of chair and instructor.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

CLA 6001: Senior Classics Capstone

A reading, research, and conference course on selected topics of classical culture and history; introduction to research in classical studies.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GRK 1051: New Testament Greek I

Essentials of the grammar, syntax and vocabulary of the Greek of the New Testament. Reading and writing of simple New Testament Greek.

Credits 5.0

GRK 1052: New Testament Greek II

Essentials of the grammar, syntax and vocabulary of the Greek of the New Testament. Reading and writing of simple New Testament Greek.

Credits 5.0

GRK 111: Introductory Ancient Greek I

The basic forms, syntax and vocabulary of Ancient Attic Greek; selected prose in second semester.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GRK 112: Introductory Ancient Greek II

The basic forms, syntax and vocabulary of Ancient Attic Greek, selected prose in second semester.

Credits 4.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

GRK 1113: Intensive Intro. Ancient Greek

Intensive one-semester course covering all basic skills (grammar, morphology, vocabulary) needed to translate Ancient Greek. Graduate Students (or Undergraduates with permission of Classical Studies' Department Chair).

Credits 3.0

GRK 1121: Intermediate Ancient Greek I

Having reviewed the primary grammar and syntax of Attic Greek, this course will examine selections from several principal prose authors of the classical period (e.g. Herodotus, Plato, Thucydides, et al).

Credits 3.0

Prerequisites

GRK 1111 and GRK 1112

Prerequisite Courses

GRK 1111

GRK 1112

Last Offered

Fall 2022, Fall 2013, Fall 2011, Fall 2009

GRK 1122: Intermediate Ancient Greek II

Credits 3.0

Prerequisites

GRK 1111 and GRK 1112 and GRK 1121

Prerequisite Courses

GRK 1111

GRK 1112

GRK 1121

Last Offered

Spring 2014, Spring 2012

GRK 2001: Readings in Ancient Greek

Selected readings in ancient Greek with a focus on building and strengthening translation skills.

Credits 1.0

Prerequisites

GRK 1111 and GRK 1112

Prerequisite Courses

GRK 1111

GRK 1112

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GRK 3001: Readings in Authors

Selected readings from a variety of Greek authors. Fulfills advanced literature requirements.

Credits 3.0

Last Offered

Spring 2018, Spring 2009, Fall 2008, Spring 2008

GRK 4250: Greek Historians

Selections from the works of Herodotus, Thucydides, or Polybius. Fulfills advanced literature requirements.

Credits 3.0

Last Offered

Spring 2005, Spring 2004, Spring 2003

GRK 4350: Greek Orators

Selected Orations; the style and structure of the speeches, their relations to the historical occasions for which they were composed, and the contribution of rhetoric to the intellectual life of the fourth century.

Credits 3.0

Last Offered

Fall 1997

GRK 4450: Greek Philosophers

Greek philosophical thought and its vehicle, the Greek language, based on the reading of texts in the original.

Credits 3.0

GRK 5250: Homer

Introduction to Homeric Greek and a study of Homeric epics.

Credits 3.0

Last Offered

Fall 2009, Spring 1995

GRK 5850: Greek Tragedy

Selected plays, read and interpreted in the light of contemporary Greek institutions and thought, with attention to their poetic and dramatic structure.

Credits 3.0

GRK 5900: Greek: Independent Study

Supervised study, activity or research. May be taken more than once. Prior approval of chair and instructor.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

GRK 5950: Greek Comedy

Selected plays, read and interpreted in the light of contemporary Greek institutions and thought, with special attention to their poetic and dramatic structure.

Credits 3.0

GRK 6001: Senior Greek Capston

A reading, research, and conference course on selected topics of Greek literature and history; introduction to research in classical studies.

Credits 3.0

LAT 1111: Introductory Latin I

Basic forms, syntax and vocabulary; selected Latin prose in second semester.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

LAT 1112: Introductory Latin II

Basic forms, syntax and vocabulary; selected Latin prose in second semester.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

LAT 1113: Intensive Introductory Latin

Intensive one-semester course covering all basic skills (grammar, morphology, vocabulary) needed to translate Latin.

Credits 3.0

LAT 1121: Intermediate Latin I

Review of Latin syntax; selected readings from prose and poetry.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

LAT 1122: Intermediate Latin II

Review of Latin syntax; selected readings from prose.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

LAT 2031: Intermediate Latin I

Review of Latin syntax; selected readings from prose and poetry.

Credits 3.0

Last Offered

Fall 2004, Fall 2003, Fall 2002,
Fall 2001

LAT 3001: Readings in Authors

Selected readings from a variety of Latin authors.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

LAT 3050: Prose Composition

Practice in the composition of Latin in a variety of styles.

Credits 3.0

LAT 3150: Latin Language

Historical Latin grammar and syntax; the syntax of classical Latin.

Credits 3.0

Last Offered

Fall 2001

LAT 4051: Cicero

Reading of selected orations with special emphasis on the historical background. Selection from rhetorical and philosophical works and letters.

Credits 3.0

Last Offered

Fall 2005, Spring 1997

LAT 4150: Caesar

Reading and interpretation of Julius Caesar's commentaries. Fulfills advance literature requirements.

Credits 3.0

Last Offered

Fall 2002

LAT 4350: Livy

Extensive reading in the Ab Urbe Condita; Livy as historian of Rome.

Credits 3.0

Last Offered

Spring 2001

LAT 4450: Tacitus

Extensive reading in the Annales; Tacitus as historian of the early principate. Fulfills advanced literature requirements.

Credits 3.0

LAT 4550: Suetonius

Reading of the major Lives; Suetonius conception of biography, the historical and literary value of the Lives.

Credits 3.0

LAT 5050: Plautus & Terence

The nature of Roman comedy.

Credits 3.0

Last Offered

Spring 2002, Fall 1998

LAT 5250: Vergil

The Aeneid, read and interpreted in the light of ancient poetical theory and the epic tradition; the civilized epic as a new form; Vergilian epic techniques; careful reading of selections from the Eclogues and Georgics.

Credits 3.0

Last Offered

Fall 2000

LAT 5350: Ovid

Ovid as an epic poet of the Augustan age.

Credits 3.0

Last Offered

Spring 2017, Fall 2004, Fall 1999, Fall 1996

LAT 5450: Horace

Augustan lyric and satire.

Credits 3.0

Last Offered

Fall 2003, Spring 2000, Spring 1999, Fall 1997

LAT 5900: Latin: Independent Study

Supervised study, activity or research. May be taken more than once. Prior approval of chair and instructor.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

LAT 6001: Senior Latin Capstone

A reading, research, and conference course on selected topics of Roman literature and history; introduction to research in classical studies. Fulfills advanced literature requirements.

Credits 3.0

Last Offered

Fall 2010, Fall 2009, Fall 2008, Fall 2007

Cognitive Science

CGS 1000: Intro to Cognitive Science

Introduction to the field of Cognitive Science, the study of cognition and intelligent behavior in humans, animals, and machines. Focus on topics that integrate ideas and methods from multiple disciplines, including psychology, AI, philosophy, neuroscience, anthropology, and linguistics.

Credits 1.0

CGS 2000: Linguistics as a Cognitive Sci

Introduction to key areas of linguistic research and their contributions to cognitive science. Emphasis on morphosyntax, phonetics/phonology, multilingualism, and psycholinguistics.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Fall 2021

CGS 2700: Cognitive Science Research Exp

Supervised research experience focused on Cognitive Science. Supervised research experience focused on Cognitive Science.

Director's Approval needed.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024

CGS 4000: Bilingualism

Examination of cognitive correlates of bilingualism and multilingualism through review of primary psycholinguistic research and hands-on linguistic experimentation. Focus on cross-language transfer, language coactivation, language mixing and immersion effects in language processing.

Credits 3.0

Last Offered

Spring 2022, Spring 2021

CGS 5900: Cognitive Science Seminar

Interdisciplinary seminar focusing on theories, methods, and applications related to the study of intelligent systems.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CGS 5910: Psychology of Language

Processes underlying use of language, including speech perception and production, comprehension of meaning and grammar, and conversational interaction. Draws upon research from psychology, linguistics, computer science, neuroscience, and speech pathology.

Credits 3.0

Prerequisites

Last Offered

Spring 2024, Spring 2022, Spring 2020, Fall 2018

CGS 5950: Ind. Res. in Cognitive Science

Supervised research project and report in a selected area of cognitive science. May be repeated for credit; however, only three hours of research can be applied toward the requirements of the concentration or minor in cognitive science. Prerequisite: Permission of the Director of the Cognitive Science Program.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CGS 5990: Special Topics

Selected topics in Cognitive Science: attention, computational modeling, linguistics, deep learning, embodiment etc.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Spring 2023, Fall 2022

College of Professional Studies

CPS 1001: College & Prof Success Strategies

This course is designed for first-year students within the College of Professional Studies and will lay the groundwork for your success at Villanova and thereafter. In this course you will gain knowledge about Villanova, acclimate to the academic world, and develop a sense of self-awareness to assist you in future endeavors. Class meetings will cover topics of special interest to CPS students. In addition, you will be introduced to valuable student services that will support and contribute to your success.

Credits 1.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CPS 1002: Tech Competency

This course is designed for first-year students within the College of Professional Studies and will provide a framework for readiness and success to adopt, adapt, and apply technology for success at Villanova and thereafter. In this course, you will gain knowledge about various technology platforms that are essential to your success as a college student.

Credits 2.0

Corequisites

CPS 1001

Corequisite Courses

CPS 1001

Last Offered

Fall 2022, Spring 2022, Fall 2021

CPS 1100: RISE Communitas I

The first part of a two-semester sequence for first-year RISE students within the College of Professional Studies. This course is designed to introduce students to Villanova while developing their academic, intra-personal, and professional skills

Credits 2.0

Last Offered

Fall 2025, Fall 2024, Fall 2023

CPS 1101: Science Transfer Lab

Science Transfer Lab.

Credits 1.0

CPS 1103: Science Transfer Lecture

Science Transfer Lecture

Credits 3.0

CPS 1150: RISE Communitas II

The second part of a two-semester sequence for first-year RISE students within the College of Professional Studies. This course is designed to introduce students to Villanova while developing their academic, intra-personal, and professional skills.

Credits 1.0

Last Offered

Spring 2025, Spring 2024

CPS 1200: New Managers Bootcamp

Through this highly interactive bootcamp students will develop and strengthen their management skills, strategic perspective and gain tools to become an effective leader in their organization. Additionally it will afford participants a learning environment where they can expand their personal and professional networks while discussing leadership challenges and strategies with peers

Credits 1.0

Last Offered

Spring 2021, Fall 2020

CPS 3000: Introduction to Project Mgmt

This course will give a true introduction to the practice of project management and how to efficiently and effectively plan, oversee and execute projects in the workplace.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Summer 2023, Summer 2022

CPS 3400: Internship Practicum

Approved semester internship project involving practical application of previously learned knowledge to a business enterprise, government and/or non-profit organization; supervision by both faculty member and corporate/non-profit executive. CPS Only, Director Approval

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

CPS 4400: Internship Practicum

Approved semester internship project involving practical application of previously learned knowledge to a business enterprise, government and/or non-profit organization; supervision by both faculty member and corporate/non-profit executive. Permission of College Required.

Credits 6.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

CPS 5400: Internship Practicum Part 2

Approved second semester internship project involving practical application of previously learned knowledge to a business enterprise, government and/or non-profit organization; supervision by both faculty member and corporate/non-profit executive. Permission of College Required. CPS Only, Director Approval.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

CPS 5900: Foundation in Sales

This course is designed to address the major elements of the entire sales process. This class is designed for those who may pursue a career in sales, entrepreneurs who will need new sales to grow their businesses, current professionals whose duties may expand to include business development. This class will have 1 weekend of live instruction with asynchronous pre and post work.

Credits 3.0

Last Offered

Summer 2022

CPS 5940: Special Topics in Prof Studies

Presentation of selected topics in professional studies. May be repeated for credit if topics are different. Pre-requisites may be imposed depending on the topics.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023

CPS 5950: Special Topics in Professional

Presentation of selected topics in professional studies. May be repeated for credit if topics are different. Pre-requisites may be imposed depending on the topics.

Credits 1.0

Last Offered

Summer 2024

Communication

ASL 111: Intro to Amer Sign Language I

Functional use of American Sign Language for students with no prior knowledge of ASL and Deaf Culture. May fulfill CLAS language requirement (with ASL 112, 1151 and 1152).

Credits 3.0

Corequisites

ASL 1151

Corequisite Courses

ASL 1151

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASL 112: Intro to American Sign Lang II

Continuation of ASL I with increase understanding and knowledge of the ASL through description, classified and facial. Each unit has student/instructor interaction and information on grammar, comprehension and Deaf Culture. May fulfill CLAS language requirement (with ASL 111, 1151 and 1152).

Credits 3.0

Prerequisites

ASL 111

Prerequisite Courses

ASL 111

Corequisites

ASL 1152

Corequisite Courses

ASL 1152

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASL 115: Intro to ASL 1 Lab

Practice lab to accompany ASL 111. May fulfill CLAS language requirement (with ASL 111, 112 and 1152).

Credits 1.0

Corequisites

ASL 111

Corequisite Courses

ASL 111

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ASL 1152: Intro to ASL 2 Lab

Practice lab to accompany ASL 112. May fulfill CLAS language requirement (with ASL 111, 112, and 1151).

Credits 1.0

Corequisites

ASL 112

Corequisite Courses

ASL 112

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 1000: Surv of Communication Studies

Process of communication; range of perspectives from which communication can be studied (from classical rhetoric to contemporary theory); the functions communication serves; and the forms of communication such as interpersonal, small group, organizational, public address, and mass media.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

COM 1100: Public Speaking

Principles of communication related to speech composition and delivery; finding, analyzing, organizing and presenting material in ways appropriate to and effective with diverse audiences.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

COM 1101: Business & Prof Communication

Communication strategies and skills for a variety of business professional settings. Combines public speaking and small group organizational communication, featuring individual and group presentations. Not intended for Communication Department majors.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2021

COM 1102: COM Foundations for Engrs

Technical & professional communication: Oral & visual presentations, including technical reports; formulation/evaluation of data-driven arguments; group communication & listening skills. This course is only for students enrolled in Mechanical Engineering.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 1300: Film Analysis

Methods and perspectives used to analyze visual media drawing on contemporary and historically important films. Historical, theoretical, and aesthetic approaches to film analysis, as well as the social, political and economic forces that influence film content. This course does not fulfill a COM major requirement.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

COM 1400: Introduction to Deaf Studies

Introduces the history, language, culture, artistry, and contemporary life of the American Deaf community from a Communication and interdisciplinary perspective.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 1903: Communication Internship

Supervised work/study program in radio, television, advertising, publicity or public relations.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

COM 1906: Communication Internship

Supervised work/study program in radio, television, advertising, publicity or public relations.

Credits 6.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 1909: Communication Internship

Supervised work/study program in radio, television, advertising, publicity or public relations.

Credits 9.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

COM 1910: Journalism

COM1910 is a 0-credit placeholder for students who are completing an internship for a particular concentration but are not looking to receive course credit for it.

Credits 0.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

COM 1920: Production

com1920 is a 0-credit placeholder for students who are completing an internship for a particular concentration but are not looking to receive course credit for it.

Credits 0.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

COM 1930: PR

COM 1930 is a 0-credit placeholder for students who are completing an internship for a particular concentration but are not looking to receive course credit for it.

Credits 0.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

COM 2200: Theories of Rhetoric

Rhetoric as the process of symbolic creation and recreation of community identity. Theory and history of rhetoric applications to the study of politics, popular culture, speeches, media images, artistic works, advertising, and legal issues.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

COM 2240: Theories of Perform Studies

Exploration of theory surrounding the embodied and aesthetic elements of solo and group performance. Evaluates key approaches to performing literature, performance art, performance for social change, oral traditions, performance ethnography, and performance in everyday life.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

COM 2280: Theories of Persuasion

Presents the theoretical processes by which communication influences the attitudes, beliefs, and behaviors of message recipients. Both rhetorical and social scientific approaches to persuasion are examined. Application is made to the areas of advertising, public relations, politics and health communication.

Credits 3.0

Last Offered

Spring 2025, Spring 2023,
Spring 2022, Spring 2021

COM 2300: Theories of Mass Communication

Traces the evolution and structure of core theoretical approaches to understanding mass communication phenomena. Both behavioral and critical approaches and their related research traditions are explored.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

COM 2340: Theories of Visual Com & Cultu

Introduction to the major theoretical and methodological approaches to the study of images as communicative phenomena. Explores the philosophical and strategic implications of these approaches and applies them both to the analysis and production of visual messages in a variety of media and contexts.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

COM 2400: Theories of Interpersonal Com

Survey of concepts and theories in interpersonal communication. Focuses on dyadic interaction and relationships as created, maintained, and modified through verbal and nonverbal behavior.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

COM 2440: Theories of Organizational Com

Exploration of the relationship between organizational and communication theories. Addresses issues of leadership, structure, culture, decision-making, communication channels, conflict, change, motivation, performance, diversity management, and external communication as they relate to organizations.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

COM 2993: Communication Internship

Supervised work/study program in radio, television, advertising, publicity or public relations.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

COM 2996: Communication Internship

More intensive, in depth work/study/program in radio, television, advertising, publicity or public relations.

Credits 6.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

COM 3201: Rhetoric & Social Justice

Examination of public discourse surrounding issues in social justice and human rights. Through traditional and contemporary rhetorical theory, rhetorical strategies are traced through contemporary movements.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

COM 3203: Communication Law & Policy

Constitutional, statutory, and case law as well as other public policies affecting communication professions. Surveys a wide-range of issues related to the First Amendment, access, broadcasting, commercial speech, copyright, defamation, obscenity, political speech and privacy.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2024, Spring 2021, Fall
2018, Fall 2017

COM 3204: Rhetoric and Democracy

An upper-level course in which students study important rhetorical artifacts and theoretical perspectives to come to understand important ways that rhetoric has served and sometimes disserved democracy. The specific focus of the course will change according to the instructor and the semester taught. (Pre-requisites will be waived when the course is offered for the Study Abroad in Greece program). Instructor's permission needed to waive pre-requisites.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Summer 2023, Summer 2019,
Summer 2018, Summer 2016

COM 3206: Argumentation & Advocacy

Argumentation theory and practice, emphasizing the construction of well-reasoned arguments and attacks/defense of arguments in a variety of contexts in which argument can be used in the interest of advocacy.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2009, Spring 2006

COM 3207: African American Rhetoric

The symbolic construction of African American identity in the United States through an analysis of speeches, films, television and other media. (Pre-requisites will be waived for Africana Studies concentrators or minors).

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2025, Fall 2020, Fall 2019

COM 3208: Rhetoric and Myth

The relationship among rhetoric, myth, and culture with attention paid to the forces that shape mythic consciousness in culture(s). The focus of the course will vary according to instructor and semester the course is taught. (Pre-requisites will be waived when offered for the study abroad in Greece program or instructor's permission).

Credits 3.0

Prerequisites

COM 2240 or COM 2280 or
COM 2340 or COM 2200 or
COM 2300 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2240
COM 2280
COM 2340
COM 2200
COM 2300
COM 2400
COM 2440

Last Offered

Summer 2025, Summer 2024,
Summer 2023, Summer 2022

COM 3209: Rhetorics of Race

Explores the rhetorical constructions, through language, visual, and material artifacts, of racialized identities and publics. Focus on rhetorical theories that explore and challenge these constructions.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2022

COM 3212: Rhetoric of Conspiracy Theories

Explores the relationships that have the most consequences for us. Examines ways to rework relational dilemmas, collisions through dialogue, and generate effective communicative strategies.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Summer 2024, Fall 2023,
Summer 2023

COM 3240: Performance for Social Change

Performance as a powerful medium of art and art as a powerful tool for social change. Studying established performance artists and creating original performance pieces, students address social issues through various modes of performance.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2340 or COM 2280 or COM 2300 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

Last Offered

Spring 2025, Spring 2023, Fall 2019, Spring 2017

COM 3241: Performance of Literature

Solo and group performance of poetry, prose, and drama. Focus on rhetorical power of performed literature. Combines elements of theatre, literature and communication.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2400 or COM 2280 or COM 2300 or COM 2340 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2400
COM 2280
COM 2300
COM 2340
COM 2440

Last Offered

Fall 2023, Spring 2020, Fall 2017, Spring 2016

COM 3243: Performance Art

Introduction to performance art, a highly diverse theatrical art form that has gained popularity in American and European performance since the 1960s. Analysis of well-known performance artists as well as creation and performance of original student pieces. Emphasis on relationships among language, visual arts, music and dance; the construction and expression of self and identity through performance; and the relationship of performance to rhetoric and social change. Previous performance experience a bonus but not required.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2340 or COM 2280 or COM 2300 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

Last Offered

Spring 2024, Fall 2023, Fall 2015

COM 3246: Performance of Greek Lit

Students analyze and perform both ancient and contemporary Greek literary texts; the performances, both solo and group are at Greek archaeological sites based on Greek oral traditions, poetry and drama, such as from Homer, Sappho, Antigone and Medea. THIS COURSE IS ONLY OFFERED IN THE SUMMER STUDY ABROAD IN GREECE PROGRAM.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Summer 2025, Summer 2024, Summer 2022, Summer 2017

COM 3247: Storytelling

Focus on story craft, form and practice. May include sound stories, image stories, performance, personal narrative, oral history, nonfiction. Attention on how to use stories for personal and social change.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2340 or COM 2280 or COM 2300 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

Last Offered

Fall 2024, Spring 2022, Fall 2020

COM 3248: Performance Ethnography

Explores ethnographic and autoethnographic performance as an artistic tool to make discoveries about our world. Uses methods such as interviewing, participant observation fieldwork, and self-reflection to create original performance that challenge ideas of "self" and "other".

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Fall 2021

COM 3249: Performance & Intersectionality

Practice of the embodied and aesthetic elements of intersectional thought. Examine artistic and methodological innovations in global feminisms, queer thought, decolonial praxis, and transformative arts-based traditions.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2340 or COM 2280 or COM 2300 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

COM 3290: Special Topics in Rhetoric

Topic or problem in the Rhetoric & Performance area of communication selected by the instructor.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2024, Spring 2023, Fall 2022, Fall 2021

COM 3291: Spec Top in Performance

Special Topic in Performance.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2024, Spring 2024, Fall 2022

COM 3301: Intro to Film & Video Prod

In-studio workshop that deals with basic television production techniques, including producing and directing short interview programs, news, demonstrations and short dramatic pieces. Discussion of current problems in the management and operation of a television broadcasting station.

Credits 3.0

Prerequisites

COM 2280 or COM 2300 or COM 2340 or COM 2200 or COM 2240 or COM 2400 or COM 2440

Prerequisite Courses

COM 2280
COM 2300
COM 2340
COM 2200
COM 2240
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 3302: Advanced Film & Video Prod

Visual aspects of location single camera video productions, audio acquisition, lighting, post production support, video editing and digital effects and finished distribution. Each student will work as producer, director, cameraman, editor and writer. Helps students understand the world of film and video funding, production and distribution.

Credits 3.0

Prerequisites

COM 3301

Prerequisite Courses

COM 3301

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

COM 3303: Screenwriting

Development of narrative strategies through improvisation and techniques of mediated visualization using video.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440 and COM 1300

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440
COM 1300

Last Offered

Spring 2025, Fall 2024, Spring 2024, Spring 2023

COM 3304: Documentary Theory & Practice

A study of the documentary as art, propaganda, social document, and instrument for social change. After a review of theory and work in documentary, students develop their own short works. For COM majors who have taken COM 3600, this course counts as a Free Elective. For COM majors who have not taken COM 3600, this course counts as a COM 3000-level course.

Credits 3.0

Prerequisites **Last Offered**

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

COM 3305: Radio Broadcasting

Is a vital medium, which needs imagination and innovation to continue to attract wide and diverse audiences. This hands-on course will explore: the business of radio/streaming; creative writing, presentation for news, music, and podcasting; live broadcasting; and studio skills.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

COM 3306: Audio Production

Hands-on studio course serves as introduction to the history, fundamentals and methods of audio production used in radio, television and recording studios. Students learn, identify and operate different aspects of audio production hardware such as microphones, mixing boards, and digital multi-track recorders. Students will complete in-studio or remote recording projects for evaluation.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Fall 2019, Spring
2018, Fall 2007

COM 3308: Digital Image Production

This hands-on workshop introduces to the fundamentals of using digital images to communicate specific information. Students produce still and moving images for use in public relations, advertising, photojournalism, and electronic or web-based publication.

Credits 3.0

Prerequisites

(COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440)

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

COM 3321: Interactive Media Design

Study of the principles of creating effective communication for the World Wide Web. Explores basic web design techniques with emphasis on designing and integrating diverse media elements. Focus on the creation and manipulation of text, graphics, audio and video for the Web.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 3340: Film History

Evolution of film as an art form; includes the impact of technology.

Credits 3.0

Prerequisites

COM 1300 and COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 1300
COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

COM 3341: Gender and Film

This course attends to the role of cinematic images in the cultural production of gender in contemporary societies. Students analyze images of gender in a variety of films, as well as the work of film makers who have been marginalized because of gender. This analysis of specific films is grounded in course readings taken from primary sources in feminist film theory and criticism, gender theory and media studies. Students will have the opportunity to propose and explore analytic, creative, and/or theoretical projects within the purview of the course theme. Outside viewing required. (Pre-requisites will be waived for Women's Studies concentrators or minors).

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Summer 2025, Spring 2025, Fall 2020, Fall 2019

COM 3342: International Cinema

Study of the film of or about a particular country with emphasis on political, social, cultural and artistic issues.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2400 or COM 2440 or
COM 2340

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2400
COM 2440
COM 2340

Last Offered

Spring 2021, Spring 2020, Fall
2017, Fall 2016

COM 3343: Contemporary Cinema

Seminar course in which various strategies are applied to the analysis of contemporary films.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2025, Fall
2023, Fall 2022

COM 3351: Media & Society

Structure and content of the major media industries in America (radio, television, film, newspapers, magazines, recordings, and books), and how each interacts with individuals, groups, and institutions. Students analyze and critique media systems and content in terms of social, legal, political, and economics forces that influence them.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2025, Spring 2022,
Spring 2021, Spring 2020

COM 3352: Media & Technology

Surveys the development of communication technologies from the printing press through the internet and beyond.

Technological development will be used as a way to explore critical issues about economic development, the nature of meaning, technological determinism and globalization.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2021, Spring 2020, Spring
2017, Spring 2015

COM 3353: Media & Politics

Examination of political communication research, theory and history. A particular focus on the role of media, such as advertising and news reporting on political campaigns and policymaking.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2024, Fall 2022, Fall 2020, Fall 2019

COM 3354: Media Criticism

Analysis of contemporary film, television, music, print media and electronic media from a cultural studies perspective.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2024, Spring 2023, Fall 2021, Fall 2019

COM 3356: Media Audiences

Introduction to the study, measurement and analysis of media audiences, merging theoretical approaches with applied methods for understanding user behavior.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

COM 3357: Critical Approaches to Advertising

Focuses primarily on commercial advertising, teaches us to examine and critique the consumerist logic of advertising culture and understand how that logic is a byproduct of a capitalist system that values profit/commodity/wealth over democracy, equality, and collective rights.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2340 or COM 2280 or COM 2300 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

Last Offered

Fall 2024, Spring 2024

COM 3360: Introduction to Journalism

News is an integral part of our lives. This course aims to provide a critical understanding of the role of journalism in modern society, combining theoretical perspectives on the making of news with insights from the journalists, broadcasters and editors who produce it. Students will analyze research material on journalism in the press, as well as examining newsmaking on television and on the internet.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

COM 3363: Broadcast Journalism

Styles and techniques of broadcast journalism performance, including studio and location reporting and interviewing. Historical and contemporary trends in broadcast journalism explored.

Credits 3.0

Prerequisites

COM 3360

Prerequisite Courses

COM 3360

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

COM 3365: Sports Journalism

Evolution and current trends in sports journalism, emerging platforms and technologies, reporting with social media, developing source relationships, competing with your sources, working with media relations, developing written and oral reporting skills, anchor-analyst and sports-talk formats.

Credits 3.0

Prerequisites

COM 3360

Prerequisite Courses

COM 3360

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

COM 3366: Multimedia Journalism

Students learn to write across media platforms, create integrated news packages, and maintain strong journalistic principles, techniques and ethics.

Credits 3.0

Prerequisites

COM 3360

Prerequisite Courses

COM 3360

Last Offered

Spring 2025, Fall 2022, Fall 2020, Fall 2019

COM 3367: Journalism Topics

Rotating topics in journalism. Each offering will give students in-depth exposure to a particular area of journalism, taught by a foremost expert in that area.

Credits 3.0

Prerequisites

COM 3360

Prerequisite Courses

COM 3360

Last Offered

Fall 2024, Fall 2023, Fall 2021, Spring 2020

COM 3368: Feature Writing

Longform articles remain a staple in journalism, and this course will show students how to explore topics in broader contexts. They will learn advanced reporting, interviewing and storytelling techniques so they can create more expansive news and feature accounts.

Credits 3.0

Prerequisites

COM 3360

Prerequisite Courses

COM 3360

Last Offered

Fall 2025

COM 3390: Spec Top in Media Studies

Topic or problem in the Media & Film area of communication selected by the instructor.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Spring 2023

COM 3391: Spec Top Media Production

Special Topics - Media Production

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Fall 2022

COM 3401: Relational COM Studies

Explores everyday communication between people across many contexts. Critical examination of the personal, social, and cultural dimensions of human relationships. Experiential activities augment lectures/discussions.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Fall 2022, Spring
2022, Spring 2021

COM 3402: Family Communication

Explores the relationships that have the most consequences for us. Examines ways to rework relational dilemmas, collisions through dialogue, and generate effective communicative strategies.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2024, Fall 2022, Fall 2021,
Fall 2020

COM 3403: Intercultural Communication

The impact on culture of communication styles, and practices. The role of communication in personal and professional intercultural relationships.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2024, Spring 2023, Fall
2020, Fall 2019

COM 3404: Communication & Conflict

Communicative elements of conflict that arise out of personal and cultural differences in a variety of interpersonal interactions and relationships.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2024, Fall 2023, Fall 2022,
Spring 2022

COM 3405: Health Communication

The role of communication in constructing the health beliefs of individuals, interactions between providers and patients, cultural dimensions of dyadic and team encounters, mediated health messages and strategic public health campaigns.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2280 or COM 2300 or
COM 2340 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2025, Spring 2023, Fall
2011, Spring 2010

COM 3406: Gender & Communication

Communication of women and men against the backdrop of society and feminism in such communicative contexts as families, schools, friendships and relationships, organizations, media, and technology. (Pre-requisites will be waived for Gender & Women's Studies concentrators or minors).

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2023, Summer 2022, Summer 2021, Summer 2020

COM 3409: Social Identity Perspectives

Students will learn about social identity theories and perspectives, the connections between personal and social identities; socialization and cultural norms, intergroup competition, prejudice, and bias; and intergroup contact, cooperation, and equity.

Credits 3.0

COM 3442: Team Based Communication

Theory and practice of communication for idea generation and problem-solving in groups, teams, and in other multiple contexts.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Spring 2023, Spring 2021, Fall 2018, Fall 2017

COM 3443: Work Life Negotiation

Explores the increasingly blurred intersections of "public" work and "private" lives

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2340 or COM 2280 or COM 2300 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

Last Offered

Fall 2025, Fall 2024, Fall 2022, Fall 2021

COM 3444: Interviewing

Theory and practice of methods in selected interview settings: informational, employment, and persuasive. Emphasis on communication between two persons, questioning techniques, and the logical and cultural bases of organizational persuasion.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2023, Fall 2019, Spring 2018, Spring 2016

COM 3445: COM Consulting in Organization

Course explores theory and practice of communication consulting through a variety of case studies in the field of organizational/corporate communication. Students will be expected to work as part of a consulting team for part of the semester.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2022, Fall 2018, Spring 2017, Spring 2016

COM 3446: Space, Time & Tech in Organiz.

Considers individuals' experiences of organizational spaces, time, and technologies across diverse social, cultural, and historical contexts. Examines how workplace designs (Facebook's new Menlo Park building), pace of life (shrinking vacation time), and technologies (audio-video conferencing tools) influence organizational communication processes.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2340 or COM 2280 or COM 2300 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

Last Offered

Fall 2025

COM 3448: Leadership

Introduces scholarship addressing injustice and misunderstanding in America. Students will develop a dialogic perspective and a set of skills as one means of transforming themselves and their community.

Credits 3.0

Last Offered

Spring 2021, Spring 2020, Spring 2019, Fall 2017

COM 3449: Applied Topics in Organization

Examines current events, social issues, and relevant topics through an organizational communication lens. Exploring a particular topic or theme, students employ organizational communication theories and approaches to consider how a chosen issue is organized, complicated, and even resolved through communication.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2340 or COM 2280 or COM 2300 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

COM 3450: Sexual Violence in Org

Utilizes organizational theories and perspectives to examine violence as a material and symbolic structural process before employing organizational communication theories and approaches to consider how sexual violence is organized, perpetuated, complicated, and resolved through communication.

Credits 3.0

Last Offered

Spring 2025, Spring 2002

COM 3460: Public Relations

Provides a foundation for students interested in the field of public relations. It chronicles the development of the profession from its earliest beginnings to its role in modern management. Also attempts to bridge the gap that exists between theory and practice. It achieves this by emphasizing the fundamental management perspective of the profession and the persuasive intent of message construction while highlighting the four essential skills required for success in the industry - research, writing, planning and problem solving.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

COM 3461: Advertising

Strategies and techniques used in contemporary American advertising: consumer behavior, market research and analysis, message development for print and broadcast, and media selection.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or COM 2280 or COM 2300 or COM 2340 or COM 2400 or COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2280
COM 2300
COM 2340
COM 2400
COM 2440

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

COM 3462: Public Relations Writing

Offers students the foundation for producing a variety of written public relations materials. Structure includes an overview of the journalistic style of writing along with extensive practice in writing fundamentals. Following the work on enhancing writing skills, students will develop a variety of pieces for their portfolios. Final class products include print news releases, position papers, feature stories, media advisories, media kit, and other related assignments. Course is strongly recommended for students interested in public relations, advertising, marketing, and organizational communication.

Credits 3.0

Prerequisites

COM 3460

Prerequisite Courses

COM 3460

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 3465: SpecTop in PR & Advertising

Topic or problem in the PR & Advertising area of communication selected by the instructor.

Credits 3.0

Prerequisites

COM 2200 or COM 2240 or
COM 2340 or COM 2280 or
COM 2300 or COM 2400 or
COM 2440

Prerequisite Courses

COM 2200
COM 2240
COM 2340
COM 2280
COM 2300
COM 2400
COM 2440

Last Offered

Spring 2025, Fall 2024

COM 3490: SpTopIntrpersonalIntercultural

Topic or problem in the interpersonal/intercultural area of communication selected by the instructor.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring
2024, Fall 2023

COM 3600: Social Justice Documentary

Students will work together to create a documentary film that examines a social justice issue. Only three credits counts toward the COM major/minor, and the other three are free electives. If taken twice, six credits count towards free electives.

Credits 6.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

COM 3993: WFI Internship

WFI Internship Permission of director is required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

COM 4001: Qualitative Research in COM

Review of basis principles of critical inquiry in the interpretive paradigm. Reading and designing qualitative research in communication through gathering and critically analyzing literature in the field and proposing an original study. Methods include ethnography and textual analysis.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Spring 2025, Fall
2024, Summer 2024

COM 4002: Quantitative Research in COM

Review of basic principles of scientific inquiry in the empirical paradigm. Reading and designing quantitative research in communication through gathering and critically analyzing literature in the field and proposing an original study. Methods include experiments and surveys.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

COM 5050: Senior Project

Design, implementation, and presentation of a group research project in which students apply the knowledge and skills learned through the Communication program of study to the investigation of rhetorical or communication phenomena.

Credits 3.0

Prerequisites

COM 4001 or COM 4002

Prerequisite Courses

COM 4001
COM 4002

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

COM 5100: Directed Study

Supervised project culminating in term paper.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

COM 5200: Topics

Intensive workshops in selected areas of professional development or communication research.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 5300: Dialogue Identity & Social Justice

Strategically topic to increase understanding of self, others, facilitated dialogue on a specific identity systemic (in)equity, (in)justice, and their own agency to enact change. Individuals learn skills to engage in honest and dignifying conversations as they build relationships and community.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 5464: Public Relations Campaigns

Course explores a variety of case studies in the field of public relations including examples in media relations, crisis communication and planning. Following the review of cases, student groups will develop a professional campaign and present the campaign.

Credits 3.0

Prerequisites

COM 3462 and (COM 4001 or COM 4002)

Prerequisite Courses

COM 3462

COM 4001

COM 4002

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COM 5600: Special Topics in Production

One-Credit Workshops in areas of media and multimedia production. Course may be repeated six times

Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

Comprehensive Science

SCI 1903: Internship Elective

Permission of Program Director. Junior or senior Comprehensive Science students with a 3.0 QPA only.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

SCI 1906: Internship Elective

Permission of Program Director. Junior or senior Comprehensive Science students with a 3.0 QPA only.

Credits 6.0

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

SCI 2993: Internship Elective

Permission of Program Director. Junior or senior Comprehensive science students with 3.0 QPA only.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

SCI 2996: Internship Elective

Permission of Program Director. Junior or senior Comprehensive Science students with a 3.0 QPA only.
Credits 6.0

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

SCI 5300: Capstone Seminar

Selected topics with an interdisciplinary/multidisciplinary science viewpoint; reading of primary literature, secondary literature, and/or selected experiments; students oral and written presentations and discussions.
Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SCI 5900: Independent Research

Supervised study, activity or research with interdisciplinary or multidisciplinary content. Prior approval of director and instructor.
Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

Computing Sciences

Chair: Daniel Joyce, Ph.D.
Office Location: Mendel

Science Center Rm. 161
Telephone: (610) 519-7307
[Website](#)

About

The Department of Computing Sciences seeks to provide outstanding education, to advance scholarship, and to engage in activities that benefit society as a whole, in accordance to the University mission. The Department aims to equip students with a solid foundation in computing theory, and to prepare them for lifelong independent learning and innovative thinking in a constantly changing discipline. Its faculty members strive to maintain professional currency, and to involve students and colleagues in their research investigations. These endeavors support the University mission to transmit, pursue, and discover knowledge in an atmosphere of collegiality in the university community. Supported by a liberal arts education, the Department seeks to develop the total person, sensitive to social and ethical concerns affected by the computing discipline, and committed to addressing the needs of a diverse and interconnected modern society.

CSC 1010: Programming for All

Programming fundamentals using the Python programming language: data, variables, selection, loops, arrays, input/output, basic graphics and functions. Object-oriented design: encapsulation, objects, classes and methods.
Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CSC 1020: Computing and the Web

Information representation and manipulation; file systems and directories; compatibility and data exchange; security and privacy; elements of computer architectures and operating systems; computer networks, the Internet, and the World Wide Web; web site design principles and creation; PC-based examples and illustrations.
Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CSC 1035: Databases for Many Majors

No background in computing necessary. Design and implementation of your own database as a group project. Cooperative learning techniques to demystify key concepts: the relational model, normalization, the Entity-Relationship model and SQL.
Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CSC 1040: Computing with Images

Computing systems as tools for designing and publishing graphically rich material in many forms; image processing techniques and systems; image style and related tools; digital image processing theory; computational complexity; multimedia presentations.
Credits 3.0

Last Offered

Spring 2022, Spring 2021,
Spring 2020, Spring 2019

CSC 1051: Algorithms & Data Struc I

Object-oriented design: objects, classes, methods, encapsulation; programming fundamentals: data, variables, selection, loops, arrays, input/output; exceptions.
EXCLUSION: This course may not be taken by students who have already taken and passed ECE 1620.
Credits 4.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

CSC 1052: Algorithms & Data Struc II

Object-oriented design: inheritance, interfaces, polymorphism; problem analysis; recursion; abstract data types; dynamically linked structures; data structures: stacks, queues, lists, collections, trees, maps, priority queues, library collections framework.
Credits 4.0

Prerequisites

CSC 1051 :C or CSC 2014 :C

Prerequisite Courses

CSC 1051

CSC 2014

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

CSC 1300: Discrete Structures

Mathematical structures that support computer science: sets, matrices, trees, graphs, logic and proof, mathematical induction, relations, functions, sequences, summations, and elementary combinatorics.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

CSC 1700: Analysis of Algorithms

Efficiency classifications and mathematical analysis of recursive and nonrecursive algorithms; design techniques: brute force, greedy, divide-and-conquer, dynamic programming, backtracking, branch-and-bound, space and time tradeoffs; NP-completeness; approximation algorithms; computational problems: sorting, searching, string processing, graphs, arithmetic, linear algebra.

Credits 3.0

Prerequisites

(CSC 1300 or MAT 2600) and
(CSC 1052 or ECE 2620 or ECE 2160)

Prerequisite Courses

CSC 1300

MAT 2600

CSC 1052

ECE 2620

ECE 2160

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

CSC 1800: Organ of Prog Languages

High level language features: data types, control structures; formal lexical and syntactical analysis; operational semantics; language translation.

Credits 3.0

Prerequisites

(CSC 1300 or MAT 2600) and (CSC 1052 or ECE 2620 or ECE 2160)

Prerequisite Courses

CSC 1300

MAT 2600

CSC 1052

ECE 2620

ECE 2160

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CSC 1990: Enrichment Sem in Computing

Skills for success in computing: research questions and methodologies, oral and written presentation techniques, argumentation and critical thinking, time and project management strategies, study skills.

Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CSC 2000: Digital Divide, Theory & Praxis

Students will research the effects of the digital divide and implement a program that addresses the needs of underserved high school students preparing for their transition to college.

Credits 1.0

Prerequisites

CSC 1990

Prerequisite Courses

CSC 1990

Last Offered

Spring 2021

CSC 2014: Java Bootcamp

Fast-paced coverage of object-oriented programming using Java and the Java API, including packages for creating graphics and applets; Java syntax and control structures; arrays; designing objects, classes, and methods; graphical user interfaces; input streams, exception handling and threads.

Credits 1.0

Prerequisites

CSC 1010 or ECE 1620 or MIS 2020

Prerequisite Courses

CSC 1010

ECE 1620

MIS 2020

Last Offered

Fall 2023, Fall 2022, Spring 2022, Fall 2021

CSC 2045: AI for All

History of artificial intelligence. Principles of machine learning and training set development. Overview of natural language understanding technology and computer vision technology. Social and ethical issues. Survey of software tools for implementing artificial intelligence. For non-computer science/engineering majors.

Credits 3.0

Prerequisites

CSC 1010

Prerequisite Courses

CSC 1010

CSC 2053: Platform Based Computing

Python APIs, internet programming and security, mobile app programming, a team project.

Credits 3.0

Prerequisites

CSC 1052 or ECE 2620 or (ECE 2160 and ECE 2161)

Prerequisite Courses

CSC 1052

ECE 2620

ECE 2160

ECE 2161

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CSC 2300: Statistics for Computing

Probability, counting, discrete and continuous distributions, descriptive and inferential statistics, experimentation, reading of scientific papers -- all taught from the point of view of computer science. Some programming may be required.

Credits 3.0

Prerequisites

CSC 1051 and CSC 1300

Prerequisite Courses

CSC 1051

CSC 1300

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CSC 2400: Computer Systems I

Architecture of computer systems: representation of data; processor, memory and I/O organization. Assembly language programming. C programming language constructs and their relationship to the underlying architecture. Basics of operating systems: interrupts, concurrency, process scheduling, security, networking.

Credits 3.0

Prerequisites

CSC 1052 and (CSC 1300 or
MAT 2600)

Prerequisite Courses

CSC 1052

CSC 1300

MAT 2600

Last Offered

Fall 2025, Fall 2024, Summer
2024, Fall 2023

CSC 2405: Computer Systems II

Processes, threads and concurrent programming. Scheduling and dispatching. Linking and relocation. Memory management. Virtual memory. System-level I/O Device management. File systems. Security and protection in depth. Real-time and embedded systems. System performance evaluation. Scripting.

Credits 3.0

Prerequisites

CSC 2400

Prerequisite Courses

CSC 2400

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CSC 2993: Internship in Computing

Internship in computer science involving computer system development, maintenance, or evaluation in an environment which supports sound software engineering techniques. Restricted to second semester sophomore with junior standing and above.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

CSC 3010: Overview of Cybersecurity

Exploration of the basic concepts and terminology in cybersecurity for students from a variety of technical or non-technical backgrounds; major sub-disciplines of cybersecurity; impact of cybersecurity on business, ethical, and technical levels; data protection concepts, privacy, and intellectual property; data protection techniques, encryption, and authentication; security in wired and wireless networks, operating systems, applications, databases, and the cloud; ethical hacking and vulnerability management; lab exercises and case studies to introduce technical concepts; prepares students to study cybersecurity in-depth in future coursework; course is the introductory required course for a minor in cybersecurity.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

CSC 3080: Info Security & Protection

Explores the criticality of protecting information's availability, accuracy, authenticity, confidentiality, and integrity. Analysis of topics to include redundancy, backup and recovery, business continuity, security technologies, and controls such as audit, change management and testing.

Credits 3.0

Prerequisites

CSC 2400 or ECE 2042

Prerequisite Courses

CSC 2400

ECE 2042

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CSC 3150: Game Development

Theory of game development, game programming, artificial intelligence, state machines, 2D/3D assets, visual communication, game mechanics, navigation meshes, path planning.

Credits 3.0

Prerequisites

CSC 1052 or ECE 2620 or (ECE 2160 and ECE 2161)

Prerequisite Courses

CSC 1052

ECE 2620

ECE 2160

ECE 2161

Last Offered

Fall 2025, Fall 2024, Spring 2019, Spring 2017

CSC 3300: Linear Algebra for Computing

Fields, vectors and vector spaces, linear transformations, matrices and matrix algebra, eigenvalues and eigenvectors; Structures and computations in Python for these mathematical objects; Computational applications selected from data science, machine learning, computer vision, graphics, image processing, graph algorithms, quantum computing, information retrieval and web search.

Credits 4.0

Prerequisites

CSC 1300

Prerequisite Courses

CSC 1300

Last Offered

Spring 2021, Spring 2020,
Spring 2019, Spring 2018

CSC 4170: Theory of Computation

Finite automata and regular expressions; push down automata and context-free grammars; Turing machines; Church's thesis; computability; NP-completeness.

Credits 3.0

Prerequisites

CSC 1700 :Y :D-

Prerequisite Courses

CSC 1700

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CSC 4181: Compiler Construction

Lexical and syntactical analysis; code generation; error recovery; recursive descent compilation; handling of run-time environment.

Credits 3.0

Prerequisites

CSC 2400 or ECE 2042

Prerequisite Courses

CSC 2400

ECE 2042

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CSC 4300: Computer Graphics

Hardware and software in computer graphics; graphics programming language; input/output device handling; modeling in 3D space; development of interactive software.

Credits 3.0

Prerequisites

CSC 1052 :D- and MAT 2400

Prerequisite Courses

CSC 1052

MAT 2400

Last Offered

Fall 2025, Fall 2023, Fall 2021,
Fall 2019

CSC 4450: Digital Forensics

In-depth study of digital evidence presentation, digital forensic techniques, and data analysis. Password cracking, encryption/decryption, volatile data extraction and network forensics of advanced forensic tools, legal and ethical issues related to forensics and security management techniques.

Credits 3.0

Prerequisites

CSC 2400 or ECE 2042

Prerequisite Courses

CSC 2400

ECE 2042

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CSC 4480: Principles of Database Systems

Concepts and technology of database management systems and data modeling with an emphasis on the relational model; database querying and normalization; physical data organization. A group project to design and implement a database is a key aspect of this course.

Credits 3.0

Prerequisites

(CSC 1051 or ECE 1620 or ECE 1260) and (CSC 1300 or MAT 2600)

Prerequisite Courses

CSC 1051

ECE 1620

ECE 1260

CSC 1300

MAT 2600

Corequisites

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CSC 4500: Artificial Intelligence

History of AI, what it is and isn't; the nature of intelligence and the question of its computer implementation; search algorithms; knowledge representation; automated deduction; machine perception techniques; machine learning; planning; problem solving.

Credits 3.0

Prerequisites

CSC 1051 or ECE 1620 or (ECE 1260 and ECE 1261)

Prerequisite Courses

CSC 1051

ECE 1620

ECE 1260

ECE 1261

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CSC 4505: Applied Machine Learning

Introduction to machine learning through Python based projects; machine learning tools; supervised and unsupervised learning algorithms and modeling accuracy, bias, and overfitting issues.

Credits 3.0

Prerequisites

(CSC 1052 or ECE 2620) and (CSC 1300 or MAT 2600) and (CSC 2300 or MAT 4310 or STAT 4310) and MAT 2400

Prerequisite Courses

CSC 1052

ECE 2620

CSC 1300

MAT 2600

CSC 2300

MAT 4310

STAT 4310

MAT 2400

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CSC 4510: Machine Learn&Theory&Evolution

The mathematical theory behind the design of software by detecting and extrapolating pattern; neural systems that adapt to new circumstances; decision tree induction; genetic algorithms and genetic programming; research foundations.

Credits 3.0

Prerequisites

CSC 1700 and (CSC 2300 or MAT 4310 or STAT 4310) and MAT 2400

Prerequisite Courses

CSC 1700

CSC 2300

MAT 4310

STAT 4310

MAT 2400

Last Offered

Fall 2019, Fall 2018, Fall 2017, Fall 2016

CSC 4550: Computing for Data Science

The computing parts of the interdisciplinary subject, Data Science. Topics include: data cleaning, data wrangling, visualization, time series, machine learning fundamentals. Program libraries that support managing datasets. Students will complete a major project.

Credits 3.0

Prerequisites

(CSC 1300 or MAT 2600) and (CSC 1052 or ECE 2620 or ECE 2160)

Prerequisite Courses

CSC 1300
MAT 2600
CSC 1052
ECE 2620
ECE 2160

Last Offered

Fall 2022, Fall 2021

CSC 4598: Machine Translation

Computer systems that translate human language transformations, such as readability and sentiment analysis, spam filtering, plagiarism detection, and other natural language processing techniques; typically includes collaboration with a non-Computer Science course on team-based student projects.

Credits 3.0

Prerequisites

CSC 1052 or ECE 2620 or (ECE 2160 and ECE 2161)

Prerequisite Courses

CSC 1052
ECE 2620
ECE 2160
ECE 2161

Last Offered

Fall 2018

CSC 4630: Software Dev and Systems

Operating system structures; system calls; system libraries; interprocess communication; user-interface programming environments; software utilities; software portability.

Credits 3.0

Prerequisites

(CSC 1600 or CSC 2405 or ECE 2044) and CSC 2053

Prerequisite Courses

CSC 1600
CSC 2405
ECE 2044
CSC 2053

Last Offered

Spring 2025, Spring 2023,
Spring 2021, Spring 2019

CSC 4700: Software Engineering

Management and production of software systems; the software life cycle; software design techniques and methodologies; participation in a team software development project.

Credits 3.0

Prerequisites

CSC 2053

Prerequisite Courses

CSC 2053

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CSC 4790: Senior Projects

Capstone course centered around a semester long software development or research project; project planning; requirements elicitation and specification; teamwork; oral presentations required of all students.

Credits 3.0

Prerequisites

CSC 4700 :D-

Prerequisite Courses

CSC 4700

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CSC 4810: Mobile App Development

Theory and practice of designing apps for mobile devices; interface design, platform-specific and platform-independent programming, sensor-based computing, cloud data management, security, and privacy; entrepreneurial practices for app development: ideation, business planning, and commercialization.

Credits 3.0

Prerequisites

CSC 2053

Prerequisite Courses

CSC 2053

Last Offered

Spring 2021, Spring 2020,
Spring 2019

CSC 4900: Networks and Security

Organization of computer networks; TCP/IP protocols; switching and routing methods; IP addressing and forwarding; TCP flow and congestion control; client-server communication; cryptography: secret-key, public key, digital signatures; security attacks and defenses: authentication and authorization, denial of service, firewalls, VPNs.

Credits 3.0

Prerequisites

CSC 2405

Prerequisite Courses

CSC 2405

Last Offered

Spring 2022, Spring 2021, Fall 2017, Fall 2016

CSC 5930: Topics Computer Science

Lecture presentation of selected topics in computer science. May be repeated for credit if topics are different. Prerequisites may be imposed depending on the topics.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CSC 5993: Independent Study

Reading, research and/or projects in a selected area of computer science under the direction of a member of the staff. May be repeated for credit.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

MSE 2400: CSC:Evol Lrng Cmp Robtcs Agnts

This course explores how software designers and artificial intelligence researchers draw inspiration from biology and learning theory to design programs and robotic agents that learn and adapt to changes in their environment. No prior programming experience is required.

Credits 4.0

Last Offered

Fall 2021, Fall 2020, Spring 2020, Fall 2019

Counseling

COU 2000: Introduction to Counseling

Designed to introduce students to the Counseling profession and to acquaint them with the history, structure, practices, standards, values and ethics of the counselor.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

COU 2500: Counseling for Women

Special needs and considerations for counseling with Women addressed, including: violence against women, women living in poverty, health concerns, infertility, motherhood, development and aging, racial-ethnic differences, inhibited anger, envy, success or inhibition, gender stereotypes, and more. Feminist psychoanalysis emphasized.

Credits 3.0

Last Offered

Spring 2025, Spring 2022, Spring 2021, Spring 2020

COU 3000: Counseling Theory & Skills

Course will cover theories and research regarding effective helping skills. Students will practice helping skills with each other and will conduct research projects evaluating their helping skills. The course is divided into a didactic and experimental component.

Credits 3.0

Last Offered

Spring 2023, Spring 2022, Spring 2020, Spring 2019

COU 3100: Group Counseling

An examination of group development theories, leadership, ethical and professional issues in groups. Students will apply learned group leadership skills within the classroom setting.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

COU 3400: Culturally Competent Counseling

Course explores historical and contemporary issues related to providing culturally congruent/competent human services with myriad populations. The impact of socio-identities (e.g., race, ethnicity, gender, religion, socioeconomic status, sexual orientation, and disability) will be examined, considering individual, group, and macro-system functioning.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

COU 3500: Devlp Perspective to Diagnosis

Not your average abnormal psychology class. Application of diagnostic systems of mental illness to counseling practice. Experiential and didactic learning methods elucidate the etiology and treatment of mental illness. Great course if planning to pursue psychology, social work, counseling, or other helping professions.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

COU 3600: Motivational Counseling Skills

Provides a comprehensive overview of the theory and techniques associated with Motivational Interviewing. Motivational Interviewing is a person-centered style of counseling for eliciting and strengthening a person's own motivation for and commitment to change.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

COU 3700: Family & Couples Counseling

Examines the principles of general systems theory as it applies to working with multi-person client systems in therapy.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

Cultural Studies

CST 2100: Intro. to Cultural Studies

Theoretical basis of cultural studies is covered; students are introduced to the most common methods of research in these areas. Mandatory for CST majors, open to others.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

CST 3000: Topics Course

Credits 3.0

Last Offered

Fall 2025, Spring 2015, Fall
2014, Spring 2014

CST 5900: Independent Study

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring
2024, Fall 2023

Department Chemistry and Biochemistry

The Department of Chemistry and Biochemistry at Villanova University offers masters and bachelors degrees, including an American Chemical Society accredited degree program for undergraduates. Our faculty actively conduct research in diverse areas such as environmental chemistry, protein biochemistry, fuel cell research, and computational chemistry. We recognize that undergraduate research provides a unique opportunity to work closely alongside a faculty mentor, gaining an experience that extends far beyond typical classroom learning, and we encourage all undergraduates to participate in undergraduate research.

CHM 1000: Profesi Development Sem

Professional development course for Chemistry and Biochemistry juniors and seniors. Visiting speakers and in-class workshops expose students to available career paths and research areas, build their professional network, and develop related skills, e.g., communication and personal statement writing.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHM 1002: First Year Prof Devlp Seminar

Professional development course for first year Chemistry majors focusing on information access skills, communication skills, and abilities to discuss ethical situations. Visiting speakers and in-class workshops expose students to available career paths and research areas and build their professional networks.

Credits 1.0

**Prerequisites
Last Offered**

Summer 2025, Spring 2025, Summer 2024, Spring 2024

CHM 1103: General Chemistry Lab I

Qualitative and quantitative laboratory experiments which include: the reactions of metals with water; the collection and plotting of data; acid-base titrations; oxidation-reduction titrations; the use of the pH meter and the determination of acid-base titration curves; the use of the spectrophotometer.

Coreqs. CHM 1131 or CHM 1151

Credits 1.0

**Prerequisites
Last Offered**

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CHM 1104: General Chemistry Lab II

Students will be required to identify all metal ions present in an unknown solution. Quantitative titrations of sodium carbonate and the total hardness of water. Synthesis of inorganic compounds and determination of the formula of a transition metal complex ion using spectroscopic methods. Corequisites: CHM 1152 or CHM 1156 (Note: Engineering students are waived from this lab.)

Credits 1.0

Prerequisites

CHM 1103 and (CHM 1151 or CHM 1611)

Prerequisite Courses

CHM 1103

CHM 1151

CHM 1611

Corequisites

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

CHM 1105: General, Organic & BioChem Lab

Laboratory experiments to accompany CHM 1135, which include: molecular modeling, identification and chemical reactivities of functional groups, reaction kinetic and equilibrium, and acid-base titrations.

Credits 1.0

Corequisites

CHM 1135

Corequisite Courses

CHM 1135

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHM 1107: General Chemistry Lab: Nursing

Qualitative and quantitative laboratory experiments which include: chemical identification testing, molecular modeling, coordination compound synthesis, reaction kinetics and equilibrium, acid-base titrations, and gas laws Coreq. CHM 1131.

Credits 1.0

Corequisites

CHM 1131

Corequisite Courses

CHM 1131

Last Offered

Fall 2022, Fall 2021, Fall 2020, Fall 2019

CHM 1108: General Chemistry Lab II

Chemistry of organic and biochemical compounds with an emphasis on the identification and chemical reactivities of functional groups. Students will be required to separate and identify various organic and biochemical compounds. Open to health affiliation students.

Credits 1.0

Prerequisites

CHM 1131 and (CHM 1103 or CHM 1107)

Prerequisite Courses

CHM 1131

CHM 1103

CHM 1107

Corequisites

CHM 1134

Corequisite Courses

CHM 1134

Last Offered

Spring 2023, Spring 2022, Spring 2021, Spring 2020

CHM 1131: General Chemistry I

Fundamental laws and theories of chemistry: atomic theory, chemical bonding, chemical kinetics and chemical equilibrium, gases, liquids, solids, solutions, stoichiometry, acid-base theories, electrochemical concepts, and an introduction to nuclear chemistry will be included. Open to health affiliation students.

Credits 3.0

Corequisites

CHM 1107

Corequisite Courses

CHM 1107

Last Offered

Fall 2022, Fall 2021, Fall 2020, Fall 2019

CHM 1134: General Chemistry II

Introduction to organic and biochemistry stressing the application of principles developed in CHM 1131. Open to health affiliation students.

Credits 3.0

Prerequisites

CHM 1131 and (CHM 1103 or CHM 1107)

Prerequisite Courses

CHM 1131

CHM 1103

CHM 1107

Corequisites

CHM 1108

Corequisite Courses

CHM 1108

Last Offered

Spring 2023, Spring 2022, Spring 2021, Spring 2020

CHM 1135: General, Organic & BioChem

General, Organic and Biological Chemistry concepts foundational to understanding cellular processes. i.e., measurements, atomic structure, nuclear chemistry, chemical bonding, nomenclature and properties of organic functional groups, chemical reactions, solutions, equilibrium, acids and bases, pH, buffers, and structures and functions of carbohydrates, proteins, and lipids.

Credits 4.0

Corequisites

CHM 1105

Corequisite Courses

CHM 1105

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHM 1151: General Chemistry I

Basic concepts of chemistry covering the following topics: stoichiometry, redox reactions; properties of gases; thermochemistry; descriptive presentation of atomic orbitals; molecular structure and bonding; chemical trends in the periodic table; properties of bulk matter; colligative properties of solutions.

Credits 4.0

Corequisites

CHM 1103

Corequisite Courses

CHM 1103

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CHM 1152: General Chemistry II

Continuation of CHM 1151. Introduction to chemical kinetics and equilibrium; the chemistry of acids and bases; buffers and titrations; complex ions and solubility; factors that drive chemical reactions; electrochemistry; nuclear chemistry.

Credits 4.0

Prerequisites

CHM 1151 :D- or CHM 1611 :D-

Prerequisite Courses

CHM 1151

CHM 1611

Corequisites

CHM 1104

Corequisite Courses

CHM 1104

Last Offered

Summer 2025, Spring 2025,
Summer 2024, Spring 2024

CHM 1156: General Chemistry II for Egr

Continuation of CHM 1151. Introduction to chemical kinetics and equilibrium; the chemistry of acids and bases; buffers and titrations; complex ions and solubility; factors that drive chemical reactions; electrochemistry; introduction to organic chemistry.

Credits 4.0

Prerequisites

CHM 1151 :D- and CHM 1103 :D-

Prerequisite Courses

CHM 1151

CHM 1103

Last Offered

Spring 2021, Spring 2020,
Spring 2019, Spring 2018

CHM 1301: Inorganic Chemistry Lab I

Selected experiments to illustrate fundamental laboratory techniques and skills. Qualitative and quantitative measurements, synthesis and characterization of inorganic complexes, literature searching and computer usage. Emphasis on modern research applications of metals and main group elements.

Credits 2.0

Corequisites

CHM 1311

Corequisite Courses

CHM 1311

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 1311: Inorganic Chemistry I

Fundamental principles in inorganic chemistry stressing relationships among structure, bonding, and reactivity. Properties of matter, periodic trends, acid/base reactions, redox reactions, and bonding in transition metal complexes.

Credits 3.0

Corequisites

CHM 1301

Corequisite Courses

CHM 1301

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 1502: Quant Anal Lab

Laboratory experiments to complement CHM 1512 covering the following: gravimetric analysis, acid-base titrations (weak acid; mixed acid), compleximetric titration and redox reactions.

Credits 2.0

Prerequisites

CHM 1301 :D-

Prerequisite Courses

CHM 1301

Corequisites

CHM 1512

Corequisite Courses

CHM 1512

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 1512: Quantitative Analysis

Chemical analysis, with emphasis upon statistical methods, acid-base properties, pH, equilibrium expressions, complexation equilibria, solubility properties, redox potentials, electrolysis, and electrochemical cells.

Credits 3.0

Prerequisites

CHM 1311 :D-

Prerequisite Courses

CHM 1311

Corequisites

CHM 1502

Corequisite Courses

CHM 1502

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 1611: Gen'l Chem I for BIOC Majors

Basic concepts of chemistry covering the following topics: stoichiometry, redox reactions; properties of gases; thermochemistry; descriptive presentation of atomic orbitals; molecular structure and bonding; chemical trends in the periodic table; properties of bulk matter; colligative properties of solutions.

Credits 4.0

Corequisites

CHM 1103

Corequisite Courses

CHM 1103

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHM 1903: Internship Elective

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHM 1906: Internship Elective

Credits 6.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHM 1909: Internship Elective

Credits 9.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHM 2201: Organic Chemistry Lab I

Practical experience in techniques used for separation, purification, and isolation of synthetic as well as naturally occurring organic compounds. Semi-micro and micro scale experiments. Crystallization, distillation, extraction, and chromatography are introduced.

Credits 1.0

Corequisites

CHM 2211

Corequisite Courses

CHM 2211

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CHM 2202: Organic Chemistry Lab II

Further training in laboratory techniques used in organic chemistry, including those introduced in CHM 2201, and utilization of such techniques in representative types of organic reactions. Semi-micro and micro scale experiments.

Credits 1.0

Prerequisites

CHM 2211

Prerequisite Courses

CHM 2211

Corequisites

CHM 2212

Corequisite Courses

CHM 2212

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

CHM 2211: Organic Chemistry I

Fundamental principles of organic chemistry stressing the relation of structure and reactivity. Structure and bonding; stereochemistry; acids, and bases; electrophilic addition, elimination and nucleophilic substitution.

Credits 3.0

Prerequisites

(CHM 1151 and CHM 1152) or (CHM 1151 and CHM 1156) or (CHM 1611 and CHM 1152)

Prerequisite Courses

CHM 1151

CHM 1152

CHM 1151

CHM 1156

CHM 1611

CHM 1152

Corequisites

CHM 2201

Corequisite Courses

CHM 2201

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CHM 2212: Organic Chemistry II

Continuation of CHM 2211. Carbonyl group reactions, aromatic chemistry, spectroscopy and special topics such as heterocycles, carbohydrates and nucleosides, amino acids and proteins, lipids, radicals, rearrangements, polymers and photochemistry.

Credits 3.0

Prerequisites

CHM 2211 :D- and CHM 2201 :D-

Prerequisite Courses

CHM 2211

CHM 2201

Corequisites

CHM 2202

Corequisite Courses

CHM 2202

Last Offered

Summer 2025, Spring 2025,
Summer 2024, Spring 2024

CHM 2993: Internship

Credits 3.0

Last Offered

Summer 2024, Summer 2023,
Summer 2022, Summer 2021

CHM 3201: Organic Chemistry Lab I

Provides practical experience in the principal techniques utilized for the purification, separation, identification, and synthesis of organic compounds on the micro scale. Open to Chemistry majors.

Credits 2.0

Prerequisites

CHM 1502 :D-

Prerequisite Courses

CHM 1502

Corequisites

CHM 3211

Corequisite Courses

CHM 3211

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3202: Organic Chemistry Lab II

The semi-micro techniques include distillation, recrystallization, extraction, sublimation, and chromatography. Synthesis of representative organic compounds. An introduction to research in organic chemistry, introduction to qualitative organic analysis and practical use of infrared and nuclear magnetic resonance spectroscopies.

Credits 2.0

Prerequisites

(CHM 3211 and CHM 3201)

Prerequisite Courses

CHM 3211

CHM 3201

Corequisites

CHM 3212

Corequisite Courses

CHM 3212

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 3211: Organic Chemistry I

Fundamental principles of organic chemistry stressing the relation of structure and reactivity from a physical-chemical viewpoint. Structure and bonding; stereochemistry; acids and bases; electrophilic addition reactions of alkenes, alkynes, and dienes; nucleophilic substitution reactions at saturated carbon atoms and elimination reactions leading to alkenes or alkynes. Open to chemistry majors.

Credits 3.0

Prerequisites

CHM 1512 :D- and CHM 1502 :D-

Prerequisite Courses

CHM 1512

CHM 1502

Corequisites

CHM 3201

Corequisite Courses

CHM 3201

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3212: Organic Chemistry II

Addition and substitution reactions of carbonyl compounds, electrophilic and nucleophilic aromatic substitutions, radical and concerted reactions, heterocyclic compounds and polymer chemistry. Spectroscopic methods of analysis including nuclear magnetic resonance, infrared spectroscopies and mass spectrometry. Introduction to multi-step organic synthesis. Open to chemistry majors.

Credits 3.0

Prerequisites

CHM 3211 :D- and CHM 3201 :D-

Prerequisite Courses

CHM 3211

CHM 3201

Corequisites

CHM 3202

Corequisite Courses

CHM 3202

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 3301: Inorganic Chem Lab II

This laboratory course emphasizes preparative techniques of inorganic compounds. Instrumental methods of structure elucidation are included.

Credits 2.0

Prerequisites

(CHM 2212 :D- or CHM 3212 :D-) and (CHM 2202 :D- or CHM 3202 :D-)

Prerequisite Courses

CHM 2212

CHM 3212

CHM 2202

CHM 3202

Corequisites

CHM 3311

Corequisite Courses

CHM 3311

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3311: Inorganic Chem II

The second course in the sequence on principles of inorganic chemistry with emphasis on bonding, structure and reactivity. Application of these principles to problems in acid-base, coordination, organometallic, bioinorganic and materials chemistry.

Credits 3.0

Prerequisites

(CHM 2212 :D- or CHM 3212 :D-) and (CHM 2202 :D- or CHM 3202 :D-)

Prerequisite Courses

CHM 2212

CHM 3212

CHM 2202

CHM 3202

Corequisites

CHM 3301

Corequisite Courses

CHM 3301

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3402: Physical Chem Lab II

Experimental methods of chemical kinetics will be covered. Spectroscopic, polarimetric, and conductimetric methods will be used.

Credits 1.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Corequisites

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 3404: Physical Chem Lab I

Experiments on chemical kinetics and optical spectroscopic methods including fluorescence, un-visible, infrared and Raman spectroscopy as well as conductance, viscosity, and numerical analysis of data.

Credits 2.0

Prerequisites

(CHM 2212 :D- or CHM 3212 :D-) and (CHM 2202 :D- or CHM 3202 :D-)

Prerequisite Courses

CHM 2212

CHM 3212

CHM 2202

CHM 3202

Corequisites

CHM 3412

Corequisite Courses

CHM 3412

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 3405: Physical Chem Lab II

Experiments centered on chemical thermodynamics including calorimetry and phase equilibria, emphasizing data treatment, including error analysis curve fitting, and related topics.

Credits 2.0

Prerequisites

CHM 3412 :D- and CHM 3404

Prerequisite Courses

CHM 3412

CHM 3404

Corequisites

CHM 3413

Corequisite Courses

CHM 3413

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

CHM 3412: Quantum Chemistry

This course will present an introduction to quantum mechanics and its implications including molecular orbital theory, electronic structure, and molecular spectroscopy.

Credits 3.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Corequisites

CHM 3404

Corequisite Courses

CHM 3404

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 3413: Molecular Thermodynamics

First, second, and third laws of thermodynamics; phase equilibria and chemical equilibria; gases; and electrochemistry will be covered in this course.

Credits 3.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Corequisites

CHM 3405

Corequisite Courses

CHM 3405

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3416: Physical Chem for Engineers

Chemical kinetics, electrochemistry, and the structure and properties of materials, including atomic structure, solid and liquid state chemistry, surface and colloid chemistry, and transport properties.

Credits 3.0

Prerequisites

Corequisites

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 3417: Biophysical Chemistry

A study of thermodynamics, kinetics, chemical equilibria, and spectroscopy as they apply to biological molecules, macromolecules, and cells.

Credits 3.0

Prerequisites

(CHM 2212 or CHM 3212) and
(CHM 4611 or CHM 4621)

Prerequisite Courses

CHM 2212

CHM 3212

CHM 4611

CHM 4621

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3501: Instrumental Analysis Lab

Laboratory techniques to obtain quantitative information about the composition of unknown samples, including potentiometric titration, spectrophotometry, chromatography, kinetic analysis, anodic stripping voltammetry, spectrofluorometry and atomic absorption spectrometry. Designed to complement CHM 3511 lecture.

Credits 2.0

Prerequisites

CHM 1152 :D- or CHM 1512 :D-

Prerequisite Courses

CHM 1152

CHM 1512

Corequisites

CHM 3511

Corequisite Courses

CHM 3511

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3503: Bioanalytical Chem Lab

Laboratory course to complement CHM. 3514; emphasis on the analysis of biological systems utilizing modern analytical techniques. Designed for the biochemistry concentration.

Credits 1.0

Prerequisites

(CHM 1152 and CHM 1104)

Prerequisite Courses

CHM 1152

CHM 1104

Corequisites

CHM 3514

Corequisite Courses

CHM 3514

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3511: Instrumental Analysis

The utilization of instruments covering the following topics: analog and digital signals, absorption and emission of light by molecules and atoms, chromatography (HPLC, GC) and detection, use of enzymes and antibodies, radioactivity, and chemometrics.

Credits 3.0

Prerequisites

CHM 1152 :D- or CHM 1512 :D-

Prerequisite Courses

CHM 1152

CHM 1512

Corequisites

CHM 3501

Corequisite Courses

CHM 3501

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 3514: Bioanalytical Chemistry

Designed for the biochemistry concentration with emphasis on theory, instrumentation and practical applications of analytical chemistry to biological materials.

Credits 3.0

Prerequisites

CHM 1152 :D- or CHM 1512 :D-

Prerequisite Courses

CHM 1152

CHM 1512

Corequisites

CHM 3503

Corequisite Courses

CHM 3503

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 4222: Organic Struct Analysis

The currently most useful spectroscopic methods for the structural determination of molecular systems, including: NMR (2D and 2D), mass spectrometry, infrared and ultraviolet-visible spectroscopies.

Credits 3.0

Prerequisites

CHM 3212 or CHM 2212

Prerequisite Courses

CHM 3212

CHM 2212

Corequisites

Last Offered

Spring 2021, Fall 2018, Spring
2013, Spring 2011

CHM 4229: Organic Reactions & Synthesis

Survey of organic reactions with emphasis on modern synthetic methods and their applications to the synthesis of complex organic compounds. Enolates, carbonyl condensation reactions, functional group interconversions, electrophilic addition reactions, reductions, organometallic reagents, concerted reactions, oxidations. Synthetic strategies including retrosynthetic analysis in the context of specific examples of multi-step synthesis from recent literature.

Credits 3.0

Prerequisites

CHM 3212 or CHM 2212

Prerequisite Courses

CHM 3212

CHM 2212

Last Offered

Spring 2022, Spring 2021,
Spring 2020, Fall 2013

CHM 4292: Advanced Organic Chemistry

An expanded presentation of fundamental topics in organic chemistry: structure, bonding, stereochemistry, molecular orbital theory, reactive intermediates and reaction mechanisms.

Credits 3.0

Prerequisites

(CHM 3212 :D- or CHM 2212 :D-)

Prerequisite Courses

CHM 3212

CHM 2212

Last Offered

Fall 2022, Fall 2021, Fall 2020,
Fall 2019

CHM 4325: Introductory Polymer Chemistry

Topics include: step- and chain-polymerizations, copolymerizations, molecular weight determination, polymer morphology, polymer testing and characterization, and current advances in polymer chemistry.

Credits 3.0

Prerequisites

CHM 2212 or CHM 3212

Prerequisite Courses

CHM 2212

CHM 3212

Last Offered

Spring 2022, Spring 2019,
Spring 2014

CHM 4517: Environmental Chemistry

Apply key concepts in chemistry to global scales by examining chemical systems within Earth's lithosphere hydrosphere and atmosphere. Examine and discuss natural processes as well as anthropogenic impacts like climate change and environmental contamination using central scientific literature.

Credits 3.0

Prerequisites

CHM 2211 or CHM 3211

Prerequisite Courses

CHM 2211

CHM 3211

Last Offered

Fall 2022, Fall 2021, Fall 2020,
Fall 2019

CHM 4601: Survey Biochemistry Lab

An introduction to laboratory techniques in biochemistry; enzyme kinetics, column chromatography, electrophoresis, standard biochemical assays and interpretation of data.

Credits 1.0

Prerequisites

CHM 2202 :D- or CHM 3202 :D- and CHM 4611 :Y :D- or CHM 4610 :Y :D- or CHM 3202 :D-

Prerequisite Courses

CHM 2202

CHM 3202

CHM 4611

CHM 4610

CHM 3202

Corequisites

CHM 4611

Corequisite Courses

CHM 4611

Last Offered

Spring 2023, Spring 2022,
Spring 2021, Spring 2020

CHM 4603: Biochem Tech. and Pract.

A laboratory course to complement CHM 4621 with emphasis on enzyme purification, enzyme characterization, and nucleic acid analysis.

Credits 1.0

Prerequisites

(CHM 2212 :D- or CHM 3212 :D-) and (CHM 4621 :Y :D- or CHM 4611 :Y)

Prerequisite Courses

CHM 2212

CHM 3212

CHM 4621

CHM 4611

Corequisites

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

CHM 4604: Biochem Tech. and Pract II

A continuation of the introduction of fundamental biochemistry laboratory techniques, along with the application of skills acquired in CHM 4603.

Credits 1.0

Prerequisites

CHM 4603 :D-

Prerequisite Courses

CHM 4603

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 4611: Survey of Biochemistry

A terminal, one semester survey of biochemistry; carbohydrates, lipids, proteins, nucleic acids, enzymes, vitamins & hormones; consideration of their utilization & metabolism in living systems.

Credits 3.0

Prerequisites

CHM 2212 :D- or CHM 3212 :D-

Prerequisite Courses

CHM 2212

CHM 3212

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

CHM 4621: Biochemistry I: Structure

An in depth study of the structure and function of the structure and function of proteins, enzymes, carbohydrates, nucleic acids and lipids.

Credits 3.0

Prerequisites

CHM 2212 or CHM 3212

Prerequisite Courses

CHM 2212

CHM 3212

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CHM 4622: Biochemistry II:Metabolism

A study of the metabolism of biomolecules, including carbohydrates, lipids, amino acids and nucleotides, including the integration, regulation and control of intermediary metabolism. Emphasized are the hormonal regulation of pathways and metabolic disease.

Credits 3.0

Prerequisites

CHM 4621

Prerequisite Courses

CHM 4621

Corequisites

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 4623: Biochemistry III

Integration of metabolism in organisms, membrane receptors expression of genes, gene manipulation, translation, transcription.

Credits 3.0

Prerequisites

CHM 4622 :D-

Prerequisite Courses

CHM 4622

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHM 4652: Biochemical Basis of Disease

A study of the relationship between protein structure and disease, enzymes as therapeutic targets, peptide hormones and obesity, and glucose metabolism and cancer.

Credits 3.0

Prerequisites

CHM 4611 or CHM 4622

Prerequisite Courses

CHM 4611

CHM 4622

Last Offered

Fall 2020, Fall 2017, Fall 2015,
Fall 2012

CHM 4665: Enzymes

Structural and mechanistic aspects of enzymes. Topics include chemical catalysis, steady state and pre-steady state kinetics, mechanisms, and biological relevance of specific enzyme systems.

Credits 3.0

Prerequisites

CHM 4621 or CHM 4611

Prerequisite Courses

CHM 4621

CHM 4611

Last Offered

Spring 2022, Fall 2019, Spring 2017, Fall 2013

CHM 4710: Safety Culture in the Sci Com

Introduction to the principles and practices of laboratory safety; understanding, recognizing, and communicating laboratory chemical, physical and biological hazards; risk assessment and management of hazards; laboratory accident prevention and safe use of emergency equipment.

Credits 3.0

Last Offered

Spring 2022, Fall 2020

CHM 4800: Research

Student participation in independent research under faculty supervision, frequent conferences with advisor, on literature search, theoretical and experimental, research.

Credits 0.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHM 4801: Research I

Student participation in independent research under faculty supervision, frequent conferences with advisor on literature search, theoretical and experimental research.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

CHM 4802: Research II

Continuation of CHM 4801.

Credits 3.0

Prerequisites

CHM 4801

Prerequisite Courses

CHM 4801

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

CHM 4803: Research III

Continuation of CHM 4802.

Credits 3.0

Prerequisites

CHM 4802

Prerequisite Courses

CHM 4802

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

CHM 4851: Thesis Research I

Directed research with a Chemistry or Biochemistry faculty mentor that culminates in a written thesis and seminar presentation. Part I of a two-semester sequence with CHM4852. Permission of participating faculty member required. A written interim report is required at the end of the semester.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHM 4852: Thesis Research II

Continuation of CHM4851 - Thesis Research I. Directed research with a Chemistry or Biochemistry faculty mentor that culminates in a written thesis and seminar presentation. Permission of participating faculty member required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MSE 2300: CHM:Alchemy, Artisanship& Chm

This course examines introductory chemistry topics in a modern and historical light including how the current knowledge of chemistry is owed to Greek philosophers, Islamic healers, Western artisans, monks, and the alchemists. The laboratory recreates chemistry-related activities of the past (e.g., soap and dye-making).

Credits 4.0

Last Offered

Spring 2025, Spring 2022,
Spring 2021, Spring 2019

MSE 2301: CHM:Water

The course explores the chemistry of water including its unique structure and properties, water pollution, water treatment, and its role in biochemistry, climate, renewable energy, and global economic and political policies. The laboratory introduces sampling methods and common quality measurements (e.g., dissolved oxygen and pH).

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Spring 2023

MSE 2303: CHM:The Science of Art

This course provides an understanding of artistic media related to technological advances throughout the centuries. Creating, viewing, and understanding, authenticating, and conserving works of art will be explored. The laboratory provides practice and an appreciation of the advances in artistic media throughout history.

Credits 4.0

Last Offered

Summer 2025, Summer 2024,
Summer 2023, Summer 2022

MSE 2305: Perspective on Plastic

Polymers surround our everyday existence from the clothes we wear to the plastic packaging we use to polymers in wood. Using an interdisciplinary approach, we will study polymer lifecycles to help inform and shape responsible plastic use.

Credits 4.0

Last Offered

Fall 2020, Spring 2020, Fall
2019

MSE 2306: CHM:The Chemistry of Food

The chemical and biochemical properties of food - sugars, fats, proteins, and mixtures - will be explored. The chemical reactions that occur during food preparation and cooking, and the science behind food preparation will be examined in depth.

Credits 4.0

Last Offered

Spring 2025, Spring 2024

Economics

Chair: Erasmus Kersting, Ph.D.
Associate Chair: Mary Kelly,
Ph.D.

Office Location: 2014 Bartley
Hall

Telephone: 610-519-4370

[Website](#)

About

Economics is the science that studies the behavior of social systems - such as markets, legislatures, corporations, and families - in allocating scarce resources. It is a discipline which brings together the diverse worlds of business, social science, and public policy. The study of economics is an excellent preparation leading to many career options. Economics majors are well positioned to be the future managers and leaders in both the private and public sectors. The study of economics at the undergraduate level provides a solid basis for graduate study in the social sciences and for professional study in business

administration, law, public administration, and in the health sciences.

ECO 1000: Introductory Topics-Economics

An examination of basic Micro- and Macroeconomic topics. CANNOT COUNT FOR ECONOMICS MAJORS.

Credits 3.0

Last Offered

Fall 2024, Fall 2023

ECO 1001: Intro to Micro

The price system; demand and supply analysis; the production process; analysis of market structures.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

ECO 1002: Intro to Macro

The economic system and its fundamental principles. The economic functions of government, monetary and fiscal policy, and international trade.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

ECO 1903: Internship Elective

Fulfills 3.0 free elective credits.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

ECO 1906: Internship Elective

Fulfills 6.0 free elective credits.

Credits 6.0

Last Offered

Summer 2024, Summer 2023,
Summer 2022, Summer 2021

ECO 2101: Macroeconomic Theory

The components of aggregate economic growth. Theories underlying public policies which attempt to achieve the objectives of price stability, full employment and economic growth in the United States.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and (ECO 1002) and (MAT 1310 or MAT 1312 or MAT 1320 or MAT 1330 or MAT 1400 or MAT 1500)

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002
MAT 1310
MAT 1312
MAT 1320
MAT 1330
MAT 1400
MAT 1500

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECO 2102: Microeconomic Theory

Economic and mathematical analysis of the equilibrium conditions of the household, the firm, and industry, in various market structures, together with a brief examination of the general equilibrium of the economy; emphasis upon developing a working knowledge of elementary mathematical analysis as it applies to present economic theory.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002 and (MAT 1310 or MAT 1312 or MAT 1320 or MAT 1330 or MAT 1400 or MAT 1500)

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002
MAT 1310
MAT 1312
MAT 1320
MAT 1330
MAT 1400
MAT 1500

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECO 2130: Intro to R Prog for Econ & Fin

Fast paced coverage of R. Topics include libraries, tidyverse, IO, data types and storage, data analysis and display, function writing, higher order functions vs loops, and performance.

Credits 1.0

Prerequisites

MAT 1400 or MAT 1500 and (MAT 1235 or MAT 1430 or STAT 1235 or STAT 1430) and MIS 2020 or CSC 1010

Prerequisite Courses

MAT 1400
MAT 1500
MAT 1235
MAT 1430
STAT 1235
STAT 1430
MIS 2020
CSC 1010

Last Offered

Fall 2020, Spring 2020, Fall 2019

ECO 2993: Internship

Fulfills 3.0 economic elective credits.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

ECO 2996: Internship

Fulfills 6.0 economic elective credits.

Credits 6.0

Last Offered

Summer 2024, Summer 2023, Summer 2022, Summer 2021

ECO 3106: Econ of Money & Banking

Principles of money, banking and financial markets; the relationship of the monetary and banking system to the functioning of the economy; the theory and practice of monetary policy; the function of money in international payments.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ECO 3107: FED Challenge

Competition style course structured to combine concepts of Federal Reserve monetary policy and advanced macroeconomic analysis with enhanced presentation skills. Students will be selected from the class to represent Villanova in an intercollegiate Fed Challenge Competition.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002 and (ECO 2101 or ECO 3106)

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002
ECO 2101
ECO 3106

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ECO 3108: Global Political Econ

Socio-economic conditions, political history, and government policy and the global impact on international trade and monetary relations; regional integration; stability of international economic systems; economic development and transition strategies; role of multinational corporations in the global world.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

ECO 3109: International Economics

Comparative advantage; gains from foreign trade; Heckscher-Ohlin doctrine; technology and product cycles; tariff theory and policy; Other protection measures; economic integration; foreign exchange rates; fixed and flexible rates; balance of payments; multinational corporations.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002

Last Offered

Spring 2025, Spring 2022, Fall 2020, Spring 2019

ECO 3111: Hist of Economic Thought

The evolution of economic analysis within the context of contemporary economic institutions and associated social, ethical, and political thought.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001

SBI 2005

ECO 1002

Last Offered

Summer 2025, Summer 2023, Summer 2022, Summer 2021

ECO 3112: Public Sector Economics

The economic roles of various levels of government and the theory and practice of public expenditure and taxation. Government's impact on the allocation of resources and the distribution of income in a mixed economy.

Credits 3.0

Prerequisites

ECO 1001 or SBI 2005

Prerequisite Courses

ECO 1001

SBI 2005

Last Offered

Fall 2022, Fall 2021, Spring 2021, Fall 2020

ECO 3114: Environmental Economics

Through the evaluation of practical applications, social norms, and environmental laws and policies, this course provides a critical analysis of the economic impact of environmental challenges including resource depletion, climate change, and ecosystem services across temporal, spatial, and political boundaries.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001

SBI 2005

ECO 1002

Last Offered

Fall 2025, Spring 2025

ECO 3118: Women in the Economy

The role of women in the economy and its implications. Economics of the household, marriage, fertility, divorce unemployment, earnings of women and occupational choice. International comparisons and current public policy issues.

Credits 3.0

Prerequisites

ECO 1001 or SBI 2005

Prerequisite Courses

ECO 1001

SBI 2005

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

ECO 3120: Financial Economics

This course covers corporate finance. Topics include Time Value of Money, Interest Rates, Stocks and Bonds, Firm Valuation, Investment Risk and Return, Capital Structure, Financial Modeling and Forecasting, Options, and Mergers and Acquisitions.

Credits 3.0

Prerequisites

ECO 1001 and ECO 1002

Prerequisite Courses

ECO 1001

ECO 1002

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECO 3123: Labor Economics

Economic theories concerning the employer's labor demand, the individual's labor supply, educational/occupational choices, labor unions, on-the-job training, discrimination, labor market mechanisms and wage determination. Public policies which affect the market.

Credits 3.0

Prerequisites

ECO 1001 or SBI 2005

Prerequisite Courses

ECO 1001

SBI 2005

Last Offered

Spring 2024, Spring 2023, Spring 2022, Spring 2021

ECO 3124: Economics of Sports

Key economic concepts and theories of Industrial Organization and Public Policy, Public Finance, and Labor Economics, discussed in the context of the sports industry. An in-depth look at related econometric research of sports economists.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001

SBI 2005

ECO 1002

Last Offered

Fall 2025, Fall 2023

ECO 3125: Industr Org & Public Pol

Economics of American industrial organization; market structure, conduct, and performance; the workability of competition in selected industries; the application of public policy and anti-trust law.

Credits 3.0

Prerequisites

ECO 1001 or SBI 2005

Prerequisite Courses

ECO 1001

SBI 2005

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ECO 3126: Amer Econ Development

Growth of the American economy in terms of its various sectors and their interrelations; the evolution of important economic institutions and ideas and of the role of the entrepreneurs.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001

SBI 2005

ECO 1002

Last Offered

Spring 2021, Fall 2019, Fall 2018, Spring 2018

ECO 3127: Development Economics

Structural change in the process of development; growth patterns and income distribution; determinants and role of saving, investment, technological change; strategy and methods of development planning; the role of government; social institutions.

Credits 3.0

Prerequisites

ECO 1001 or SBI 2005

Prerequisite Courses

ECO 1001

SBI 2005

Last Offered

Fall 2024, Spring 2024, Spring 2023, Fall 2022

ECO 3130: Programming for Econ & Fin

Programming in R for economics and finance applications. Topics include libraries, tidyverse, IO, data types and storage, indexing/slicing, data wrangling, regression, display, function writing, control structures, loops, higher order functions, performance, functional and objected oriented design.

Credits 3.0

Prerequisites

MAT 1400 or MAT 1500 and (MAT 1235 or MAT 1430 or STAT 1235 or STAT 1430)

Prerequisite Courses

MAT 1400

MAT 1500

MAT 1235

MAT 1430

STAT 1235

STAT 1430

Last Offered

Spring 2025, Spring 2024

ECO 3133: Economics of Healthcare

Examination of health as a durable good and specific markets for services to enhance health, including physician, nursing, hospital, and private insurance. The role of government and comparison to health care systems and outcomes in other countries are all studied.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002

Last Offered

Spring 2025, Spring 2023,
Spring 2021, Spring 2020

ECO 3137: Intro to Econometrics

Intermediate course in stochastic methods with emphasis on applications; estimation, hypotheses testing, regression analysis, economic forecasting, time series analysis and probabilistic formulation of economic relationships such as consumption and production functions.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002 and (STAT 1235 or STAT 1313 or STAT 1430 or STAT 4310 or VSB 2005)

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002
STAT 1235
STAT 1313
STAT 1430
STAT 4310
VSB 2005

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECO 3138: Game Theory

Basic game theoretic framework, concepts and applications; mathematical models to understand the behavior of humans in strategic situations.

Credits 3.0

Prerequisites

ECO 1001 or SBI 2005

Prerequisite Courses

ECO 1001
SBI 2005

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ECO 3139: Behavioral Economics

Examine cutting edge theories of how cognitive, psychological, social, and emotional factors affect economic decisions. Evidence from lab and field experiments is presented to support these behavioral models.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002 and (MAT 1310 or MAT 1320 or MAT 1400 or MAT 1500)

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002
MAT 1310
MAT 1320
MAT 1400
MAT 1500

Last Offered

Fall 2025

ECO 3140: Urban Economics

Utilizes economic theory to examine the major contemporary issues confronting urban areas; explores economic solutions to the problems of housing, transportation, education, poverty, crime, growth, employment, taxes and redevelopment.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002

Last Offered

Fall 2025, Spring 2025, Spring 2019, Fall 2017

ECO 3200: Topics in Economic

Selected topics in economics currently of interest to faculty and students.

Credits 3.0

Prerequisites

(ECO 1001 or SBI 2005) and ECO 1002

Prerequisite Courses

ECO 1001

SBI 2005

ECO 1002

Last Offered

Fall 2025, Summer 2025,

Spring 2025, Fall 2024

ECO 4132: Seminar in Economics

Capstone course requiring students to utilize the tools of analysis and expression, including not only economic theory and applications, but also writing, speaking and mathematics. Computer skills expanded.

Credits 3.0

Prerequisites

ECO 2101 and ECO 2102 and (ECO 3132 or ECO 3137)

Prerequisite Courses

ECO 2101

ECO 2102

ECO 3132

ECO 3137

Last Offered

Spring 2021, Spring 2020, Fall 2019, Spring 2019

ECO 4200: Advanced Topics in Economics

Selected topics in economics currently of interest to faculty and students.

Credits 3.0

Prerequisites

ECO 2101 and ECO 2102 and ECO 3137

Prerequisite Courses

ECO 2101

ECO 2102

ECO 3137

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECO 4201: Dynamic Macroeconomic Theory

Modern methods used in macroeconomic research based on microeconomic principles; dynamic processes of economic growth and business cycles; impact of rational expectations on fiscal and monetary policies; mathematical tools for dynamic economic models.

Credits 3.0

Prerequisites

ECO 2101 and ECO 2102

Prerequisite Courses

ECO 2101

ECO 2102

Last Offered

Spring 2021, Spring 2020

ECO 4203: Pol Eco of Intl Financial Inst

This course examines foreign aid using a variety of economic tools including growth models, a public choice approach, principal-agent theory, and econometrics. A recurring theme is how the objectives of aid donors and recipients influence the development effectiveness of aid.

Credits 3.0

Prerequisites

(ECO 2102 and ECO 3137)

Prerequisite Courses

ECO 2102

ECO 3137

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ECO 4207: Economics of Risk&Uncertainty

Capstone course. Analyze microeconomic and macroeconomic situations involving risk, uncertainty, and ambiguity. Applications of expected utility theory and mean-variance theory in insurance, behavioral economics, and finance. Applications of empirically measuring and quantitatively modeling time-varying volatility in macroeconomics.

Credits 3.0

Prerequisites

ECO 2102 and ECO 2101 and ECO 3137

Prerequisite Courses

ECO 2102

ECO 2101

ECO 3137

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

ECO 4209: International Macroeconomics

Capstone course. Open economy macroeconomic theory, monetary and asset-based exchange rate models; flexible vs. fixed exchange rate regimes; gains from financial globalization; financial and currency crisis; currency unions.

Credits 3.0

Prerequisites

ECO 2102 and ECO 2101 and ECO 3137

Prerequisite Courses

ECO 2102

ECO 2101

ECO 3137

Last Offered

Spring 2025, Fall 2023, Fall 2022, Fall 2021

ECO 4210: Experimental Economics

Capstone course. Read seminal papers that use experiments to test economic theories. Learn how to properly design and conduct experiments.

Credits 3.0

Prerequisites

ECO 2102 and ECO 2101 and ECO 3137

Prerequisite Courses

ECO 2102

ECO 2101

ECO 3137

Last Offered

Spring 2021

ECO 4500: Independent Study in Eco

Students with specific interests work on a tutorial basis with faculty. A departmental independent Research Proposal form must be approved by the directing faculty member and the department chairman prior to registration.

Credits 3.0

Prerequisites

ECO 2101 and ECO 2102

Prerequisite Courses

ECO 2101

ECO 2102

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

Education

EDU 2150: Disability & Deaf Studies Sem

Addresses differences and points of praxis between Disability Studies and Deaf Studies and lays the foundation for understanding how disability and Deafness have been theoretically, linguistically, socially, politically, legally, and economically constructed.

Credits 1.0

EDU 2202: Social Foundation Edu II

Development of public and private education in America in its social and philosophical context; types of education, governmental activity in education, educational finance, religious and political influences, impact of European developments.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EDU 2253: History of American Education

Focus on the people, ideas, issues and controversies that have created the current American school system. Will chronicle attempts to include (and sometimes exclude) an expanding school population as racial, gender, religious and health issues became confrontational battlegrounds.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EDU 2300: Research Seminar in Education

An opportunity for students to become acquainted with the various approaches to inquiry in educational research and to design a small scale research project. Students will learn how to locate, analyze and use both qualitative and quantitative research reports.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2022, Spring 2021

EDU 3000: Prof. Development in Education

Required course upon entry in the Teacher Certification Program. Introduction to competencies required for state certification, Standards Aligned Systems, national and state teaching standards and code of conduct and evaluation methods leading to state licensure in teaching grades 7-12.

Credits 1.0

Last Offered

Fall 2025, Spring 2024, Spring 2023, Spring 2022

EDU 3011: Pre-Practicum & Seminar 1

An introductory practicum for Undergraduate Education Majors. Intended to introduce and develop classroom-based inquiry skills; provide insight into lesson planning and implementation; and provide opportunities to engage with personal beliefs and biases about teaching, learning, and students.

Credits 1.0

Prerequisites

EDU 2202 :Y

Prerequisite Courses

EDU 2202

EDU 3012: Pre-Practicum & Seminar 2

An intermediate-level practicum for Undergraduate Education Majors. Intended to develop classroom-based inquiry skills; explore, understand, and navigate the various aspects of school culture and classroom environment; and provide opportunities to engage with personal beliefs and biases about teaching, learning, and students.

Credits 1.0

Prerequisites

EDU 3011

Prerequisite Courses

EDU 3011

EDU 3013: Pre-Practicum & Seminar 3

An advanced practicum for Undergraduate Education Majors. Intended to develop classroom-based inquiry skills; provide opportunities to create and implement lessons and related assessments; and provide opportunities to engage with personal beliefs and biases about teaching, learning, and students.

Credits 1.0

Prerequisites

EDU 3011 and EDU 3012

Prerequisite Courses

EDU 3011

EDU 3012

EDU 3100: Disability & Deaf Studies Semi

Addresses differences and points of praxis between Disability Studies and Deaf Studies and lays the foundation for understanding how disability and Deafness have been theoretically, linguistically, socially, politically, legally, and economically constructed.

Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

EDU 3220: Literature in Classrooms

Students will identify and critically evaluate effective practices in YA literacy instruction; analyze YA literature through the lens of diversity, equity and inclusion, and approach the instruction of YA literature through an equity, strengths-based, culturally sustaining lens.

Credits 3.0

Last Offered

Spring 2025, Fall 2022

EDU 3251: Psych of Teaching & Learning

The application of learning theory to classroom teaching.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EDU 3253: Educational Policy Analysis

Examines the challenges facing public schools, the policies that are designed in response to these challenges, the effects of these policies on students, and efforts undertaken by some youth to improve education policy. Core course for Educational Policy & Leadership minor.

Credits 3.0

Last Offered

Fall 2025, Spring 2020, Fall 2017, Fall 2016

EDU 3258: Education & Society in 1960s

The relationship between educational developments and social change in the decade of the 1960s. The emergence of a distinctive youth culture and the educational impact of the civil rights and women's rights movements of the era.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EDU 3262: Edu Pearl Harbor to Sputnik

The impact of World War II and the Cold War on American schools and society. The expansion of educational opportunities for women, ethnic and social minorities. The influence of advances in communications and technology on educational issues of the 1940s and 1950s.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EDU 3263: Diversity and Inclusion

Introduction to the physical and social characteristics of diverse and exceptional students between 3 and 21. Issues of race, culture, gender, sexual orientation, and special education with respect to schools and in light of recent legislation and court decisions. Problem cases with an emphasis on the underprivileged, antisocial, and disadvantaged.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EDU 3264: Intro to Disability Studies

Social, political, cultural and academic implications of disability; legacy of disability in the US and abroad; strategies for working with individuals with special needs. Service learning is required.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

EDU 4242: Special Topics: Education

Work in critical analysis of selected topics in education, reflecting various historical, philosophical, and societal perspectives and methodologies.

Credits 3.0

Last Offered

Spring 2023

EDU 4245: Literacy & Eng Lang Learning

Techniques for literacy evaluation; methods of teaching literacy and English as a second language; strategies for basic skill development and student observation in the schools.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

EDU 4281: Meth English Sec School

The curriculum, planning units and lessons in the teaching area; general methods of teaching, special methods and instructional materials in the subject, including textbooks, courses of study and reference works; application of the principles and techniques studied in Education 3254 to teaching the subject; lesson plans, units and tests in using methods, techniques, and materials in the subject; planned experiences and weekly assignments in neighboring secondary schools to observe, assist teachers, and teach pupils in the subject.

Credits 3.0

Prerequisites

EDU 3251 :D-

Prerequisite Courses

EDU 3251

Last Offered

Fall 2025, Fall 2023, Fall 2022, Fall 2019

EDU 4282: Meth Fgn Lang Sec School

The curriculum, planning units and lessons in the teaching area; general methods of teaching, special methods, and instructional materials in the subject, including textbooks, courses of study and reference works; application of the principles and techniques studied in Education 3254 to teaching the subject; lesson plans, units and tests and in using methods, techniques, and materials in the subject; planned experiences and weekly assignments in neighboring secondary schools to observe, assist teachers and teach pupils in the subject.

Credits 3.0

Prerequisites

EDU 3251 :D-

Prerequisite Courses

EDU 3251

Last Offered

Fall 2023, Fall 2021, Fall 2020, Fall 2019

EDU 4283: Meth Math Sec School

The curriculum, planning units, and lessons in the teaching area; general methods of teaching special methods, and instructional materials in the subject; including textbooks, courses of study and reference works; application of the principles and techniques studied in Education 3254 to teaching the subject; lesson plans, units and tests and in using methods, techniques, and materials in the subject; planned experiences and weekly assignments in neighboring secondary schools to observe, assist teachers and teach pupils in the subject.

Credits 3.0

Prerequisites

EDU 3251 :D-

Prerequisite Courses

EDU 3251

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2020

EDU 4285: Meth Soc Stud Sec School

The curriculum, planning units, and lessons in the teaching area; general/ methods of teaching, special methods, and instructional materials, in the subject, including textbooks, courses of study and reference works, application of the principles and techniques studied in Education 3254 to teaching the subject, practice in preparing lesson plans, units and tests and in using methods, techniques, and materials in the subject; planned experiences and weekly assignments in neighboring secondary schools to observe, assist teachers and teach pupils in the subject.

Credits 3.0

Prerequisites

EDU 3251 :D-

Prerequisite Courses

EDU 3251

Last Offered

Fall 2025, Fall 2024, Fall 2022, Fall 2021

EDU 4290: Philosophy of Education

The development of a sound personal philosophy of education and practice in applying that philosophy to current educational issues.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

EDU 4291: Student Teaching

Observation and teaching under actual classroom conditions in the student's field of teaching specialization; open only to students of the Senior year who have completed all the subject matter courses in the field of specialization.

Credits 9.0

Prerequisites

(EDU 2201 :D- or EDU 2202 :D-) and EDU 3251 :D-

Prerequisite Courses

EDU 2201

EDU 2202

EDU 3251

Corequisites

EDU 4292

Corequisite Courses

EDU 4292

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

EDU 4292: Senior Seminar

The student teaching experience; elements of school law; current educational issues; use of computers in the classroom; relationship of practice to theory; sharing of experiences, common problems and alternative teaching practices; open to student teachers.

Credits 3.0

Prerequisites

(EDU 2201 :D- or EDU 2202 :D-) and EDU 3251 :D-

Prerequisite Courses

EDU 2201

EDU 2202

EDU 3251

Corequisites

EDU 4291

Corequisite Courses

EDU 4291

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

Electrical and Computer Engineering

ECE 1205: ECE Freshman Projects

Project-based introduction to engineering course for freshman electrical and computer engineering majors.

Credits 3.0

Prerequisites

EGR 1200

Prerequisite Courses

EGR 1200

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ECE 1260: EGR Prog and Applic

Introductory C programming - engineering-focused algorithms and program development in C using: elementary data structures, conditional branching, loop control, console and file I/O operations, pseudo-random numbers, functions, strings, arrays, matrices, structures and pointer variables.

Credits 3.0

Corequisites

ECE 1261

Corequisite Courses

ECE 1261

Last Offered

Spring 2025, Spring 2024, Spring 2023

ECE 1261: EGR Prog and Applic Lab

Hands-on exercises in implementing, debugging and testing engineering-focused programs in Linux/C using an IDE; examples drawn from math, physics, audio and image processing, cybersecurity, peripheral device control, etc.s

Credits 1.0

Corequisites

ECE 1260

Corequisite Courses

ECE 1260

Last Offered

Spring 2025, Spring 2024, Spring 2023

ECE 1620: Egr Prog & Applic

Engineering problem solving using the C programming language, C control structures, data files, debugging, functions, arrays, elementary data structures, and pointers. Two lecture hours per week and 1 lab period per week.

Credits 3.0

Last Offered

Spring 2022, Spring 2021, Spring 2020, Spring 2019

ECE 2030: Electric Circuits Fundamentals

Basic concepts, steady-state dc circuit analysis, network theorems, energy storage elements, complete response of first-order circuits, steady-state sinusoidal circuit analysis, AC systems and Laplace Transform.

Credits 3.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Corequisites

ECE 2031

Corequisite Courses

ECE 2031

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

ECE 2031: Elect Circuit Fundamentals Lab

Must be taken concurrently with ECE 2030. Laboratory exercises cover electrical safety and laboratory practice, basic instrumentation, computer-aided circuit analysis, and application of electronic devices.

Credits 1.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Corequisites

ECE 2030

Corequisite Courses

ECE 2030

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

ECE 2042: Fundamentals of CPE I

Number systems (signed and unsigned), conversions, Binary arithmetic, digital logic design both combinatorial and sequential, counters and state machines as well as learning VHDL (a hardware creation language) to implement the digital logic.

Credits 3.0

Corequisites

ECE 2043

Corequisite Courses

ECE 2043

Last Offered

Fall 2023, Spring 2023, Fall 2022, Spring 2022

ECE 2043: Fund of Comp Engineering I Lab

This laboratory course is intended to be taken concurrently with ECE 2042. The laboratory includes exercises on logic design and on programming FPGA's using the VHDL language.

Credits 1.0

Corequisites

ECE 2042

Corequisite Courses

ECE 2042

Last Offered

Fall 2023, Spring 2023, Fall 2022, Spring 2022

ECE 2044: Fundamentals of CPE II

The fundamentals of computer operation will be explored with emphasis on how to interface with a general-purpose processor. An ARM processor will be utilized to demonstrate memory mapped I/O, assembly programming, interrupts, serial communication, and peripheral utilization.

Credits 3.0

Prerequisites

ECE 1620

Prerequisite Courses

ECE 1620

Corequisites

ECE 2045

Corequisite Courses

ECE 2045

Last Offered

Fall 2022, Fall 2021, Spring 2021, Spring 2020

ECE 2045: Fund Comp Engineering II Lab

This laboratory course is intended to be taken concurrently with ECE 2044. The laboratory utilizes an ARM microcontroller with assembly and C programming examples

Credits 1.0

Prerequisites

ECE 2042

Prerequisite Courses

ECE 2042

Corequisites

ECE 2044

Corequisite Courses

ECE 2044

Last Offered

Fall 2022, Fall 2021, Spring 2021, Spring 2020

ECE 2160: C++ Algorithms & Data Struct

C++ classes access rules, inheritance, friends, abstract classes, templates, passing parameters by value, by reference, polymorphism in functions and operators, static and dynamic binding, searching, sorting; pointer implementation of lists, stacks, queues, trees, analysis of algorithms; P, NP, Undecidable problems.

Credits 3.0

Prerequisites

ECE 1260 and ECE 1261

Prerequisite Courses

ECE 1260

ECE 1261

Corequisites

ECE 2161

Corequisite Courses

ECE 2161

Last Offered

Fall 2025, Fall 2024, Fall 2023

ECE 2161: C++ Algorithms&Data Struct Lab

Installation, familiarization with Linux and its IDE, C++ programming exercises incorporating classes and objects, templates, pointers, dynamic variables, file access, measurements of running times of two sorting algorithms, implementation of linked lists, queues and stacks using composition.

Credits 1.0

Prerequisites

ECE 1260 and ECE 1261

Prerequisite Courses

ECE 1260

ECE 1261

Corequisites

ECE 2160

Corequisite Courses

ECE 2160

Last Offered

Fall 2025, Fall 2024, Fall 2023

ECE 2170: Fundamentals of CPE

The fundamentals of computer operation will be explored with emphasis on how to interface with a general-purpose processor. An ARM processor will be utilized to demonstrate memory mapped I/O, assembly programming, interrupts, serial communication, and peripheral utilization.

Credits 3.0

Prerequisites

ECE 1260

Prerequisite Courses

ECE 1260

Corequisites

ECE 2171

Corequisite Courses

ECE 2171

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

ECE 2171: Fundamentals of CPE Lab

This laboratory course is intended to be taken concurrently with ECE 2171. The laboratory utilizes an ARM microcontroller with assembly and C programming examples.

Credits 1.0

Prerequisites

ECE 1260

Prerequisite Courses

ECE 1260

Corequisites

ECE 2170

Corequisite Courses

ECE 2170

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

ECE 2172: Digital Systems

Number systems (signed and unsigned), conversions, Binary arithmetic, digital logic design, both combinatorial and sequential, counters and state machines as well as learning VHDL (a hardware creation language) to implement the digital logic.

Credits 3.0

Corequisites

ECE 2173

Corequisite Courses

ECE 2173

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECE 2173: Digital Systems Lab

The laboratory course is intended to be taken concurrently with ECE 2172. The laboratory includes exercises on logic design and on programming FPGA's using the VHDL language.

Credits 1.0

Corequisites

ECE 2172

Corequisite Courses

ECE 2172

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECE 2260: EGR Prog and Applic II

Engineering focused algorithms and program development in an object-oriented language (like Python, Java etc.) using: object-oriented syntax and control structures; arrays; designing objects, classes, and methods; file handling; exception handling and debugging, scientific and engineering libraries.

Credits 3.0

Prerequisites

ECE 1260 and ECE 1261

Prerequisite Courses

ECE 1260

ECE 1261

ECE 2290: Engr System Models & Control

Modeling and analysis of electrical, mechanical, and electromechanical systems; open-loop and feedback systems; frequency domain models; state equations; linearization, time response; steady-state error; block diagrams and signal flow graphs; stability criteria; root locust method. Practicum includes laboratory experiments involving actual engineering systems. Three lecture hours and a two-hour practicum per week.

Credits 4.0

Prerequisites

ECE 2030 and ECE 2031 and PHY 2402

Prerequisite Courses

ECE 2030

ECE 2031

PHY 2402

Last Offered

Spring 2023, Spring 2022, Spring 2021, Spring 2020

ECE 2292: Engineering Probability&Stats

Basic set theory, axioms of probability, probability relationships. Concepts of a random variable. Joint random variables. Selected topics in statistics from: estimation, hypothesis testing and regression. Selected topics from: function of a random variable, random processes Markov chains, applications (e.g. reliability, queuing, microprocessor control, digital communications, detection).

Credits 3.0

Prerequisites

MAT 2705

Prerequisite Courses

MAT 2705

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECE 2409: Fundamentals of MATLAB

Use of MATLAB, a matrix oriented, high level programming language, for the simulation and modeling of physical systems. Matrix operations, extensive 2-dimensional and 3-dimensional graphing, introduction to MATLAB toolboxes. Lectures are conducted in parallel with hands-on programming and computer simulations. One lecture hour and one laboratory period per week.

Credits 2.0

Last Offered

Fall 2022, Summer 2022, Fall 2021, Fall 2020

ECE 2430: Embedded Systems

Introduction to logic design and digital computer fundamentals. Topics include computer arithmetic, Boolean algebra and logical design, basic concepts of computer architecture, programming and interfacing microcontrollers.

Credits 3.0

Prerequisites

ECE 1260

Prerequisite Courses

ECE 1260

Corequisites

ECE 2431

Corequisite Courses

ECE 2431

Last Offered

Spring 2024, Spring 2023, Spring 2022, Spring 2021

ECE 2431: Embedded Systems Lab

This laboratory course is intended to be taken concurrently with ECE 2430. The laboratory includes exercises on logic design and on programming and interfacing microcontrollers and programmable logic devices.

Credits 1.0

Prerequisites

ECE 1260

Prerequisite Courses

ECE 1260

Corequisites

ECE 2430

Corequisite Courses

ECE 2430

Last Offered

Spring 2024, Spring 2023, Spring 2022, Spring 2021

ECE 2530: Analog Electronics I

Basic electronic concepts. Waves and particles, semiconductor device physics, diodes and BJT circuits and amplifier circuits.

Credits 3.0

Prerequisites

ECE 2030 :D- and ECE 2031 :D-

Prerequisite Courses

ECE 2030

ECE 2031

Corequisites

ECE 2531

Corequisite Courses

ECE 2531

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ECE 2531: Analog Electronics I Lab

Must be taken concurrently with ECE 2530. Electronic circuit applications are investigated through laboratory design projects on semiconductor device physics, diodes and BJTs.

Credits 1.0

Prerequisites

ECE 2030 :D- and ECE 2031 :D-

Prerequisite Courses

ECE 2030

ECE 2031

Corequisites

ECE 2530

Corequisite Courses

ECE 2530

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ECE 2620: C++, Algorithms & Data Struct

C++ classes, access rules, inheritance, friends, abstract classes, templates, passing parameters by value, by reference, polymorphism in functions and operators, static and dynamic binding, searching, sorting; pointer implementation of lists, stacks, queues, trees, analysis of algorithms; P, NP, Undecidable problems.

Credits 4.0

Prerequisites

ECE 1620

Prerequisite Courses

ECE 1620

Last Offered

Fall 2022, Fall 2021, Fall 2020, Fall 2019

ECE 2800: Prof. Dev. Seminar

Various professional development activities including: initiation into mentoring program, introduction to engineering ethics and professional responsibilities, field trips and other events on contemporary issues, peer evaluation process, development of oral and written communication skills, workshops on a variety of professional skills.

Credits 2.0

Last Offered

Fall 2025, Spring 2024, Fall 2023, Spring 2023

ECE 3000: Engr Systems Models & Control

Modeling and analysis of electrical, mechanical, and electromechanical systems; open-loop and feedback systems; frequency domain models; state equations.

Credits 3.0

Prerequisites

ECE 2030 and ECE 2031 and ECE 3240

Prerequisite Courses

ECE 2030

ECE 2031

ECE 3240

Corequisites

ECE 3001

Corequisite Courses

ECE 3001

Last Offered

Spring 2025

ECE 3001: Engr Systems Model&Control Lab

This laboratory provides an applied experience integrating previous engineering concepts and laboratory experiences in the context of control systems and entails hardware implementation, measurement, and analysis

Credits 1.0

Prerequisites

ECE 3000

Prerequisite Courses

ECE 3000

Last Offered

Spring 2025

ECE 3020: Intro to Electric Energy Syste

Fundamentals of energy conversion and storage, conventional and renewable sources of energy, introduction to the electric energy system grid, control and economic operation of the electric energy system grid, and introduction to smart grid and smart metering technologies.

Credits 3.0

Prerequisites

ECE 2030

Prerequisite Courses

ECE 2030

Last Offered

Fall 2025, Fall 2024

ECE 3030: Engr Electromagnetics

Maxwell's equations, plane wave, dissipative media, reflection and transmission of waves at an interface, metallic and optical waveguides, transmission lines, linear and array antennas.

Credits 3.0

Prerequisites

MAT 2500 and PHY 2402

Prerequisite Courses

MAT 2500

PHY 2402

Corequisites

ECE 3031

Corequisite Courses

ECE 3031

Last Offered

Spring 2025

ECE 3031: Engr Electromagnetics Lab

Visualization through computer aided design tools, experiments and demonstration of solutions to Maxwell's equations, plane waves, dissipative media, reflection and transmission of waves at an interface, metallic waveguides and transmission lines.

Credits 1.0

Prerequisites

ECE 2500 and PHY 2402

Prerequisite Courses

PHY 2402

Corequisites

ECE 3030

Corequisite Courses

ECE 3030

Last Offered

Spring 2025

ECE 3040: Electrical Communications

Analog and digital communication systems: characterization of communication channels, bandwidth and signal distortion; AM and FM, FM stereo and Dolby noise reduction; sample and hold, source encoding, matched filtering, digital modulations and error control-coding.

Credits 3.0

Prerequisites

ECE 2030 and MAT 2705

Prerequisite Courses

ECE 2030

MAT 2705

Last Offered

Spring 2025

ECE 3170: Computer Architecture

Fundamentals of instruction set architecture (ISA) and processor & memory organization. Topics include ISA, arithmetic circuits, register file, single-cycle, multi-cycle, and pipelined microarchitecture, memory operation, cache, virtual memory, parallel architectures.

Credits 3.0

Prerequisites

ECE 2170 and ECE 2172 and

ECE 2173

Prerequisite Courses

ECE 2170

ECE 2172

ECE 2173

Corequisites

ECE 3171

Corequisite Courses

ECE 3171

Last Offered

Fall 2025, Fall 2024

ECE 3171: Computer Architecture Lab

Design, implementation, and test of various processor building components and memory units, which are integrated to build a single-cycle processor and a pipeline processor. An FPGA development board and design software are used.

Credits 1.0

Corequisites

ECE 3170

Corequisite Courses

ECE 3170

Last Offered

Fall 2025, Fall 2024

ECE 3180: Computer Networks

ISO/OSI, TCP/IP reference models; data transmission, encoding, framing, error detection, stop and wait, sliding windows; CSMA/CD, Ethernet; bridges, spanning tree protocol; connectionless, connection-oriented and source routing, IP addressing, forwarding, VPNs; switching fabrics; ARP, DHCP, DV, OSPF, BGP, DNS.

Credits 3.0

Prerequisites

ECE 1260 or CSC 2405

Prerequisite Courses

ECE 1260

CSC 2405

Last Offered

Spring 2025

ECE 3225: Signal Processing

Signal representation, Fourier series, Fourier transform, discrete-time systems, convolution, discrete-time Fourier transform, Z-transform. Practicum includes MATLAB exercises on transform properties and their use in modulation and filtering. Three lecture hours per week.

Credits 3.0

Prerequisites

ECE 2030 :D- and ECE 2409

:D- and MAT 2705 :D-

Prerequisite Courses

ECE 2030

ECE 2409

MAT 2705

Corequisites

ECE 3230

Corequisite Courses

ECE 3230

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2020

ECE 3230: Signals Lab

Use of MATLAB on filtering, channel equalization, music synthesis and spectrum analysis. Two-hour practicum per week.

Credits 1.0

Prerequisites

ECE 2409 :D- and MAT 2705 :D- and ECE 3225 :Y or ECE 3245 :Y

Prerequisite Courses

ECE 2409

MAT 2705

ECE 3225

ECE 3245

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

ECE 3242: Fundamentals of Signal Process

Overview of signals, types of signals, signal representation phasors, power and energy, Linear time invariant systems, convolution and impulse response; Fourier analysis and concept of frequency, Fourier transform, line spectrum; Discrete time signal analysis; Discrete Fourier transform (DFT), discrete-time convolution, z-transform.

Credits 3.0

Prerequisites

MAT 2705

Prerequisite Courses

MAT 2705

Last Offered

Fall 2025, Spring 2025, Fall 2024

ECE 3245: Discrete Time Signals & System

Discrete-time signal and system representation; sampling of continuous signals; discrete-time Fourier and Z-transformations; frequency content of signals and frequency response of systems; systems analysis and filtering.

Credits 3.0

Prerequisites

ECE 2409 :D- and MAT 2705 :D-

Prerequisite Courses

ECE 2409

MAT 2705

Corequisites

ECE 3230

Corequisite Courses

ECE 3230

Last Offered

Spring 2024, Spring 2023, Spring 2022, Spring 2021

ECE 3430: Embedded Systems II

Digital logic families with primary emphasis on external electrical characteristics of the logic devices. Applications and designs at the board-level, involving topics such as series/parallel conversion and analog/digital conversion.

Credits 3.0

Prerequisites

ECE 2430 :D- and ECE 2431 :D-

Prerequisite Courses

ECE 2430

ECE 2431

Last Offered

Fall 2021, Fall 2020, Fall 2019

ECE 3445: Computer Architecture

Fundamentals of instruction sets and their efficient execution - e.g., pipelines, caches, out-of-order execution, and branch prediction mechanisms. Performance analysis, superscalar, VLIW, multithreading, and multiprocessing are among the topics studied. Trace-driven simulators are used in practicums to explore concepts learned in class. Three lecture hours with a two-hour practicum each week.

Credits 4.0

Prerequisites

ECE 2043 and ECE 2044 and ECE 2045

Prerequisite Courses

ECE 2043

ECE 2044

ECE 2045

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2020

ECE 3450: Digital Electronics

Digital logic families with primary emphasis on external electrical characteristics of the logic devices. Applications and designs at the board-level, involving topics such as series/parallel conversion and analog/digital conversion.

Credits 3.0

Prerequisites

ECE 2030 :D- and ECE 2172 :D-

Prerequisite Courses

ECE 2030

ECE 2172

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ECE 3476: Computer and Network Security

Computer security in the context of the Internet, including hands-on exercises and experiments in the areas of authentication, attacks and threats, email and communication digital signatures and encryption, mobile devices, privacy, safe browsing and certificates.

Credits 3.0

Prerequisites

ECE 3180 :Y or CSC 2405

Prerequisite Courses

ECE 3180

CSC 2405

Last Offered

Spring 2025, Spring 2024,

Spring 2023, Spring 2022

ECE 3530: Analog Electronics II

Analysis, design, and simulation of analog electronic circuits. Single and multistage amplifiers, amplifier frequency response, power amplifiers, linear and nonlinear op-amp circuits, active filters, oscillators. MOSFET and CMOS circuits.

Credits 3.0

Prerequisites

ECE 2530 :D- and ECE 2531 :D-

Prerequisite Courses

ECE 2530

ECE 2531

Corequisites

ECE 3531

Corequisite Courses

ECE 3531

Last Offered

Fall 2025, Fall 2024, Fall 2023,

Fall 2022

ECE 3531: Analog Electronics II Lab

Must be taken concurrently with ECE 3530. MOSFET DC Circuits, Device Parameter Extraction from BJT and MOSFET, Single and Multistage Amplifier Designs & frequency response, Power Amplifier Design with Thermal Design Considerations (Application of Heat Sinks).

Credits 1.0

Prerequisites

ECE 2530 :D- and ECE 2531 :D-

Prerequisite Courses

ECE 2530

ECE 2531

Corequisites

ECE 3530

Corequisite Courses

ECE 3530

Last Offered

Fall 2025, Fall 2024, Fall 2023,

Fall 2022

ECE 3600: Operating Systems

System software design and implementation; process and resource management; concurrency, scheduling, and deadlock; memory management; file systems and security.

Credits 3.0

Prerequisites

ECE 2170 and ECE 2160

Prerequisite Courses

ECE 2170

ECE 2160

Last Offered

Fall 2024, Fall 2023, Fall 2022,

Fall 2021

ECE 3690: Engineering Electromagnetics

Maxwell's equations, plane waves, dissipative media, reflection and transmission of waves at an interface, metallic and optical waveguides, transmission lines, linear and array antennas. Practicum includes computer projects, laboratory demonstrations and problem solving. Three lecture hours and a two-hour practicum per week.

Credits 4.0

Prerequisites

MAT 2500 :D- and PHY 2402

:D-

Prerequisite Courses

MAT 2500

PHY 2402

Last Offered

Spring 2024, Spring 2023,

Spring 2022, Spring 2021

ECE 3720: Eng Probability & Statistics

Basic set theory, axioms of probability, probability relationships. Concepts of a random variable. Joint random variables. Selected topics in statistics from: estimation, hypothesis testing and regression. Selected topics from: functions of a random variable, random processes, Markov chains, applications (e.g. reliability, queuing, microprocessor control, digital communications, detection). Prerequisites: junior CPE or junior EE standing.

Credits 3.0

Last Offered

Spring 2024, Fall 2023, Spring

2023, Fall 2022

ECE 3770: Electrical Communications

Introducing the elements of a modern communication system including signal representation, bandwidth, modulation, spectrum and noise, communication channels, sampling of continuous signals and digital modulations. The practicum period includes Matlab simulation of concepts and operations.

Credits 4.0

Prerequisites

ECE 3225 :D- or ECE 3245 :D- and ECE 3720 :D-

Prerequisite Courses

ECE 3225

ECE 3245

ECE 3720

Last Offered

Spring 2024, Spring 2023, Spring 2022, Spring 2021

ECE 3970: Design Seminar - EE

Areas and career paths in electrical engineering. Overview of required senior project courses and faculty project sponsors. Engineering design, project selection requirements, technical communications, information gathering. Requires selection of design project adviser, project topic, and a formal written project proposal.

Credits 2.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ECE 3971: Design Seminar - CPE

Areas and career paths in computer engineering. Overview of required senior project courses and faculty project sponsors. Engineering design, project selection requirements, technical communications, information gathering. Requires selection of design project adviser, project topic, and a formal written project proposal.

Credits 2.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ECE 3975: ECE Capstone Design I

Overview of required senior project courses and faculty project sponsors. Engineering design, project selection requirements, technical communications, information gathering. Requires selection of design project advisor, project topic, and formal written project proposal.

Credits 3.0

ECE 4470: Computer Networks

ISO/OSI, TCP/IP reference models; data transmission, encoding, framing, error detection, stop-and-wait, sliding windows; CSMA/CD, Ethernet; bridges, spanning tree protocol; connectionless, connection-oriented and source routing, IP addressing, forwarding, VPNs; switching fabrics; ARP, DHCP, DV, OSPF, BGP, DNS.

Credits 4.0

Prerequisites

ECE 1620 or CSC 2405

Prerequisite Courses

ECE 1620

CSC 2405

Last Offered

Spring 2024, Spring 2023, Spring 2022, Spring 2021

ECE 4810: Intro. to Electric Energy Sys.

Fundamentals of energy conversion and storage, conventional and renewable sources of energy, introduction to the electric energy system grid, control and economic operation of the electric energy system grid, and introduction to smart grid and smart metering technologies.

Credits 3.0

Prerequisites

ECE 2030

Prerequisite Courses

ECE 2030

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2020

ECE 4970: Design Project - EE

Completion of the design project presented in ECE 3970. Requirements: written and oral progress reports, demonstration of achieved objectives, formal written final report, oral presentation. Design groups meet weekly with their instructors. Senior standing.

Credits 3.0

Prerequisites

ECE 3970 :D- or ECE 5900 :D-

Prerequisite Courses

ECE 3970

ECE 5900

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ECE 4971: Design Project - CPE

Completion of the design project presented in ECE 3971. Written and oral progress reports, demonstration of achieved objectives, formal written final report, oral presentation. Design groups meet weekly with their instructors. Senior standing.

Credits 3.0

Prerequisites

ECE 3971 :D-

Prerequisite Courses

ECE 3971

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

ECE 4972: Design Project Report - EE

Preparation and presentation of a final written report and a formal presentation of each project team's senior design project completed in ECE 4970.

Credits 1.0

Prerequisites

ECE 4970 :D-

Prerequisite Courses

ECE 4970

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECE 4973: Design Project Report - CPE

Preparation and presentation of a final written report and a formal presentation of each project team's senior design project completed in ECE 4971.

Credits 1.0

Prerequisites

ECE 4971 :D-

Prerequisite Courses

ECE 4971

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECE 4975: ECE Capstone Design II

Completion of the design project presented in ECE 3975. Requirements: written and oral progress reports, demonstration of achieved objective, formal written final report, oral presentation. Design groups meet weekly with their instructor. Senior standing required.

Credits 3.0

Prerequisites

ECE 3975

Prerequisite Courses

ECE 3975

ECE 5010: ECE Summer Internship

Academic credit for a summer internship. Requirements: Senior standing, a technical GPA of 3.0 or greater, and sponsorship by a full-time faculty member arranged prior to the start of the internship. Program details available from the Electrical and Computer Engineering Department Chairman, Tolentine Hall, Room 403. (610-519-4971).

Credits 3.0

Last Offered

Summer 2022, Summer 2021, Summer 2020, Summer 2019

ECE 5040: Deep Learning Methods in Wireless Communications

A primer on deep learning methods and their applications in wireless communications, including signal detection and classification, channel estimation, prediction, compression, and resource allocation using Matlab Deep Learning Toolbox.

Credits 3.0

Prerequisites

ECE 3225 or ECE 3245

Prerequisite Courses

ECE 3225

ECE 3245

ECE 5170: Intro to Post-Quantum Computing

Introduction to fundamental knowledge and skills related to quantum and post-quantum computing, basic and hands-on projects on different post-quantum cryptography schemes, brief introduction of emerging lightweight post-quantum techniques.

Credits 3.0

Last Offered

Spring 2023

ECE 5172: Fundamentals of Digital Hardware Design

Components and algorithms needed to create modern digital hardware with a sharp focus on hands on design using industry standard design automation and test tools.

Credits 3.0

ECE 5250: Biomedical Instrumentation

Introductory course in Biomedical Engineering emphasizing human physiology & medical measurement tools & techniques. Topics include the nervous system, the cardiovascular system & the respiratory system.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ECE 5251: Biomedical Signal Processing

Signal processing of biomedical signals. Cardiac, neurological, & electromyographic signal processing. Biomedical signal filtering, frequency analysis, spectrum estimation & physiological information extraction. Prerequisites: EGR 2021 or equivalent.

Credits 3.0

Prerequisites

ECE 3225 or ECE 3245 or EGR 2021

Prerequisite Courses

ECE 3225

ECE 3245

EGR 2021

Last Offered

Spring 2022, Spring 2020, Spring 2019, Spring 2017

ECE 5252: Medical Imaging

Principles of structural and functional medical imaging modalities: X-ray, Computed Tomography (CT), Magnetic Resonance Imaging (MRI), ultrasound and optical imaging. Fundamentals of biomedical image analysis: image acquisition and display, image enhancement, segmentation and registration as used in medical imaging applications. Prerequisites: EGR 2021 or equivalent.

Credits 3.0

Prerequisites

EGR 2021

Prerequisite Courses

EGR 2021

Last Offered

Spring 2025, Spring 2024

ECE 5390: Control System Design

Problem formulation, design techniques and evaluations, time domain and frequency domain design methods. Incorporates computer-aided analysis and design in conjunction with required laboratory projects. Three lecture hours and a two-hour practicum per week.

Credits 4.0

Prerequisites

ECE 2290

Prerequisite Courses

ECE 2290

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ECE 5400: Applied Machine Learning

Introduction to machine learning models and algorithms; Software techniques such as compression and pruning to enable efficient processing of neural networks. Hardware accelerators for training and inference process. Hardware/software optimization for using machine learning to solve practical problems.

Credits 3.0

Last Offered

Spring 2025, Spring 2023,
Spring 2022, Fall 2019

ECE 5450: Microcontrollers & Applic

ARM-Based microcontroller design and the following related topics: General purpose input/output, counters/timers, pulse-width modulation, A/D conversion, stepper motor control, use of integrated development environments, practical application programming in C.

Credits 3.0

Prerequisites

ECE 1620 or ECE 1260

Prerequisite Courses

ECE 1620

ECE 1260

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ECE 5690: Microwave Networks

Plane wave propagation; propagation in TEM transmission lines and waveguides; IMPATT; TRAPAT; Gunn-Effect and parametric devices; microstrip lines and microwave integrated circuits; laboratory work includes measurement of SWR, impedance, and power at microwave frequencies. Three lecture hours and a two-hour practicum per week.

Credits 4.0

Prerequisites

ECE 3530 and ECE 3690

Prerequisite Courses

ECE 3530

ECE 3690

Last Offered

Fall 2021, Fall 2020, Fall 2019,
Fall 2018

ECE 5730: RF Circuit Design

Design of active circuits and antennas for RF and wireless systems, including semiconductor control circuits, S-parameter based amplifier and oscillator design, mixers, and antennas for portable and base station applications. CAD tools and laboratory-based projects are emphasized.

Credits 3.0

Prerequisites

ECE 5690

Prerequisite Courses

ECE 5690

Last Offered

Spring 2021, Spring 2020,
Spring 2019, Spring 2017

ECE 5770: Organ-on-a-Chip

Microfluidic electrochemical biomimetic systems as a physical micron-scale model of a human organ for sensing pharmaceutical, cosmetics, and food ingredients toxicology. Combine fundamentals of field effect circuits, optics, fluid mechanics, soft-lithography, and biochemistry with an emphasis on life sciences applications.

Credits 3.0

Prerequisites

MAT 2705 :Y or EGR 2021 :Y or
ECE 2530 :Y and PHY 1102 or
PHY 2402 or PHY 2412

Prerequisite Courses

MAT 2705

EGR 2021

ECE 2530

PHY 1102

PHY 2402

PHY 2412

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2021

ECE 5900: Special Topics

Addresses a special topic in electrical and/or computer engineering of interest to faculty and students.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring
2024, Fall 2022

ECE 5991: Elec Eng Research I

Students work with faculty on current research topics. Weekly meetings with faculty adviser and a final written report and/or oral presentation are required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ECE 5992: Elec Eng Research II

Continuation of ECE 5991.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Engineering

EGEN 2100: Engineering a Creative Mindset

An introduction into diverse methods, practices, and tools to foster creative problem-solving. Engage in exercises and assignments to foster creativity. Delve into the link between creativity and innovation, unlocking potential for groundbreaking solutions.

Credits 1.0

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

EGEN 2150: Whole Systems in Intl Bus Dev

Students will gain a working understanding of whole systems thinking and technologies of interest to entrepreneurs in international business development. NOTE: Only available as part of the Engineering Entrepreneurship Summer Institute (E2SI)

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

EGEN 2200: Emerging Tech in Product Innov

This course explores emerging technologies and their impact on product innovation. Essential elements of opportunity analysis are examined including disruptive potential, technology feasibility, market analysis, and value creation. It emphasizes practical application, critical thinking, and ethical consideration in product development.

Credits 3.0

Prerequisites

Corequisites

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

EGEN 2400: Legal Essentials in Tech Entre

Learn the fundamental legal concepts for technology startups. Topics include intellectual property protection, contract formation, employment law, and regulatory compliance. Students develop practical knowledge for navigating legal challenges in tech entrepreneurship.

Credits 3.0

EGEN 2500: Social Impact Entrepreneurship

Social entrepreneurship combines entrepreneurial principles with social impact. This course explores innovative approaches to address societal challenges, create sustainable business models, measures social impact, and drive positive change through entrepreneurial ventures.

Credits 3.0

Last Offered

Fall 2025

EGEN 3100: Venture 1: Cust Discvry in PD

This course teaches the principles of value creation for new product development through customer discovery. Learn to empathize with users, ideate innovative solutions, and validate product concepts through experimentation. Gain indispensable skills to drive new product success and customer satisfaction. Pre-Reqs: EGEN-2200 or Permission of Engineering Entrepreneurship Program Director.

Credits 3.0

Prerequisites

EGEN 2200

Prerequisite Courses

EGEN 2200

Corequisites

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

EGEN 3200: Product & Service Prototyping

Team-based course focused on the design and construction of a proof-of-principle prototype which demonstrates a product or service. Students will create a high-level product design specification and conduct market and competitive analysis; hold consumer focus interviews and report findings.

Credits 3.0

Prerequisites

Corequisites

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

EGEN 4000: Eng Entre Independent Study

This independent study explores the fusion of engineering principles with entrepreneurial skills. Students will investigate how technical expertise can be leveraged to create innovative business solutions. Permission of the program director is required.

Credits 1.0

Prerequisites

Last Offered

Spring 2025

EGEN 4100: Venture 2: The Lean Startup

A follow-on course to EGEN 3100, learn to think like an entrepreneur and win startup investment. Employ cutting-edge lean startup, tools, and frameworks to craft dynamic MVP's, build business models and make the pitch for venture success.

Credits 3.0

Prerequisites

Last Offered

Summer 2025, Summer 2024, Fall 2023, Summer 2023

EGEN 5100: Medical Tech Commercialization

Working with a novel medical device, the course covers the process of medical technology commercialization. Topics include voice of the customer, clinical needs analysis, competitive positioning, and market entry strategy. Intellectual property management, regulatory process, and reimbursement are explored.

Credits 3.0

Last Offered

Spring 2022

EGR 1001: Career Compass IA

First course of the Career Compass professional development program. This first-year course focuses on setting the foundation for the program in six overarching competencies: Communication, Teamwork and Collaboration, Personal Development, Leadership, Networking and Relationship Building, and Career Development and Strategies.

Credits 0.5

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

EGR 1002: Career Compass IB

Second course of the Career Compass professional development program. Continues to build the foundation for the program in six overarching competencies: Communication, Teamwork and Collaboration, Personal Development, Leadership, Networking and Relationship Building, and Career Development and Strategies.

Credits 0.5

Last Offered

Summer 2025, Spring 2025,
Summer 2024, Spring 2024

EGR 1200: Engineering Design Cornerstone

This is a project-based course introducing students to the engineering profession and human-centered engineering design. Other concepts covered include communication, teamwork, data analysis, and social justice and Augustinian values in the context of engineering.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

EGR 2001: Egr: Humanistic Context

The biggest issues facing the world and the role engineering must play in the solutions will be examined. Constitutive groups will be identified, and experts will discuss the problems from their perspective area of expertise. Interdisciplinary engineering teams will be used to develop ethical, sustainable, and humanistic solutions to real world problems.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

EGR 2002: Intro to Humanitarian Engr

The Introduction to Humanitarian Engineering is the first in a series of courses intended to provide the context for undergraduate students who are interested in engaging with international program partners on global development challenges. This course provides background information about developing communities with a focus on historical issues related to colonization, development theory and poverty alleviation efforts. In addition, this course introduces technical issues related sustainable development with an emphasis on the role of external support, ethical engagement in community development and whole systems thinking. Finally, this course introduces practical skills in community engagement through a series of hands-on mini project activities, designed to provide students with the necessary skills to conduct field work with international partners.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

EGR 2003: Career Compass IIA

Third course of the Career Compass professional development program. This sophomore year course focuses on the continuation of the six overarching competencies: Communication, Teamwork and Collaboration, Personal Development, Leadership, Networking and Relationship Building, and Career Development and Strategies.

Credits 0.5

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

EGR 2004: Career Compass IIB

Fourth course of the Career Compass professional development program. This sophomore year course focuses on the continuation of the six overarching competencies: Communication, Teamwork and Collaboration, Personal Development, Leadership, Networking and Relationship Building, and Career Development Strategies.

Credits 0.5

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

EGR 2020: Physiology for Engineers

Structure and function of biomolecules, cells, tissues, organs, and organ systems (including musculoskeletal, circulatory, respiratory, and nervous systems).

Credits 3.0

Prerequisites

CHM 1151 :Y

Prerequisite Courses

CHM 1151

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

EGR 2021: Elements of Biomedical Engr

Survey of current topics in biomedical engineering; Engineering fundamentals (e.g., mechanics of materials, dynamics, transport, signal processing) with applications to biomedical engineering.

Credits 3.0

Prerequisites

MAT 2705 :Y and PHY 1100 or PHY 2400 or PHY 2410

Prerequisite Courses

MAT 2705

PHY 1100

PHY 2400

PHY 2410

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

EGR 2110: Sus Eng: Risks & Opportunities

One of two required core courses for the Sustainable Engineering Minor that introduces whole-systems thinking to address the dynamic field of sustainability. Topics include climate change, planetary boundaries, greenhouse gas management, climate change mitigation/adaptation, sustainable materials and disruptive technologies.

Credits 3.0

Last Offered

Fall 2022, Fall 2021

EGR 2930: Catholic Soc Teaching for EGRS

Tradition and key themes of Catholic Social Teaching and how engineers can incorporate these themes in developing solutions to engineering problems. Engineering topics and case studies will be analyzed, with emphasis on a comparison of "greater good" and "common good".

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Spring 2021, Fall 2020

EGR 3005: Career Compass IIIA

Fifth course of the Career Compass professional development program. This junior year course focuses on the continuation of the six overarching competencies: Communication, Teamwork and Collaboration, Personal Development, Leadership, Networking and Relationship Building, and Career Development Strategies.
Credits 0.5

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

EGR 3006: Career Compass IIIB

Final course of the Career Compass professional development program. This junior year course focuses on the continuation of the six overarching competencies: Communication, Teamwork and Collaboration, Personal Development, Leadership, Networking and Relationship Building, and Career Development Strategies.
Credits 0.5

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

EGR 4000: Undergraduate Research I

Student participation in independent research under faculty supervision, frequent conferences with advisor on literature search, theoretical and experimental research.
Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Summer 2023

EGR 4007: Profess. & the Def. of Success

Interdisciplinary course directly and specifically focused on professionalism as the path to near term and long term career success. Complimentary to senior year Capstone Design Experiences.
Credits 1.0

Prerequisites

EGR 3006

Prerequisite Courses

EGR 3006

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

EGR 4008: Profess: Your Key to Success

An in-depth analysis of required professional skills including leadership, management, ethical behavior, team and group dynamics, time management, listening, technical writing, negotiations and self-awareness delivered through a combined lecture/seminar format.
Credits 3.0

EGR 5001: Engineering Service Learning

Service learning experience related to engineering. Mandatory weekly group meetings as well as participation in seminar series. Fee associated with course. Consent of instructor required.
Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EGR 5002: EGR Service Learning Leader

Leading a service learning trip related to engineering. Mandatory weekly group meetings as well as participation in seminar series. Fee associated with course. Consent of instructor required.
Credits 1.0

Prerequisites

EGR 5001

Prerequisite Courses

EGR 5001

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EGR 5003: Engineering Svc Learning Capst

Engineering Service Learning Capstone.
Credits 1.0

Prerequisites

EGR 5001 :Y and EGR 5002 :Y

Prerequisite Courses

EGR 5001

EGR 5002

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

EGR 5050: Professional Practicum

Provides work experience for an undergraduate student who has been offered an opportunity to work in a field directly related to their major. Permission of Department of Chair and Associate Dean required.

Credits 0.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

English

ENG 1020: AP English Language & Comp

AP English Language and Composition is an introductory college-level composition course. Students cultivate understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style.

Credits 3.0

ENG 1040: English as 2nd Language

This course develops the academic reading, writing, and research skills of students new to undergraduate study in the U.S. for whom English is a second language. Course aims to refine grammatical, organizational, rhetorical, and genre-based skills crucial for success.

Credits 3.0

ENG 1050: The Literary Experience

Introduction to literature and the methods of literary analysis. Close readings of texts. Individual sections vary in the works covered.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Summer 2024, Spring 2024

ENG 1842: Perspectives in Literature

Close readings of literary texts, examined from particular thematic perspectives.

Individual sections vary in the works covered. Does not fulfill Core Curriculum requirements. Preference given to freshman students.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ENG 1903: Internship Elective

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ENG 1906: Internship Elective

Credits 6.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ENG 1909: Internship Elective

Credits 9.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ENG 1975: Core Lit and Writing Seminar

Careful reading of and intensive writing about literature. Individual sections vary in themes and works covered. Restricted to Arts & Sciences students governed by the New Core Curriculum instituted in Fall 2011.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

ENG 2000: Adv Expository Writing

Practice in writing reports, reviews, arguments, description; emphasis on organization and development.

Credits 3.0

Last Offered

Summer 2023, Summer 2022, Summer 2020, Summer 2019

ENG 2003: Intro to Creative Writing

Designed for students who wish to experiment with composing several kinds of creative writing: short fiction, creative nonfiction, and poetry.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ENG 2004: Writing Creative Nonfiction

Creative nonfiction has been described as "true stories well told." Students will write

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Fall 2022, Fall 2021

ENG 2005: Writing of Short Story

In this writing workshop course, we will explore setting, point of view, characterization, plot and other craft elements that make short stories run. We will read influential authors and give feedback to one another to foster our growth as writers.

Credits 3.0

Last Offered

Fall 2025, Spring 2024, Spring 2023, Fall 2021

ENG 2006: The Writing of Poetry

Instruction in poetry writing, including how to craft imagery, figurative language, sound, line, and rhythm, as well as traditional and contemporary forms. Students read widely and write lyric, narrative and experimental poems that are shared in a supportive workshop setting.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring 2024, Spring 2023

ENG 2009: Writing the Traditional Novel

A creative writing workshop course designed for students eager to leap into the complex process of writing a novella or short novel. Students will close-read short novels to analyze elements of craft and workshop sections of their own novel in-progress.

Credits 3.0

Last Offered

Spring 2025, Spring 2022, Fall 2020, Spring 2020

ENG 2012: Advanced Creative Writing

Usually taught by visiting professors. For writers of poetry and short fiction. Reading of models of exemplary technique and application of these to students' own work. Critical feedback from peers and professors.

Credits 3.0

Last Offered

Spring 2022, Spring 2019, Fall 2018

ENG 2013: Writing of Memoir

Memoir is an opportunity to understand life. This writing workshop provides students with practical skills in reading and writing about the events, memories, places that inform their lives.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2020

ENG 2017: Writing Detective Fiction

Do you love detective fiction? Have you always wanted to write your own "whodunit?" In this course

Credits 3.0

Last Offered

Fall 2024, Spring 2023, Fall 2020

ENG 2018: Nature Writing Workshop

The natural world will be a source for the creative non-fiction, poetry, and fiction pieces students will write in this class. Through readings, field trips, writing exercises, and workshops students will learn to sharpen their language and see more deeply.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ENG 2019: Writing for Social Change

Can stories change society? In this workshop you will braid your social justice, environmental, healthcare, and migration interests into creative pieces. We will read works by contemporary writers that address existing problems and call for justice, resistance, equality, activism.

Credits 3.0

Last Offered

Spring 2024, Spring 2021

ENG 2020: Digital Journalism

Introduces students to the fundamentals of journalism, with an emphasis on digital media. Class will focus on the ins and outs of digital journalism as a practice, with students gaining hands-on experience within a variety of media platforms.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

ENG 2021: Journalism for Co-ops

Journalistic principles and practice for students doing individual co-ops via ENG 2999. Distance learning.

Credits 3.0

Corequisites

ENG 2999

Corequisite Courses

ENG 2999

Last Offered

Spring 2022, Spring 2021, Fall 2020, Spring 2020

ENG 2022: Writing Through Conflict

In this creative writing workshop you will study contemporary Irish/Northern Irish writers while working on your own creative pieces. Over semester break, you will travel to Belfast for a week of seminars and creative writing workshops at the Seamus Heaney Centre.

Credits 3.0

Last Offered

Spring 2025, Fall 2022

ENG 2023: Journalism

Introduces students to key techniques of news gathering and news writing. We will also explore the principles and rules that guide the writing of news pieces, editorials, and features.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022

ENG 2024: Scriptwriting

In this creative writing course, students will study drama and techniques that lead to developing characters, crafting stories, and writing scenes. In the collaborative scriptwriting workshop, students will work as authors, editors, and critics, ultimately each crafting a one-act play.

Credits 3.0

Last Offered

Spring 2025

ENG 2025: Making Comics

We will make, understand, and appreciate the storytelling medium of comics. For artists, writers and enthusiasts of all levels; no drawing experience necessary. Through exercises, readings and collaborative assignments, students learn the language of comics and create their own stories.

Credits 3.0

Last Offered

Spring 2025

ENG 2030: Tutoring Writers

Theory and practice of Writing Center Work; writing, editing and tutoring skills. Permission of instructor required.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ENG 2043: Worldwide Popular Culture

An analysis of notable works of art, music, literature, video and social media created by people of various international, ethnic and minoritized groups to publicize situations of importance to their communities.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring 2022, Fall 2015

ENG 2046: Teach ENG to Non-Nat Speaker

This service-learning course provides students with the background, tools, and experience needed to teach English to non-native speakers. In addition to classes at Villanova, students practice teaching at a Hispanic culture center.

Credits 3.0

Last Offered

Spring 2020

ENG 2051: Sports Writing

Sports are more than games; they're a crucible for examining human experience. By examining the work of some of the genre's best writers, students will learn to report and write about this arena with deeper understanding and insight.

Credits 3.0

ENG 2061: Editing & Publishing

Literary publishing in a diverse, compelling field involving both art and commerce. This hands-on class explores the economic, social, and artistic forces that shape contemporary literature. Grapple with what it means to "make culture" while honing editorial skills."

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ENG 2070: Legal Writing and Analysis

Fundamentals of legal writing and analysis.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ENG 2250: Ways of Reading:Lit Analysis

An exploration of how we engage, understand, explicate, and enjoy texts of all sorts.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ENG 2300: Women in Literature

Study of the place of women in literature, with emphasis on modern fiction, drama and poetry written in English.

Credits 3.0

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2020

ENG 2302: Apocalyptic Literature

One of the oldest forms of narrative, apocalyptic literature is more popular - and powerful - than ever. Starting with Revelation, this course traces this tradition through fascinating poems, stories, novellas, novels and films to the present day.

Credits 3.0

Last Offered

Spring 2024, Spring 2022, Spring 2020

ENG 2304: Cont World Lit & Environment

The study of global contemporary fiction, poetry, creative non-fiction, and film that focuses on the environment, climate change, social justice and the future of nature.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Fall 2021, Fall 2020

ENG 2305: Black Life Writing

Examines major autobiographies by African American and Africans, exploring self, truth, the body politic, and construction of identity. These authors develop crucial dimensions of black intellectual self-representation, whether as individuals or as part of a larger portrait of Black lives.

Credits 3.0

Last Offered

Spring 2022, Spring 2021, Fall 2001, Spring 2001

ENG 2306: Harry Potter:Quests/Questions

In this course we will use the tools of literary analysis to discuss all seven Harry Potter novels. Central topics will include how the series evolves; Rowling's use of novelistic form, character and characterizations, and literary models; and the books' representations of gender, class, and other social issues.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ENG 2341: American Short Story

The short story can span vast reaches of time and space within a few pages. We examine a range of American short stories, from the fanciful to the frightening, with particular attention to questions of race, gender, and sexuality.

Credits 3.0

ENG 2350: Narrative Television

Plot, character, voice, point of view in visual, aural, dramatic, and verbal aspects of serial television. What works similarly or differently in television and prose fiction? In television and film?

Credits 3.0

Last Offered

Fall 2023, Spring 2022, Spring 2021, Spring 2020

ENG 2360: Adaptation:Film as Literature

The relationship between movies and literature dates back to film's earliest days. Comparing films and texts allows for an explanation of storytelling and the fascinating choices auteurs make. Plot, tone, and symbolism are considered alongside questions of power and representation.

Credits 3.0

Last Offered

Spring 2024, Spring 2023, Spring 2021, Spring 2020

ENG 2400: Classical Hero in Ancient Lit

In this course we delve into some of the most famous/influential works of classical Western literature, including Homer, Sophocles, Euripides, and Virgil. We discuss issues such as war, glory, political power, the place of the gods, and tragic loss.

Credits 3.0

Last Offered

Spring 2025, Fall 2022, Fall 2020, Fall 2018

ENG 2610: Tutorial Readings

Program of approved readings under the supervision of a selected faculty member; examination on readings and a lengthy paper required. Restricted to senior English majors with high cumulative averages. Permission of chair required; ordinarily may not be repeated.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ENG 2790: Topics in Lit. and Culture

Specific topics vary each semester.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Summer 2024, Spring 2024

ENG 2800: Teaching Practicum

Open only to senior English majors with a GPA of at least 3.5. Permission of consulting teacher and chair required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ENG 2801: Editing Law

Law is consistently criticized for lacking the ABCs of effective legal writing: accuracy, brevity, and clarity. Using current laws, students will learn how to edit legal writing to improve its readability and advocate more effectively for clients.

Credits 1.0

Last Offered

Spring 2025

ENG 2991: English Majors in Workplace

Communicating and applying skills of English Majors in the workplace.

Credits 1.0

Last Offered

Spring 2024, Spring 2023, Fall 2022, Fall 2021

ENG 2992: English Topics Abroad

Co-requisite 1-credit course designed to provide an embedded study-abroad experience to complement a requisite English course.

Credits 1.0

Corequisites

ENG 2022

Corequisite Courses

ENG 2022

Last Offered

Spring 2025, Fall 2022, Spring 2019

ENG 2993: Internship

Internship

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

ENG 2994: Reading and Community

Studying the kind of reading that takes place outside of the classroom in book groups and community reads, this course practices reading in community while studying hot new books selected by students in the course.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023

ENG 2996: Internship

Credits 6.0

Prerequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

ENG 2999: Publishing Co-op

Full-time employment with a selected firm in the area of publishing, where experience is gained through appropriate training, instruction, and supervision. Approval of English Department Chair required.

Credits 9.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ENG 3001: Foundational Lit in ENG 1

Influential British literature from beginnings to 1750, tracing key ideas, power relations, and genres that still impact literature in English, and Anglophone culture, today. Relationships between writing and political change, media history, gender, spirituality, the environment, oppression and liberation.

Credits 3.0

Last Offered

Spring 2023, Fall 2021

ENG 3150: Chaucer

This course introduces the work of Geoffrey Chaucer through a reading of his lively collection of stories and storytellers, The Canterbury Tales. Through its devout stories, explicit comedies, and probing romances, we will explore medieval society, Chaucer's insights on subjectivity, and influential medieval genres.

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Fall 2019, Fall 2017

ENG 3160: Fabulous Middle Ages

The Middle Ages mixed history (historia) and fable (fabula) freely. This course traces the intersections between the fabulous (the fictional and fantastic) and the (real) in medieval narratives about the history, global travel, and the natural world.

Credits 3.0

Last Offered

Spring 2025, Spring 2020

ENG 3170: Love & War in Medieval Romance

Medieval romances - texts about chivalry and love - have shaped everything from racial identity to flirting. This course considers how romances depict sexuality and gender; construct notions of religious otherness; and shape ideas about peoples and political power.

Credits 3.0

Last Offered

Fall 2025, Spring 2021

ENG 3181: Irish Epics, Visions&Hauntings

A study of Irish literature from its origins in the world of Celtic mythology, epic and saga through the development of Anglo-Irish literature.

Credits 3.0

Last Offered

Fall 2024, Fall 2020

ENG 3195: Medieval Saints and Sinners

In this course, we will consider how and why secular Renaissance plays adapt plots, characters, and motifs of medieval religious literature, and how they both exploit and challenge medieval moral extremes, including the saint, martyr, virgin, whore, torturer, pagan, and devil.

Credits 3.0

ENG 3250: Shakespeare

This course studies the plays and/or poems of Shakespeare. It may be focused on a particular genre of Shakespeare's work, a period in his career, or a topic. The course seeks to develop students' appreciation of Shakespeare's artistry and relevance.

Credits 3.0

Last Offered

Fall 2025, Spring 2023, Spring 2022, Fall 2019

ENG 3260: Revenge Tragedy

This course studies a popular and influential type of Renaissance drama: the revenge tragedy, a genre preoccupied with spectacular acts of murder and revenge and with the psychological, social, familial, and political circumstances that motivate and justify violent revenge.

Credits 3.0

Last Offered

Fall 2023, Spring 2021

ENG 3350: Milton

The writing of John Milton has fascinated and infuriated English-speaking people for 350 years. We explore why Milton's sometimes radical ideas about conscience, liberty, gender, and marriage remain influential, and how other writers (especially women) have responded to Milton.

Credits 3.0

Last Offered

Spring 2024, Fall 2022, Fall 2020, Fall 2018

ENG 3425: British Gothic Fiction

Traces the development of British gothic fiction from the late eighteenth century to today, exploring its themes of violence, sexuality, anxiety and social turmoil alongside its historical contexts and major theoretical approaches to understanding this genre.

Credits 3.0

Last Offered

Spring 2022

ENG 3426: Science, Lit & Enlightenment

In this course, students will read and analyze some of the key philosophical texts that established the founding principles of modern science alongside literary texts from different genres that explore science's social meaning and its moral and political implications.

Credits 3.0

ENG 3427: Adventures in 18th Century Lit

Analyzing realist novels, witty comedies, original tales, and mock epic-poems, we will explore the techniques and styles of authors fascinated by adventure and committed to the power of human reason to discover novel truths about nature, politics, and the rise of a modern commercial economy.

Credits 3.0

ENG 3428: Brit Novel in Romantic Period

Tracing the expansion in the scope and popularity of the novel as a literary form, we will consider how the major political developments of the Romantic period including the French Revolution and the abolition of the slave trade, shaped its central themes of transgression, violence, and the precariousness of social order.

Credits 3.0

Last Offered
Spring 2023

ENG 3440: Harlots, Rakes, & Libertines

Discover the Libertine authors of the seventeenth and eighteenth century, whose witty, scandalous works promoted a freethinking philosophy of sexual pleasure and individual freedom, and provoked critics who blamed them for modern social problems such as prostitution, poverty, and crime.

Credits 3.0

Last Offered
Fall 2023, Spring 2020

ENG 3500: Foundational Lit. in English 2

Influential British and Irish literature since about 1800 (covering the period after ENG 3001), exploring key ideas, power relations, and genres that still shape literature in English today. Topics include political change, gender, artist and audience, and the environment.

Credits 3.0

ENG 3507: Strange Cases: Imagined

Explore literary responses to pivotal developments in medical science and practice from the eighteenth century to the present. Study works that engage with the new ideas about illness, treatment, and disability that arose alongside changing understandings of the human body.

Credits 3.0

Last Offered
Spring 2025, Fall 2022, Spring 2021

ENG 3508: Jane Austen Then and Now

Jane Austen's novels have never been more popular than they are today. To understand why, we will read several, exploring their historical context and reception, as well as influential modern critical interpretations and the most interesting recent movie adaptations.

Credits 3.0

Last Offered
Fall 2025

ENG 3530: Victorian Doubles

Investigate how Victorian literature represents doubles - self and other, women and men, past and present, public and private - and study changing constructions of gender, industrialization, and imperial expansion in nineteenth-century Britain.

Credits 3.0

Last Offered
Spring 2025, Fall 2021, Spring 2020

ENG 3535: Gender, Authorship & Anonymity

This class studies how and why women writers used pseudonyms and forged collective authorial identities to grapple with gendered expectations. It considers the knotty politics of authorship, biography, and autobiography in nineteenth-century Britain and the twenty-first century.

Credits 3.0

Last Offered
Fall 2023, Spring 2022

ENG 3540: Institutional Fictions

This course examines the intriguing relationship between literature and institutions, including governments, schools and prisons. Reading nineteenth-century literature in relation to our contemporary moment, we focus especially on universities, interrogating students' experiences of universities and institutional narratives about universities.

Credits 3.0

Last Offered

Spring 2024, Spring 2021

ENG 3550: Victorian Publics & Populations

Reading nineteenth-century literature with an eye to who was reading, what they were reading, and how this reading shaped political debates, we'll consider the Victorian Britain's burgeoning print culture, mass movements, colonial publics, and emergent demographic thinking.

Credits 3.0

Last Offered

Fall 2024

ENG 3580: Topics in 19th C Irish Lit&Cul

Special topic in 19th century Irish literature and culture. For access to the full course description, go to this course number in the Villanova Master Schedule and click on the "syllabus available" link."

Credits 3.0

Last Offered

Fall 2020

ENG 3615: James Joyce

How do you read a big novel like *Ulysses*, the master novel that is always atop the greatest novel ever lists? This course will take many different approaches - using films, music, audio recordings, graphic novels, guidebooks, and Joyce's letters.

Credits 3.0

Last Offered

Spring 2025, Spring 2022, Fall 2017, Fall 2014

ENG 3616: Irish American Drama & Film

Films from Ireland, Northern Ireland, and the Irish diaspora tracing developments from early cinema to the contemporary era.

Credits 3.0

Last Offered

Fall 2022, Spring 2012, Spring 2011, Spring 2010

ENG 3617: Irish Revivalism

Study of Irish Revival of the late-nineteenth and early-twentieth century; focus on revivalism, gender, and colonial politics, reading multiple literary genres, beginning with Jane Wilde and William Butler Yeats.

Credits 3.0

ENG 3618: Intro to African Lit I

Chronological study of forms of cultural and literary production in Africa. Begins from oral epic traditions up to late 20th century written literatures. Examines postcolonial theory and the issues of language and "authenticity" in representations of African societies."

Credits 3.0

ENG 3619: Intro to African Lit II

Continuation of study of the various literary practices in Africa, from the late 20th-century writing to 21st-century artists. In addition to postcolonial representation, examines African feminism, Afropolitanism, and Africa and Diaspora intersections in age of globalization.

Credits 3.0

ENG 3620: Modern British Novel

Modernism exploded onto the literary scene when writers, exhausted by Victorian strictures, explored experimental forms, taboo language, and new ideas about empire, sexuality, race, and technology. We will read 20th-century British novels from 1900 through World War II.
Credits 3.0

Last Offered

Fall 2024, Fall 2022, Spring 2016, Fall 2013

ENG 3621: Contemp British Novel

This course explores British fiction written after the second World War until today. What stories do novelists tell about the meaning of "Britishness" after the British empire? We investigate themes of nostalgia
Credits 3.0

Last Offered

Fall 2023, Fall 2020, Fall 2018, Spring 2017

ENG 3622: Virginia Woolf

Virginia Woolf, novelist, essayist, and diarist, is one of the most influential 20th-Century Writers. Woolf explores the self, modernity, depression, and the joy of an ardent feminist life. We will read Woolf's novels and contemporary debates about form, gender, and sexuality.
Credits 3.0

Last Offered

Spring 2023, Spring 2021

ENG 3640: Irish Drama

Irish plays and performances including Abbey Theatre plays by William Butler Yeats, Augusta Gregory, John Millington Synge, and Teresa Deevy, followed by works by Samuel Beckett, Brian Friel, Marina Carr and new Irish theatre.
Credits 3.0

ENG 3650: African Drama

Examination of the aesthetics, politics, and practices of the theatre and drama in Africa. Focused on written plays, course explores drama performances on stage, television, and movies. Introduces students to role-playing and small-scale adaptation of texts to American contexts.
Credits 3.0

ENG 3660: Contemp. Lit & Film of India

India produces some of the most innovative and engrossing literature in the world, while also releasing more films than any other nation. Through both forms, we'll explore debates in contemporary India concerning border tensions, caste, gender, fantasy, and imperial histories.
Credits 3.0

Last Offered

Spring 2024, Spring 2023, Spring 2021

ENG 3661: Black British Literature & Film

Focusing on notions of "blackness" and emigration
Credits 3.0

Last Offered

Spring 2024

ENG 3680: Top: 20th-21st C Irish Lit&Cul

Special topic in 20th-21st century Irish literature and culture. For access to the full course description, go to this course number on the Villanova Master Schedule and click on "syllabus available" link.
Credits 3.0

Last Offered

Summer 2024, Summer 2023, Spring 2023, Fall 2022

ENG 3682: Contemporary Irish Literature

Readings of Irish poets and prose writers of the last fifty years, starting with Seamus Heaney and Edna O'Brien, and including contemporary works by visiting Irish Heimbald Chairs.
Credits 3.0

ENG 3690: Br/Ir Lit. & Cult. after 1945

Specific topics vary each semester.
Credits 3.0

Last Offered

Fall 2021, Spring 2019, Spring 2018, Spring 2017

ENG 3691: Br/Ir Lit. & Cult. after 1945

Specific topics vary each semester.

Credits 3.0

Last Offered

Spring 2009

ENG 4000: American Literary Trad 1

What makes literature "American"? Who gets to decide? This course examines how literary traditions developed and changed in nineteenth-century America

Credits 3.0

Last Offered

Fall 2024, Spring 2023, Fall 2021

ENG 4001: Major American Writers I

This course offers a focused examination of a handful of key American writers from early influential voices to major figures publishing to 1945. Significant time will be given to each writer, and a range of genres and themes will be considered.

Credits 3.0

Last Offered

Spring 2020, Spring 2019, Fall 2018, Fall 2017

ENG 4003: African-American Lit Trad 1

Black people helped craft the narrative of their lived experiences from their arrival in the New World. Students read the earliest African American literary offerings through the first decade of the twentieth century, including political treatise, autobiography, poetry and novels.

Credits 3.0

Last Offered

Spring 2020

ENG 4010: Early American Textual Bodies

This course asks: how can we read about early American bodies, and how are bodies legible? We will chart how Indigenous, Black, and settler persons used developing forms and genres to navigate identity in texts from sixteenth- through nineteenth- century America.

Credits 3.0

Last Offered

Spring 2024, Spring 2022

ENG 4015: Why Indigenous Lit Matters

This course introduces students to a vivid spectrum of Indigenous literatures, exploring how Indigenous peoples have expressed their truths and imagined their futures. We will ask what makes something "literary"? Why do Indigenous literatures matter, inside and outside our classroom?

Credits 3.0

Last Offered

Fall 2023

ENG 4502: The Black Atlantic

This interdisciplinary course looks at the history and literature of the transatlantic slave trade, which fundamentally altered Europe, Africa, and the Americas during the early modern era. It also considers the diasporic Black culture that emerged during and after slavery.

Credits 3.0

Last Offered

Fall 2021

ENG 4503: Indigenous Lit of the Americas

How have Indigenous peoples of the Americas created their own literary traditions? This course introduces students to a wide range of Indigenous literatures produced before 1900, examining how Native writers navigated varying forms that challenge conventional understandings of "literature".

Credits 3.0

ENG 4510: Early American Poetry

We will immerse ourselves in four transformative poets -- Anne Bradstreet, Phillis Wheatly Peters, Walt Whitman, and Emily Dickinson -- while also considering how their lives and work have inspired contemporary culture from prestige television to Taylor Swift.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Fall 2022, Spring 2012

ENG 4515: American Gothic

The nature and evolution of horror writing in America from the eighteenth-century to today.

Credits 3.0

Last Offered

Fall 2020, Fall 2019, Spring 2018, Spring 2017

ENG 4520: American Novel to 1945

The genesis of the American novel.

Credits 3.0

Last Offered

Spring 2025, Fall 2016, Fall 2015, Fall 2014

ENG 4545: Early American Novel

This course survey's groundbreaking U.S. novels from the American Revolution to the Civil War. We'll focus on literary aesthetics as well as how novels affirm or resist prevailing politics, paying particular attention to racism, settler colonialism, capitalism, and patriarchy.

Credits 3.0

Last Offered

Spring 2021

ENG 4590: Am. Lit. & Cult. before 1945

Specific topics vary each semester.

Credits 3.0

Last Offered

Spring 2018, Fall 2017, Spring 2017, Fall 2012

ENG 4591: Am. Lit. & Cult. before 1945

Specific topics vary each semester.

Credits 3.0

ENG 4600: Amer Literary Trad 2

A survey of American literature from 1945 to the present, meant to give students familiarity with a wide range of authors and genres who have contributed significantly to American writing in the 20th century and beyond.

Credits 3.0

ENG 4601: Major American Writers II

This course offers a focused examination of a selection of the most influential American writers writing from 1945 to the present. Significant time will be given to each writer, and a range of genres and themes will be considered.

Credits 3.0

ENG 4602: African American Lit Trad 2

Contemporary African American literature narrates exciting social, political and aesthetic changes in the US. Students will read a variety of literature, including essays, short stories, poetry, novels and plays, beginning with the Harlem Renaissance to today.

Credits 3.0

ENG 4603: African American Short Story

African American short fiction has taken on a number of forms throughout the 20th and 21st century. Students will read works by writers diverse as Charles Chesnutt, Zora Neale Hurston, James Baldwin, Alice Walker, Toni Morrison, Octavia Butler and Edwidge Danticat.

Credits 3.0

ENG 4606: Alone Together-Social Dist Lit

How can we feel connected even when alone? This course explores how the activities of reading and writing produce the strange and sustaining feeling of being alone together. We'll examine examples of this paradoxical condition in recent fiction and poetry.

Credits 3.0

Last Offered
Spring 2021

ENG 4610: African American Poetry

The exquisite poetry of 18th, 19th, 20th and 21st century African American writers, like Wheatley, Dunbar, Johnson, Hughes, Brooks, Sanchez, Giovanni, Angelou, Dove, Rankine and Mullen introduces students to a range of experience and the power of language.

Credits 3.0

ENG 4618: Harlem Renaissance

F. Scott Fitzgerald called the years between the wars the "Jazz Age." Folks uptown recognized that a Renaissance was happening in Harlem. Students will study major works by African Americans written during the 1920s and 1930s."

Credits 3.0

ENG 4623: African American Novel

From American slavery to Afrofuturism, writers of the African American novel have explored the lived experience of black people in America and throughout the African Diaspora.

Credits 3.0

ENG 4624: Crime Fiction and Gender

This course studies crime and detective fiction as an intellectually rich phenomenon preoccupied by gender and sexuality. It examines how crime narratives from the nineteenth century to the present critique socioeconomic realities and address fundamental questions about the nature of knowledge.

Credits 3.0

Last Offered
Fall 2023

ENG 4630: American Drama 1945 to Present

Major plays of the period.

Credits 3.0

Last Offered
Spring 2014, Fall 2011, Summer 2010, Fall 2009

ENG 4632: African American Drama

"The play's the thing" to capture the conscience of not only a king but a nation. Students will read plays written by African Americans including Lorraine Hansberry

Credits 3.0

Last Offered
Spring 2025, Spring 2022

ENG 4635: Contemporary American Poetry

Focused study of contemporary American poetry emphasizing gender, ethnicity, aesthetic principles or genre.

Credits 3.0

Last Offered
Spring 2023, Spring 2011, Fall 2005

ENG 4641: American Immigrant Narratives

This course examines the fierce, vibrant strain of writing by immigrants who have pushed beyond boundaries of genre and nation to tell their stories. It focuses on fiction and creative nonfiction published in the U.S. after 1900.

Credits 3.0

ENG 4646: Race & Ethnicity: Amer Novel

Canonical texts that treat questions of race and ethnicity. Focus on the critical role of language and literature in constructing and deconstructing racial categories.

Credits 3.0

Last Offered

Fall 2024, Spring 2023, Spring 2021, Fall 2017

ENG 4647: Gender & Sexuality in US Lit

This course examines a fascinating range of contemporary US literary texts to explore the ways that gender and sexuality intersect with race, class and other categories of identity to form our experiences of selfhood, community, national belonging, and power.

Credits 3.0

Last Offered

Spring 2025, Fall 2023, Spring 2020

ENG 4648: U.S. Empire & Cont. Am. Lit.

Examines American literature in the context of U.S. empire, including histories and effects of settler colonialism, overseas expansion, and war. Focuses on authors of color from 1945 to the present.

Credits 3.0

Last Offered

Fall 2020

ENG 4649: Intro to Asian American Lit

Examines literature, film, art, and other cultural productions by Asian Americans and explores Asian American histories from the early 20th century to the present.

Credits 3.0

Last Offered

Fall 2025, Spring 2024

ENG 4651: Lives of the Undocumented

What does it mean to be "undocumented?" In this course

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2021

ENG 4652: Letters, Texts, & Twitter

How does writing bring together distant lovers, friends, family? We'll read letters, the digital forms (social media, instant messaging) that have replaced them, and their representation in novels, poems, and essays to explore how intimacy forms across distance.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2020

ENG 4653: Work/ Play in Cont. Latinx Lit

Through fiction, nonfiction, poetry, and genre-bending texts and performances by Latina/o/x/writers, this course will ask: How has Latinx cultural production inscribed and sometimes joyously subverted language, border and immigration politics from the 1960's to the present?

Credits 3.0

Last Offered

Fall 2022

ENG 4654: 25 Poems

To be alive today is to feel distracted. This course offers us the chance to slow down. We read just one short poem per class meeting and learn how to give it our full attention, in writing and in conversation.

Credits 3.0

Last Offered

Spring 2025, Spring 2024

ENG 4655: Cont Lit & Film in Translation

This course taught in English introduces students to contemporary world literature and cinema in translation. The study of these texts as translations equips students with an understanding of how translation allows movement among diverse languages and cultures, including our own.

Credits 3.0

Last Offered

Spring 2025

ENG 4690: Amer. Lit. & Cult. after 1945

Specific topics vary each semester.

Credits 3.0

Last Offered

Fall 2024, Spring 2024, Spring 2023, Spring 2022

ENG 4691: Amer. Lit. & Cult. after 1945

Specific topics vary each semester.

Credits 3.0

Last Offered

Spring 2016, Spring 2014, Fall 2013, Spring 2013

ENG 4700: Caribbean Literature

Explores representations of the culture and history of the Caribbean in the literary and performance traditions of creative artists from the region. Examines postcolonial discourse and folklore aesthetics across genres and in cultural forms such as carnival and Caribbean music.

Credits 3.0

Last Offered

Summer 2020

ENG 4702: Authors On & Off the Page

Do you love to write? Dream of visiting with authors to discuss their work and the publishing world? This course combines creative writing workshops with literary analysis and the chance to hob-nob with prestigious authors during the Villanova Literary Festival.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ENG 4703: 21st C. American Apocalypse

This course surveys major contemporary novels depicting American disasters and their aftermath. We'll consider the varieties of apocalypse that are imagined -- including economic collapse, pandemic, "zombie apocalypse"

Credits 3.0

Last Offered

Spring 2025, Spring 2023, Spring 2021

ENG 4704: Borders in Latinx Literature

How do borders impact our lives, and how might they be imagined differently? This course examines how "the border" shapes Latinx literatures

Credits 3.0

Last Offered

Fall 2023

ENG 4705: Lit of Addiction and Recovery

This community-based course for Villanova students and incarcerated men will use literature to explore the causes and experience of addiction in addition to the routes taken toward recovery.

Credits 3.0

Last Offered

Fall 2024

ENG 4706: Intro to Latinx Lit

We will explore the vibrant field of Latinx literature, including fiction, creative nonfiction, and poetry by Puerto Rico, Chicano (Mexican American), Dominican American, Cuban American, and Central and South American descent writers and artists. Knowledge of Spanish is not required.

Credits 3.0

Last Offered

Fall 2025

ENG 5000: Senior Seminar

Capstone experience combining immersion in primary and secondary materials with an intensive writing experience. Limit of 15 students.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Entrepreneurship

ENTR 1000: The Basics of Entrepreneurship

This course introduces students to the concept of "entrepreneurship" and gives them an academic framework to understand and analyze the theory and practices of entrepreneurial endeavors. This course draws from many different disciplines and includes topics such as the motivation for entrepreneurship (individual

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Summer 2023

ENTR 3400: Entrepreneurship Practicum

The European Innovation Academy (EIA) Entrepreneurship & Innovation Summer School is the world's largest entrepreneurial summer program, with a special focus on digital innovations. The accelerated program turns an idea into a startup in just 15 days! The goal of this course is to give students a hands-on, real-life experience creating a startup with students from around the world. The course challenges participants to innovate, overcome obstacles, and grow rapidly; with the goal of creating a business valued at 100M EUR or more. The course is led by the top tech speakers, mentors, and investors from around the world who leverage the skills, mindset, and knowledge necessary to coach and inspire participants to achieve set goals. The course is taught in a real-life context, where students form teams of five and acquire the skills and know-how to develop their business idea from the conceptual stage to the marketplace. They are guided in building a scalable business model via real-life experiments and tests in a live marketplace with genuine customer feedback and building up real life customer traction. The challenge unfolds in a learning environment that corresponds to current and future workplace requirements including cross-functional and virtual teams with crowdsourced work tasks, a multicultural workforce, and extremely demanding organization, planning and

communication skills. CPS Only, Permission of Director Required.

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

ENTR 5000: Entrepreneurship Capstone

This capstone course is the culminating experience for the Entrepreneurship major where students will have the opportunity to integrate and apply the concepts and skills learned throughout the major. Students will work on projects to build innovative businesses, social enterprises, or non-profit ventures starting with ideation, validation, testing, building, pitching, through launch. This course will feature guest lectures from successful entrepreneurs and Villanova alumni.

Credits 3.0

Prerequisites

ENTR 1000

Prerequisite Courses

ENTR 1000

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

Entrepreneurship Ethics

ENT 2020: Intro to Entrepreneurship

Process of starting new business including business models and plans, legal and HR issues, product design, supplier relationships, business growth.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 or VSB 2030 and VSB 2040) or (ECO 1001 or SBI 2005) and ECO 1002 and ACC 1101 and FIN 1113 and MGT 1102 and MKT 1137)

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
ECO 1001
SBI 2005
ECO 1002
ACC 1101
FIN 1113
MGT 1102
MKT 1137

Corequisites

Last Offered

Spring 2025, Fall 2019, Fall 2018, Fall 2017

ETH 2050: The Good Life:Eth & Cont Prob

Major Western ethical traditions as they apply to selected contemporary ethical problems, with special consideration to Jewish and Christian perspectives.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

ETH 3010: Topics in Ethics

Addresses a special topic in ethics of current interest to faculty & students.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ETH 3210: The Ethics of Disability

Explores the nature and definition of disability, impact of disability on well-being, technological advances and disability, embodiment, and intersectional justice.

Credits 3.0

Last Offered

Summer 2025, Spring 2024, Spring 2023

ETH 3650: Ethics in the Anthropocene

Theological and philosophical analysis of the Anthropocene, impact on human/non-human life, impact on self-understanding of human beings, relationship to nature, climate change, new forms of responsibility, new forms of justice.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Fall 2023, Spring 2023, Spring 2005

ETH 4000: Integrating Seminar

A capstone course which integrates academic work and service pursued for concentration, topics determined by professor and research projects of students.

Credits 3.0

Last Offered

Spring 2022, Spring 2021, Spring 2020, Spring 2019

ETH 4975: Independent Study in Ethics

Topic in Ethics chosen by the student and approved by the professor and the Director of the Ethics Program.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

Finance

FIN 2114: Intermediate Corp Finance

Risk and return relationships; valuation models; cost of capital; capital structure; capital budgeting; dividend policy; international financial transactions; financial statement analysis and forecasting; working capital management. Emphasis on computer applications and case studies.

Credits 3.0

Prerequisites

(VSB 2020 :Y and VSB 2009 or VSB 2010 or VSB 2030 and VSB 2040) or FIN 1113

Prerequisite Courses

VSB 2020

VSB 2009

VSB 2010

VSB 2030

VSB 2040

FIN 1113

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2121: Special Topics in Finance

Special finance topics offered in lecture/seminar format. Permission of Department Chair or Instructor.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2227: Fixed Inc Markets & Valuation

Overview of fixed income markets and securities traded within those markets; bond valuation; duration and convexity of fixed income securities; asset backed security markets and valuation; credit risk analysis interest rate determination and models; interest rate risk management.

Credits 3.0

Prerequisites

(VSB 2020 :Y and VSB 2009 or VSB 2010 or VSB 2030 and VSB 2040) or FIN 1113

Prerequisite Courses

VSB 2020

VSB 2009

VSB 2010

VSB 2030

VSB 2040

FIN 1113

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2230: Risk Mgmt of Fin Institutions

The structure, operation, management, and regulation of commercial banks, savings and loan associations, mutual savings banks, credit unions, insurance companies, finance companies, pension funds, investment companies, and international financial institutions; structure and operation of the Federal Reserve system; measurement and management of the risks of financial institutions.

Credits 3.0

Prerequisites

(FIN 2227 :D- and FIN 2323 and FIN 2114 and VSB 2009)

Prerequisite Courses

FIN 2227

FIN 2323

FIN 2114

VSB 2009

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2323: Equity Markets and Valuation

Risk and return; market efficiency; structure of equity markets; equity trading strategies; financial statement analysis and ratio analysis; financial forecasting; valuation of common stocks using fundamental, relative, and technical analysis; convertible securities, warrants, equity options, and risk management applications.

Credits 3.0

Prerequisites

(VSB 2020 :Y and VSB 2009 or VSB 2010 or VSB 2030 and VSB 2040) or FIN 1113

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
FIN 1113

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2324: Portfolio Management

Advanced investment management with an emphasis on portfolio management; forecasting economic conditions; risk-return characteristics of securities; asset allocation (optimization) techniques; selecting investment goals; evaluating portfolio performance; international diversification; portfolio management with options and futures; computer applications in investment management.

Credits 3.0

Prerequisites

(FIN 2227 and FIN 2323 and FIN 2114 and VSB 2009)

Prerequisite Courses

FIN 2227
FIN 2323
FIN 2114
VSB 2009

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2325: Introduction to Derivatives

Overview of financial and non-financial derivatives including options, forwards, futures and swaps; derivatives valuation; trading strategies; application of derivatives for managing financial risks. Prerequisite senior standing.

Credits 3.0

Prerequisites

(FIN 2227 and FIN 2323 and FIN 2114 and VSB 2009)

Prerequisite Courses

FIN 2227
FIN 2323
FIN 2114
VSB 2009

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2326: Mkt.Struct., Trading&Liquidity

Liquidity, market structure, and trading in financial markets; alternative market structures and their economic and operational underpinnings; tactical trading decisions within different market structures using simulation software and real-time data services.

Credits 3.0

Prerequisites

(FIN 2227 and FIN 2323 and FIN 2114 and VSB 2009)

Prerequisite Courses

FIN 2227
FIN 2323
FIN 2114
VSB 2009

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

FIN 2327: Alternative Investments

Hedge Funds; Private Equity; Shadow Banking; Cryptocurrency, Benchmarking; Trading Strategies; Statistical Methods for Finance. Emphasis on data work and computer applications.

Credits 3.0

Prerequisites

FIN 2114 and FIN 2227 and FIN 2323 and VSB 2009

Prerequisite Courses

FIN 2114

FIN 2227

FIN 2323

VSB 2009

Last Offered

Fall 2025, Fall 2024, Spring 2024, Spring 2023

FIN 2330: Corporate Restructuring

Acquisition process and other methods of corporate restructuring. Advantages of internal and external expansion; types of combinations; requisite financial analysis; negotiation strategies; tax options; the role of government. Benefits and limitations of IPOs, leveraged buyouts, employee stock ownership plans and bankruptcy.

Credits 3.0

Prerequisites

FIN 2227 and FIN 2323 and FIN 2114 and VSB 2009

Prerequisite Courses

FIN 2227

FIN 2323

FIN 2114

VSB 2009

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2333: Financial Modeling & Valuation

Financial modeling; valuation methods; investment banking process; discounted cash flow models; comparable firms; precedent transactions; leveraged buyout model; mergers & acquisitions; restructurings. Emphasis on computer applications.

Credits 3.0

Prerequisites

(FIN 2323 and FIN 2227 and FIN 2114 and VSB 2009)

Prerequisite Courses

FIN 2323

FIN 2227

FIN 2114

VSB 2009

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2335: Intl Financial Management

Foreign exchange markets, foreign derivatives markets, external currency market and their instruments, international parity conditions, foreign exchange risk management, foreign investment analysis, political risk assessment, financing foreign trade, managing the multinational financial system.

Credits 3.0

Prerequisites

(ECO 3108 and VSB 2020 :Y and VSB 2009 or VSB 2010 or VSB 2030 and VSB 2040) or (FIN 1113 and ECO 3108)

Prerequisite Courses

ECO 3108

VSB 2020

VSB 2009

VSB 2010

VSB 2030

VSB 2040

FIN 1113

ECO 3108

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FIN 2340: Contemporary Topics in Finance

Contemporary issues and topics in Financial Management, Financial Markets, Investments, or International Finance.

Credits 3.0

Prerequisites

(FIN 2227 and FIN 2323 and FIN 2114)

Prerequisite Courses

FIN 2227

FIN 2323

FIN 2114

Last Offered

Spring 2023, Spring 2022, Spring 2021, Spring 2020

FIN 2342: Student-Managed Funds I

Management of real-dollar portfolios using various investment styles; business cycle analysis; industry analysis; investment objective screening; security analysis; portfolio analysis, compliance; portfolio reporting. Approval of Finance Department Chair and instructor required.

Credits 3.0

Prerequisites

(FIN 2227 and FIN 2323 and FIN 2114 :Y and VSB 2009)

Prerequisite Courses

FIN 2227

FIN 2323

FIN 2114

VSU 2009

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

FIN 2343: Student-Managed Funds II

Continuation of FIN 2342.

Credits 3.0

Prerequisites

FIN 2342

Prerequisite Courses

FIN 2342

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

FIN 2345: Quantitative Asset Mgmt

Quantitative Trading Strategies; Factor Models; Smart Beta; Index Strategies; Behavioral Finance; Backtesting, Statistical Methods for Finance; Data Analysis and Computer Applications.

Credits 3.0

Prerequisites

FIN 2114 and FIN 2227 and FIN 2323 and VSB 2009

Prerequisite Courses

FIN 2114

FIN 2227

FIN 2323

VSU 2009

Last Offered

Spring 2025, Spring 2024

FIN 2350: Real Estate Capital Markets

Public real estate debt and equity markets. Mortgage Backed Securities, Commercial Mortgage Backed securities, Collateralized Mortgage Obligations, Prepayment Modeling, Real Estate Equity Valuation.

Credits 3.0

Prerequisites

(FIN 2227 and FIN 2323 and FIN 2114 and VSB 2009)

Prerequisite Courses

FIN 2227

FIN 2323

FIN 2114

VSU 2009

Last Offered

Spring 2025, Fall 2024, Fall 2023, Fall 2022

FIN 2360: Applied Financial Statistics

Applied Financial Statistics; Risk and Return; Probability Distributions; Difference Models; Stationarity; ARDL Models; ARCH/GARCH; Panel Data; Fixed Effects; Difference in Difference; Regression Discontinuity; Computer Applications. Class does not count as Finance elective.

Credits 3.0

Prerequisites

ECO 3137

Prerequisite Courses

ECO 3137

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

FIN 3350: Finance Internship

Employment with an approved firm in the area of Finance where experience is gained with appropriate training, instruction, and supervision. Course does not fulfill the requirements for major.

Prerequisites: junior or senior standing, a minimum GPA of 2.5, approval of department chair.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

FIN 3360: Independent Study - Finance

Independent study under a faculty member's guidance in an area of special interest to the student. The area of interest must be discussed with the faculty member prior to registration. Course does not fulfill the requirements for major. Prerequisites: Finance major with senior standing, and written permission of chairperson required.

Credits 3.0

Prerequisites

(FIN 2227 and FIN 2323) and
(FIN 2114 :Y)

Prerequisite Courses

FIN 2227

FIN 2323

FIN 2114

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

FIN 3470: Finance Co-Op

Full-time employment with an approved firm in the area of Finance where experience is gained through appropriate training, instruction, and supervision. Course does not fulfill the requirements of the major. Prerequisite: Finance major with junior status; minimum gpa requirements will vary; approval of department chair.

Credits 6.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

RES 2150: Real Estate Fundamentals

An introduction to the field of real estate, includes the following broad topical areas: the legal nature of real estate, valuation and appraisal, real estate finance, and the secondary mortgage market.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

RES 2250: Real Estate Law

Topics in real estate law: ownership, possession and management of land and buildings, landlord and tenant, nonpossessory rights, contractual documents and agreements, transfer of rights; title insurance, moral and ethical dimensions, financing the transaction, litigation and claims involving real estate.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

RES 2340: Contemp Topics in Real Estate

Contemporary topics in Real Estate: Contemporary issues and topics in Commercial real estate including valuation, sustainability and topics of interest in the current environment. Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Real Estate

Credits 3.0

Prerequisites

RES 3150

Prerequisite Courses

RES 3150

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Fall 2022

RES 3001: Real Estate Internship

Employment with an approved firm in the area of Commercial Real Estate where experience is gained with appropriate training, instruction, and supervision. Course does not fulfill the requirements for major. A minimum GPA of 2.5, approval of the office of Business Relations and written permission of the chairperson.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

RES 3150: Real Estate Investments

Valuation of commercial real estate properties including discounted cash flow approach. Pro forma accounting statement modeling, cash flow forecasting, lease price determinants, initial and exit cap rate determination and ultimately valuing actual real estate properties. The "four food groups" of commercial real estate."

Credits 3.0

Prerequisites

RES 2150

Prerequisite Courses

RES 2150

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

RES 3250: Advanced Real Estate Modeling

Apply advanced modeling techniques to underwrite and value commercial real estate assets, Argus certification, excel based modeling. Monte Carlo simulation, Google sketch-up, partnership waterfall modeling.

Credits 3.0

Prerequisites

RES 3150

Prerequisite Courses

RES 3150

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

RES 3360: Independent Study-Real Estate

Independent study under a faculty member's guidance in an area of special interest to the student. The area of interest must be discussed with the faculty member prior to registration. Course does not fulfill the requirements for major. Prerequisites: Real Estate major with senior standing, and written permission of chairperson required.

Credits 3.0

Prerequisites

RES 2150 and RES 3150

Prerequisite Courses

RES 2150

RES 3150

RES 4150: Real Estate Development

Senior capstone class that focuses on the development process from land acquisition to final product incorporating real time real estate development projects. Specific topics include land acquisition, tax issues, optimal land use decisions, architectural and sight design, contracting and construction, leasing and marketing of properties and optimal exit strategies.

Credits 3.0

Prerequisites

RES 3150

Prerequisite Courses

RES 3150

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VSF 2009: Principles of Finance

The theory and techniques of financial management. Financial markets; financial statements and analysis; time value of money; interest rates; bond valuation; risk and return; equity valuation; cost of capital; capital budgeting; working capital management. Restricted to VSB students and Business Minors.

Credits 3.0

Prerequisites

VSF 1000 and (ECO 1001 or SBI 2005) and ECO 1002 and VSB 2004 and (MAT 1235 :Y or MAT 1430 :Y or STAT 1235 :Y or STAT 1430 :Y)

Prerequisite Courses

VSF 1000
ECO 1001
SBI 2005
ECO 1002
VSF 2004
MAT 1235
MAT 1430
STAT 1235
STAT 1430

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

VSF 2500: Personal Finance

Critical personal finance skills for financial stability and success. Topics include: planning personal finances, money management and budgeting, tax strategies, investments, credit and debt, purchase decisions, insurance, retirements and estate planning. This course will NOT be used to fulfill a Finance major or Finance minor elective requirement.

Credits 3.0

Last Offered

Spring 2025, Spring 2022,
Spring 2021, Fall 2020

French and Francophone Studies

FFS 111: Introductory French I

Groundwork in French, including oral proficiency, aural comprehension and reading; for students with no prior knowledge of French. Supplementary language laboratory work and oral drills.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Summer 2023

FFS 112: Introductory French II

Groundwork in French, including oral proficiency, aural comprehension and reading; for students with one year of high school French. Supplementary language laboratory work and oral drills. Students should have completed FFS 1111 or equivalent.

Credits 4.0

Last Offered

Spring 2025, Spring 2024, Fall 2023, Summer 2023

FFS 119: Foundations in French I

A beginner's journey into the French language emphasizing reading and writing. This course cultivates basic communication abilities, setting the stage for ongoing French education.

Credits 3.0

FFS 120: Foundations in French II

Progressing from Foundations in French I, this this course enhances linguistic expertise in reading and writing. Students amplify conversational capacities, delve into complex grammar, and uncover regional distinctions. Aimed to fortify foundational skills, propelling students toward intermediate coursework.

Credits 3.0

Prerequisites

FFS 1119

Prerequisite Courses

FFS 1119

FFS 1121: Intermediate French I

Review of grammar, composition, reading and conversation. Students should have completed FFS 1112 or equivalent.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

FFS 1122: Intermediate French II

Review of grammar, composition, reading and conversation. Students should have completed FFS 1121 or equivalent.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

FFS 1130: Intensive French Language

Regular practice in conversation and composition with review of grammar and continuing work on language skills in French. Offered in Lille through the Villanova-in-Lille program and Intensive Language and Culture Summer Program in Lille and Paris.

Credits 3.0

Last Offered

Summer 2025, Summer 2023, Summer 2022, Summer 2017

FFS 1131: Conversation and Composition I

Regular practice in conversation and composition with review of grammar and continuing work on language skills in French. Students should have completed FFS 1122 or the equivalent.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FFS 1132: Conversation & Composition II

Regular practice in conversation and composition with review of grammar and continuing work on language skills in French. Students should have completed FFS 1131 or the equivalent.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FFS 1134: Business French

An introduction to French business terminology and discourse related to economic, finance, and management.

Credits 3.0

Prerequisites

FFS 1122 or FRE 1122

Prerequisite Courses

FFS 1122

FRE 1122

FFS 1138: Advanced Grammar

Intensive practice of spoken and written French.

Credits 3.0

Prerequisites

FFS 1132 or FRE 1132

Prerequisite Courses

FFS 1132

FRE 1132

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

FFS 1139: Intercultural Comm in French

Offered in Lille through the Villanova-in-Lille program, this course aims to develop students' intercultural sensitivity and competence by helping them to reflect on their experiences as they occur.

Credits 3.0

Last Offered

Summer 2025, Fall 2024, Spring 2024, Fall 2023

FFS 1140: Writing & Stylistics in French

Intensive practice in written expression and textual analysis. Compositions are modeled on selected French texts.

Credits 3.0

Prerequisites

FFS 1132 or FRE 1132

Prerequisite Courses

FFS 1132

FRE 1132

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2020

FFS 1151: Intro to Translation of French

Introduction to the principles of translation from French to English and from English to French. Prerequisite: FFS 1132 or approval from the FFS coordinator.

Credits 3.0

Prerequisites

FFS 1132 or FRE 1132

Prerequisite Courses

FFS 1132

FRE 1132

FFS 2075: Introduction to French Cinema

Introduction to major works of French cinema from the silent era to the 2000s. Prerequisite: FFS 1132 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 1132

Prerequisite Courses

FFS 1132

Last Offered

Spring 2024, Spring 2023, Fall 2022, Spring 2022

FFS 2076: Intro To Francophone Cinema

Introduction to major films from various Francophone traditions (Maghreb, Sub-Saharan Africa, Caribbean, Quebec). Prerequisite: FFS 1132 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 1132

Prerequisite Courses

FFS 1132

FFS 2077: French and Belgian Cinemas

This course aims to explore how contemporary French and Belgian films with narratives set on the border between the two countries engage with questions of class, race, gender, and sex. Through the close analysis of key scenes, students will develop a keen awareness of the techniques that inform the film medium.

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Summer 2023

FFS 2220: Lit and Culture of France

Significant developments in the arts, society, and literature in France from the Middle Ages to the French Revolution. Prerequisite: FFS 1132 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 1132

Prerequisite Courses

FFS 1132

Last Offered

Fall 2024, Fall 2022, Fall 2020, Fall 2018

FFS 2221: Lit/Cult Francophone World

Significant developments in the literatures of the French-speaking world from the 20th century to the present.

Credits 3.0

Prerequisites

FFS 1132

Prerequisite Courses

FFS 1132

Last Offered

Fall 2025, Fall 2023, Fall 2021, Fall 2019

FFS 2285: Intro to Comics of French Expr

An overview of the voices, forms and innovations of the comics traditions of France and the French-speaking world. Works studied may include Tintin, Asterix et Obelix, Persepolis, Lapinot, Gaston Lagaffe.

Credits 3.0

Prerequisites

FFS 1132

Prerequisite Courses

FFS 1132

Last Offered

Spring 2025, Spring 2023, Spring 2021, Spring 2019

FFS 2993: Service Learning Internship

Translation of documents as part of the CRS Partnership, working on water supply, sanitation, and environmental health issues, within the historical and cultural context of the region. Prerequisites: FFS 1132 or approval from instructor.

Credits 3.0

Prerequisites

FFS 1132

Prerequisite Courses

FFS 1132

Last Offered

Spring 2024, Spring 2023,
Spring 2022, Spring 2021

FFS 3025: Reading 20th-C Francophone Lit

Regions may include North Africa, the Caribbean Islands and Canada. Pre-requisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220

FFS 2221

FFS 2075

FFS 2285

Last Offered

Fall 2018

FFS 3046: Readings 20th C French Lit

Analysis of specific trends of 20th-century French literature. Topics may include Surrealism, the New Novel, or Existentialism, among others. Prerequisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220

FFS 2221

FFS 2075

FFS 2285

FFS 3075: Themes in French Cinema

Analysis of films that deal with this topic. Prerequisites: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220

FFS 2221

FFS 2075

FFS 2285

Last Offered

Fall 2023, Spring 2019

FFS 3076: Selected Works French Cinema

Analysis of major works of French cinema. The course may be organized around a single director (Renoir, Clouzot, Truffaut, Resnais, Malle etc.) It may also explore a specific movement (poetic realism, the New Wave, or the so-called "cinéma du look").

Prerequisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from instructor."

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220

FFS 2221

FFS 2075

FFS 2285

Last Offered

Fall 2020, Summer 2017

FFS 3145: The Extreme Contemporary

Analytical readings of major texts published within the past ten years.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220

FFS 2221

FFS 2075

FFS 2285

Last Offered

Fall 2021, Fall 2019, Fall 2017

FFS 3225: Readings In Maghrebi Lit

Analytical readings of major texts of the French-speaking North-African traditions.

Prerequisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3226: Readings in Caribbean Lit

Analytical readings of major texts of the French-speaking Caribbean traditions.

Prerequisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3227: Readings Sub-Saharan Afr Lit

Analytical Readings of major texts of the French-speakiing Sub-Saharan traditions.

Prerequisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3255: Themes in Poetr of Frch Expres

An overview of the voices, forms and innovations of the poetic traditions of France and the French-speaking world through the themes of love; subjectivity and objectivity; masculinities and femininities; collective identity formation and affirmation and others.

Pre-requisites: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3285: Fr Popular Music, 1950-pres

Survey of popular music, 1950 to the present, considering literary influences and trends in music and in the industry. Pre-requisites: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3287: Cult Studies: France & Maghreb

Exploration of the rich inter-cultural connections between France and its former North-African colonies. Prerequities: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3412: Special Topics

Advanced study of topics of special interest in French literary and/or cultural studies. May be repeated for credit if topic changes. Prerequisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.
Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FFS 3625: Readings in Medieval&Renai Lit

Analytical readings from the Medieval and Renaissance periods. Works studied may include La Chanson de Roland, Tristan et Iseult, fabliaux, Montaigne, Rabelais, Ronsard, Marguerite de Navarre. Prerequisites: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3725: Readings in 17th C Literature

Analytical readings of major texts. Pre-requisites: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3765: French Classical Theatre

Classical dramaturgy and modern interpretations of Corneille, Moliere and Racine. Pre-requisites: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

FFS 3925: Paris, Capital of the 19th-C

Literary, artistic, political, and social overview of France's capital city following the French revolution. Pre-requisites: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

Last Offered

Fall 2020

FFS 3945: Readings in 19th C Prose

Analytical readings of major novels from the 19th century. Prerequisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from Instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220
FFS 2221
FFS 2075
FFS 2285

Last Offered

Fall 2018

FFS 3956: Modernism in French Poetry

Study of the birth of modernism as seen through French poetry set in its historical and cultural context. Prerequisite: FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285 or authorization from instructor.

Credits 3.0

Prerequisites

FFS 2220 or FFS 2221 or FFS 2075 or FFS 2285

Prerequisite Courses

FFS 2220

FFS 2221

FFS 2075

FFS 2285

FFS 3970: Research Seminar

Principles and techniques of literary research. Overview of major French and Francophone authors and representative works. Students should have completed FFS 1132 or the equivalent.

Credits 3.0

Prerequisites

FFS 1132 or FRE 1132

Prerequisite Courses

FFS 1132

FRE 1132

FFS 3971: Directed Research in FFS

Directed semester-long research project that satisfies the College research requirement, taken in conjunction with another upper-level FFS content course. Pre-requisite: FFS 2220, FFS 2221 or FFS 2075, or approval from the FFS coordinator.

Credits 1.0

Prerequisites

FFS 2220 or FRE 2220 or FFS 2221 or FRE 2221 or FFS 2075 or FRE 2075

Prerequisite Courses

FFS 2220

FRE 2220

FFS 2221

FRE 2221

FFS 2075

FRE 2075

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

FFS 5900: Independent Study

Credits 3.0

Prerequisites

FFS 1132 :D- or FRE 1132 :D-

Prerequisite Courses

FFS 1132

FRE 1132

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

RLL 3046: Readings in FRE & Francoph Lit

Analysis of specific trends in French and Francophone literatures. Topics may include Surrealism, the New Novel, Existentialism, Negritude, Creolite, etc. Taught in English.

Credits 3.0

RLL 3075: Theme in FRE & Francoph Cinema

Analysis of major works dealing with a chosen topic. The course may explore a specific movement (the New Wave, etc.) Taught in English.

Credits 3.0

Last Offered

Spring 2020

RLL 3287: Cult Stud: FRA & Francoph Worl

Exploration of the political, economic and sociocultural connections between France and its former colonies. Potential topics include France and the Maghreb, the African diaspora in France, etc. Taught in English.

Credits 3.0

Gender and Women's Studies

GWS 2010: Special Topics

An intensive examination of selected topics within gender and women's studies.

Credits 3.0

GWS 2050: Introduction to Gender Studies

The history and evolution of feminist analysis as a force of history, theory, art, and culture. Critical distinctions between the biology of sex and the social construction of gender. Basic principles of feminist thought, from its origins in the Women's Movement of the late 1700s and 1800s, through modern manifestations, including today's diverse narratives. Multi-disciplinary and writing enriched.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GWS 2060: Introduction to LGBTQ Studies

Introduces LGBTQ histories, cultures, and theoretical perspectives in the context of race, class, gender, sexuality, age, religion, ability and nation. Topics include literary and artistic expression, health matters, policy and politics, community life, and other issues relevant to studying LGBTQ+life.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GWS 2993: GWS Internship

Internship.

Credits 3.0

Prerequisites

GWS 2050

Prerequisite Courses

GWS 2050

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GWS 3000: Independent Study

Approval of Gender and Women's Studies Director required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GWS 5000: Integrating Seminar

An interdisciplinary course that focuses on a topic through methodology that requires Gender and Women's Studies minors to provide input from the research areas of their majors. Approval of Director of Gender and Women's Studies required.

Credits 3.0

Prerequisites

GWS 2050

Prerequisite Courses

GWS 2050

Last Offered

Spring 2025, Spring 2024, Spring 2022, Spring 2021

Geography and the Environment

GEV 0010: Freshmen Peer Mentoring

Peering-mentoring for Freshmen Environmental Science, Environmental Studies, and Geography Majors.

Credits 0.5

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 0020: Sophomore Peer Mentoring

Peer-mentoring for Sophomore Environmental Science, Environmental Studies, and Geography Majors.

Credits 0.5

GEV 1002: Geo. of a Globalizing World

The human and physical realms of Geography. Focus on current geographic problems facing specific regions of the world.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GEV 1003: Geo. of Earth's Environments

World climates, water, landforms, soil, and vegetation form the basis of this global environmental approach.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GEV 1004: Climate Change

Spatial patterns of global and regional climate systems. Natural and anthropogenic factors that cause climate change. Understanding human-climate system interaction.

Credits 3.0

Last Offered

Summer 2025, Fall 2024, Summer 2024, Spring 2024

GEV 1006: Geography, Climate, & Conflict

Examination of the complex relationships between geography, climate change, political instability, and violent conflict.

Credits 3.0

Last Offered

Fall 2025

GEV 1050: Environmental Science I

Multidisciplinary foundation in Environmental Science; first of two semester course. Science course linking environmental biology, chemistry, earth sciences, and climate change. Collection of data from lab experiments and field-based observations.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 1051: Environmental Science II

Second of two course sequence. Multidisciplinary foundation in Environmental Science: natural resources, pollution, & energy, with related field trips & laboratory sessions.

Credits 4.0

Prerequisites

ENV 1050 :D- or GEV 1050 :D-

Prerequisite Courses

GEV 1050

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

GEV 1052: Environmental Studies

Multidisciplinary foundation in Environmental Science; first of two semester course. Science course linking environmental biology, chemistry, earth sciences, and climate change.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 1053: Environmental Studies II

Overview of fundamental environmental topics, including themes in energy, pollution, and resources.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

GEV 1750: Geo-Techniques

Principles and applications of geographic technologies and field techniques with emphasis on: field surveys, cartography, global positioning systems, aerial photography, satellite imagery & remote sensing, computer-aided cartography, digital elevation models & geographic information systems.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 1903: Internship Elective

Credits 3.0

Last Offered

Summer 2021, Summer 2020,
Spring 2020, Fall 2019

GEV 1906: Internship Elective

Credits 6.0

Last Offered

Summer 2021, Summer 2020,
Spring 2020, Fall 2019

GEV 2001: Prof Dev in Geo and Env

Professional development in
the fields of geography,
environmental studies, and
environmental science.

Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

GEV 2310: Environmental Chemistry

Interdisciplinary approach to
chemical and biochemical
phenomena. Sources, reactions,
transport, effects, and fates of
chemical species in the air, soil,
and water environments, and
their effect on human activity.

Credits 4.0

Prerequisites

GEV 1050 and (CHM 1151 or
CHM 1131) and CHM 1103

Prerequisite Courses

GEV 1050
CHM 1151
CHM 1131
CHM 1103

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

GEV 2400: Environmental Physics

Physics in the environment
with focus on the atmosphere,
soil, water, and watersheds.

Credits 4.0

Prerequisites

GEV 1050

Prerequisite Courses

GEV 1050

GEV 2500: Global Change in Local Places

Geographic research methods
to address spatial implications
of current local issues.

Relationships between global
environmental & societal
processes & local landscapes.
Collection, evaluation, analysis
& presentation of qualitative &
quantitative geographic data.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Fall 2023

GEV 2525: Population Geography

Geographic dimensions of
global population trends,
emphasizing global
demographic divides.

Considers population
processes (mortality, fertility,
migration), population
structures (age, gender,
ethnicity), and population
policy. Special topics may
include population and the
environment, food supply, and
HIV-AIDS.

Credits 3.0

Last Offered

Fall 2024, Fall 2021, Fall 2019,
Fall 2018

GEV 2893: Independent Study

Independent study under the
direction of faculty member of
selected topics in geography,
environmental studies, and
environmental science.

Instructor Permission Required

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Fall
2023, Spring 2023

GEV 2993: Internship

Internship for credit.

Credits 3.0

Last Offered

Summer 2025, Spring 2025,
Summer 2024, Spring 2024

GEV 2996: Internship

Internship for credit.

Credits 6.0

Last Offered

Summer 2025, Spring 2025,
Summer 2024, Spring 2024

GEV 3000: Special Topics

Contemporary topics in Geography and Environmental Science. Topics will be announced on a semester-by-semester basis. Specific information will be available on the department's web page.

Credits 3.0

Last Offered

Fall 2023, Fall 2021, Spring 2021, Fall 2020

GEV 3001: Intro to Sustainability Study

Development that meets the needs of the present without compromising the needs of future generations. Social, engineering, and economic dimensions, which make up the sustainability model.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GEV 3004: Geographies Envrnl Justice

Patterns of environmental inequality that affect health and quality of life. Relationship between environmental harms and benefits and different groups in society. Case studies explore fundamental aspects of environmental justice.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

GEV 3300: Stats. in Environmental Sci.

Statistical methods and application. An introduction to statistical concepts, techniques, and applications to data analysis and to problems in the design, analysis, and interpretation of experiments in the environmental sciences.

Credits 3.0

Last Offered

Fall 2022, Spring 2021, Fall 2019, Fall 2016

GEV 3306: Alternative Energy

Analysis of emerging and established alternative energies, incl. wind, solar, biofuel, and hydropower.

Credits 3.0

GEV 3308: Environmental Health

Health issues, scientific understanding of causes, and possible future approaches to control of the major environmental health problems in industrialized and developing countries.

Credits 3.0

Last Offered

Fall 2025, Spring 2024, Fall 2022, Spring 2020

GEV 3395: Int'l. Studies in Env. Sci.

Lecture course taken through the International Studies Program.

Credits 3.0

GEV 3500: Geography of North America

Physical and human geography of North America from a regional perspective. Key geographic concepts of site, situation, and the interaction between society and the environment for each region.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Fall 2022, Fall 2020

GEV 3521: GIS for Urban Sustainability

Review and analyze sustainability issues faced by cities. Learn GIS applications related to urban sustainability
Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2022, Fall 2020

GEV 3522: Geography of the Middle East

Survey of the geography of the Middle East including its physical geography, environmental issues, urban-economic, its development, cultural geography, historical evolution, and the spatial patterns of its human landscapes. Special emphasis on strategic importance in globalizing world.
Credits 3.0

Last Offered

Spring 2025, Spring 2023, Spring 2022, Spring 2021

GEV 3550: Natural Hazards

Processes determining physical risk, societal vulnerability, and response to major hazards including: blizzards, tornadoes, hurricanes, drought, flooding, earthquakes, volcanoes, landslides, avalanches, and wildfires.
Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 3570: Land Use Planning & Mgmt

Land use planning and management with focus on land-law interfaces between the physical, cultural and legal realms. Survey of natural and political systems as the basis for land use controls at the federal and regional levels.
Credits 3.0

Last Offered

Spring 2023, Spring 2020, Spring 2018, Spring 2015

GEV 3580: Natural Res and Conservation

Assessment of natural resource and conservation issues in the U.S. and around the world. Distribution and use patterns of air, water, mineral, energy, and biologic resources. Examination of exploitation, conservation, and preservation management strategies.
Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 3590: Topical Research Problems

Individual projects or studies in geography and the environment.
Credits 3.0

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

GEV 3595: Int'l. Studies in Geography

Lecture course taken through the International Studies Program.
Credits 3.0

GEV 3596: Int'l Studies in Regional Geog

Lecture course in regional geography taken through the International Studies Program.
Credits 3.0

GEV 3597: Int'l Studies in Geospatial Te

Lecture course in geospatial technology taken through the International Studies Program.
Credits 3.0

GEV 3750: Remote Sensing

Data collection and analysis with high-technology platforms such as conventional and color infrared photography, multi-spectral scanners, satellite imagery, thermal infrared, LIDAR, and radar. Application of remotely sensed data to solve complex, human, environmental, and engineering problems.
Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 3760: Geospatial Appl in Env Sci

Application of geospatial techniques to solve a variety of environmentally related issues such as: watershed contamination, coastal erosion, natural hazard impacts, deforestation, urban sprawl, and climate change.

Credits 3.0

Prerequisites

GEV 4700

Prerequisite Courses

GEV 4700

Last Offered

Fall 2024, Spring 2024, Spring 2023

GEV 4001: Advanced Sustainability Study

Second in a two-course sequence. An in-depth exploration of the social, engineering, and economic dimensions of sustainability through field trips, guest lectures, and service learning.

Credits 4.0

Prerequisites

GEV 3001

Prerequisite Courses

GEV 3001

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

GEV 4300: Selected Topics

Selected topics of interest in environmental science and geography. Offered on three or four Saturday mornings or on weekday evenings. Topics will be announced on a semester-by-semester basis.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Fall 2022

GEV 4301: Topics in Env and Geo Sci

Selected topics of interest in the environmental and geospatial sciences. Offered on three or four Saturday mornings or on weekday evenings. Topics will be announced on a semester by semester basis.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GEV 4302: Topics in Env Pol & Mgmt

Selected topics of interest in environmental policy and management. Offered on three or four Saturday mornings or on weekday evenings. Topics will be announced on a semester-by-semester basis.

Credits 1.0

Last Offered

Spring 2024, Fall 2023, Spring 2023

GEV 4310: Environmental Issues Seminar

Interdisciplinary coverage of current global environmental issues, emphasizing their complexity, analyses, and solutions.

Credits 3.0

Prerequisites

GEV 1050 and GEV 1051

Prerequisite Courses

GEV 1050

GEV 1051

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

GEV 4320: Spec. Topics in Env Lab Sci

Advanced laboratory science topics in the Environment presented by senior faculty. Specific subject matter will vary with the expertise of the professor.

Credits 4.0

Last Offered

Fall 2025, Spring 2024, Fall 2023, Spring 2023

GEV 4322: Ocean Environments

Investigation of the biological, geological, chemical, and physical characteristics of the ocean.

Credits 4.0

Prerequisites

GEV 1050 and GEV 1051

Prerequisite Courses

GEV 1050

GEV 1051

Last Offered

Fall 2025, Fall 2024, Fall 2017

GEV 4323: Watershed Biogeochemistry

Biogeochemical and physical characteristics of watersheds and the threats they currently face.

Credits 4.0

Prerequisites

GEV 1050 and GEV 1051

Prerequisite Courses

GEV 1050

GEV 1051

Last Offered

Spring 2025, Spring 2024, Fall 2021, Spring 2019

GEV 4329: Global Change Research

Advanced field and laboratory research focused on contemporary issues in environmental science.

Credits 4.0

Prerequisites

GEV 1050 and GEV 1051

Prerequisite Courses

GEV 1050

GEV 1051

Last Offered

Spring 2022

GEV 4330: Spec Topics in Environm Policy

Advanced topics in environmental policy and management presented by senior and visiting faculty. Specific subject matter will vary with the expertise of the visiting professor or senior faculty member conducting the course. Course may be taken under multiple titles.

Credits 3.0

Last Offered

Fall 2024, Fall 2020, Fall 2019, Fall 2014

GEV 4331: Env. Policy & Management

National and international debates of key environmental issues from policy and management perspectives.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 4334: Environmental Law

Legal analysis of the environment, incl. seminal national and international laws.

Credits 3.0

Last Offered

Spring 2023, Spring 2022

GEV 4336: Environmental Economics

Application of economic principles to study environmental issues, such as evaluating the monetary value of ecosystems, the effectiveness of environmental policies, and comparing costs and benefits of different policy options. Contemporary environmental economic topics are explored.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Fall 2021

GEV 4340: Spec Topics in Environm Issues

Advanced topics in environmental social science and humanities presented by senior and visiting faculty. Specific subject matter will vary with the expertise of the visiting professor or senior faculty member conducting the course.

Credits 3.0

Last Offered

Spring 2017, Spring 2014

GEV 4341: Repairing Nature

Methods for restoring nature that go beyond conservation and sustainability, including scientific, economic, and Indigenous rationales for environmental restoration. Exploration of the forms that human-nature collaborative regeneration can take.

Credits 3.0

GEV 4350: Spec Topics in Environm Sci

Advanced topics in environmental science presented by senior and visiting faculty. Specific subject matter will vary with the expertise of the visiting professor or senior faculty member conducting the course. Course may be taken under multiple titles.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

GEV 4351: Oceanography

Biology, geology, chemistry, and physical environment of the ocean.

Credits 3.0

Last Offered

Fall 2023, Summer 2020, Fall 2019

GEV 4357: Applied Environmental Sci

Practice of environmental science in modern economy; applications of environmental science.

Credits 3.0

Prerequisites

GEV 1050

Prerequisite Courses

GEV 1050

Last Offered

Spring 2025

GEV 4358: Environmental Project Mgmt

Communication, planning and budgeting environmental projects; stakeholder interaction, technical writing, planning tools.

Credits 3.0

Prerequisites

GEV 1050

Prerequisite Courses

GEV 1050

Last Offered

Fall 2025, Spring 2024

GEV 4359: Applied Environmental Science

Practice of environmental science in modern economy; applications of environmental science.

Credits 3.0

Prerequisites

GEV 1050

Prerequisite Courses

GEV 1050

GEV 4362: Coastal Geohazards

Physical processes of coastal hazards, long term record of coastal geological processes.

Credits 4.0

Prerequisites

GEV 1050

Prerequisite Courses

GEV 1050

GEV 4363: GIS for Conservation Mngmnt

Advanced GIS course with model building, raster analysis, and other spatial analysis techniques focused on conservation.

Credits 4.0

Prerequisites

GEV 4700

Prerequisite Courses

GEV 4700

Last Offered

Fall 2024

GEV 4364: Urban Ecology

Principles of ecology applied to urban settings. Understanding cities as socio-ecological systems with dynamic relationships between social, natural, and built systems.

Credits 4.0

Prerequisites

GEV 1050

Prerequisite Courses

GEV 1050

Last Offered

Spring 2025

GEV 4511: Climate Variability

Seasonal, interannual, and decadal variations in climate variables. Atmospheric circulation patterns, teleconnections, and their impacts on the environment and society.

Credits 3.0

Prerequisites

GEV 1003

Prerequisite Courses

GEV 1003

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

GEV 4512: Medical Geography

Spatial patterns and epidemiology of disease. Characteristics of epidemics and pandemics from a geographic perspective. Case studies, spatial/statistical analyses, and transmission processes.

Credits 3.0

Last Offered

Spring 2025, Fall 2023, Fall 2021, Fall 2019

GEV 4514: Geomorphology

Processes that shape the natural landscape. Descriptive and quantitative techniques to examine balance between tectonic activity and subsequent modification of landforms by weathering, erosion and deposition.

Credits 3.0

Last Offered

Spring 2025, Spring 2021,
Spring 2019

GEV 4516: Environmental Security

Broad range of security issues triggered by demographic and environmental factors such as competition for resources, population growth/displacement, disease, natural disasters, environmental change, and non-sustainable practices.

Credits 3.0

Last Offered

Spring 2022

GEV 4518: COVID-19 Pandemic

Overview of the COVID-19 pandemic including issues around global health, disease diffusion, health disparities, vulnerable populations, social determinants of disease, and economic and political implications.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Spring 2023

GEV 4700: Geographic Information Systems

Principles, techniques, and applications of Geographic Information Systems (GIS). Laboratory employs analyses with state-of-the-art GIS software.

Credits 4.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

GEV 6005: Senior Research Seminar

Scheduled group meetings with other research students in the department, focusing on general and specific aspects of the senior research project/thesis. Requires permission of instructor.

Credits 1.0

Corequisites

GEV 6200

Corequisite Courses

GEV 6200

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

GEV 6006: Research Colloquium

Presentations by speakers including faculty, students, and guests from the academic, public, and private sectors. Lectures feature new creative and scholarly work that encompasses the disciplines and areas of interest of the department.

Credits 0.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

GEV 6007: Research Colloquium II

Presentations by speakers including faculty, students, and guests from the academic, public, and private sectors. Lectures feature new creative and scholarly work that encompasses the disciplines and areas of interest of the department.

Credits 0.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Summer 2024

GEV 6200: Independent Study

Individual projects or studies in geography & the environment.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

GEV 6210: Senior Thesis Research I

Research with faculty member selected by student. Part 1 of two-semester sequence. Continues as Thesis Research II, which culminates in a written thesis. Requires permission of the faculty mentor.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

GEV 6220: Senior Thesis Research II

Second phase of senior thesis sequence. Research with faculty mentor selected by student. Culminates in a written senior thesis. Requires permission of the faculty mentor.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MSE 2500: GEV: Env. Sustainability

Challenges and complexities involved in achieving a sustainable society. Interdisciplinary approach to investigating impacts of a growing human population on energy requirements, waste management, and natural resource use.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MSE 2501: GEV: Our Warming Planet

Climate change, past and future climate, impacts of climate change on the natural world and human society, and adaptation strategies. Laboratory work focused on applying the scientific method to understanding causes and consequences of climate change.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Spring 2022, Spring 2021

MSE 2504: GEV: Beaches and Coasts

Half of the world's population lives within the coastal zone. Yet, our use of this environment is occurring in tandem with environmental change. Laboratories will emphasize field techniques and include visits to local coastal sites, requiring four weekend field trips.

Credits 4.0

Last Offered

Spring 2024, Fall 2015

MSE 2507: GEV:Environmental Pollution

Scientific principles, concepts, measurements, and case studies with a focus on the science of environmental pollution (air, water, and land). Global climate change, environmental sustainability, environmental justice, and environmental policies.

Credits 4.0

Last Offered

Fall 2021, Fall 2018

MSE 2510: GEV: Climate, Env, & Society

Science of meteorology, climatology, and how variations in climate affect periodic ecological cycles. Focus on connections between them and overall trends in environmental change.

Credits 3.0

Last Offered

Spring 2025

MSE 2511: GEV: Clim, Env, & Society Lab

Climate, Environment, and Society Laboratory. Laboratory work focused on applying the scientific method to climate and environmental variations.

Credits 1.0

Last Offered

Spring 2025

MSE 2512: GEV: Env Sustainability

Challenges and complexities involved in achieving a sustainable society. Interdisciplinary approach to investigating impacts of a growing human population on energy requirements, waste management, and natural resource use.

Credits 3.0

Last Offered

Fall 2025

MSE 2513: GEV: Env Sustainability Lab

Lab for MSE Environmental Sustainability. Challenges and complexities involved in achieving a sustainable society. Interdisciplinary approach to investigating impacts of a growing human population on energy requirements, waste management, and natural resource use.

Credits 1.0

Corequisites

MSE 2512

Corequisite Courses

MSE 2512

Last Offered

Fall 2025

Global Interdisciplinary Studies

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

All students must choose one specialization from the sections listed below.

The Department of Global Interdisciplinary Studies also offers minors in the following programs: Arabic Language

and Cultural Studies, Chinese Language and Cultural Studies, Japanese Language and Cultural Studies, Russian Language and Cultural Studies. Visit these individual pages to view requirements.

AFR 3000: Constructs of Blackness

Interdisciplinary examination of ideas of black identity, culture, and politics. Course covers African and African Diaspora experience in society, history, literature, health, and others in global and national contexts.

Team taught

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

AFR 5000: Ind. Study Africana Studies

Permission of Program Director. Individual students with specific interest work on a tutorial basis with an appropriate professor.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ARB 111: Basic Arabic I

Basic Modern Standard Arabic for students with no prior knowledge of Arabic, and for heritage speakers without writing proficiency. Recitations, readings and oral drills, supplementary language laboratory work. Part I of II.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ARB 112: Basic Arabic II

Basic Modern Standard Arabic for students with no prior knowledge of Arabic, and for heritage speakers without writing proficiency. Recitations, readings, oral drills, supplementary language laboratory work. Part II of II. Prerequisites: ARB 1111 or equivalent.

Credits 4.0

Prerequisites

ARB 1111

Prerequisite Courses

ARB 1111

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ARB 1121: Intermediate Arabic I

Review of grammar and vocabulary. Recitations, readings, and oral drills. Supplementary language laboratory work and oral drills. ARB 1111 and ARB 1112, or equivalent or permission of Program Director.
Credits 4.0

Prerequisites

ARB 1111 and ARB 1112

Prerequisite Courses

ARB 1111

ARB 1112

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2021

ARB 1122: Intermediate Arabic II

Continuation from ARB 1121. Review of grammar and vocabulary. Recitations, readings, and oral drills. Supplementary language laboratory work and oral drills. ARB 1111, ARB 1112, and ARB 1121, or equivalent or permission of Program Coordinator.
Credits 4.0

Prerequisites

ARB 1111 and ARB 1112 and ARB 1121

Prerequisite Courses

ARB 1111

ARB 1112

ARB 1121

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ARB 1131: Intensive Adv Arabic I

Advanced communication skills including reading and discussing topics on current events. Supplementary language laboratory work. ARB 1125 or equivalent or permission of instructor.
Credits 3.0

Last Offered

Spring 2025, Fall 2024, Fall 2020, Fall 2019

ARB 1132: Intensive Adv Arabic II

Advanced communication skills including reading and discussing topics on current events. Supplementary language laboratory work. ARB 1131 or equivalent or permission of instructor.
Credits 3.0

Last Offered

Spring 2021, Spring 2018, Spring 2017, Spring 2016

ARB 1141: Intro to Colloquial Arabic

Training in the use of colloquial Egyptian Arabic, focusing on listening and speaking skills. Supplementary laboratory work and drills.
Credits 3.0

Last Offered

Fall 2020, Fall 2019, Spring 2019, Spring 2009

ARB 1600: Arabic Short Topics

Topics on Arab culture and language explored at basic levels and for a short length of time in the semester.
Credits 1.0

ARB 2142: Arab Culture Thru Film & Text

Arab culture and civilization with emphasis on the Arab people's contribution to the arts and sciences.
Credits 3.0

Last Offered

Spring 2022, Spring 2019, Fall 2018, Fall 2017

ARB 3412: Special Topics

Advanced study of topics of special interest in Arabic literary and/or cultural studies. May be repeated for credit if topic changes. Fulfills core requirements for Arabic minor.
Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring 2023, Fall 2021

ARB 5900: ARB:Independent Study

Supervised study, activity or research. May be taken more than once. Prior approval of chair and instructor.
Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHI 1009: Foundations in Chinese I

A beginner's journey into the Chinese language emphasizing reading and writing. This course cultivates basic communication abilities, setting the stage for ongoing Chinese education.

Credits 4.0

CHI 1010: Foundations in Chinese II

Progressing from Foundations in Chinese I, this course enhances linguistic expertise in reading and writing. Students amplify conversational capacities and delve into complex grammar. Aimed to fortify foundational skills, propelling students toward intermediate coursework.

Credits 4.0

CHI 1111: Basic Chinese I

Functional use of Chinese for students with no prior knowledge of Chinese. New pronunciation system, PINYIN, readings and oral drills. Supplementary language laboratory work.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHI 1112: Basic Chinese II

Functional use of Chinese for students with no prior knowledge of Chinese. Continuation of CHI 1111. New pronunciation system, PINYIN, readings and oral drills. Supplementary language readings, oral drill, and laboratory work.

Credits 4.0

Prerequisites

CHI 1111 :D

Prerequisite Courses

CHI 1111

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHI 1121: Intermediate Chinese I

Review of Grammar and vocabulary. New pronunciation system, PINYIN, reading and oral drills. Supplementary language laboratory work. PreReqs: CHI 1111 and CHI 1112 or equivalent, with permission of Language Coordinator.

Credits 4.0

Prerequisites

CHI 1111 and CHI 1112

Prerequisite Courses

CHI 1111

CHI 1112

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHI 1122: Intermediate Chinese II

Review of grammar and vocabulary. New pronunciation system, PINYIN, readings and oral drills. Supplementary language laboratory work. CHI 1121 or equivalent or permission of instructor.

Credits 4.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHI 1131: Advanced Chinese I

Advanced communication skills including reading and discussing topics on current events. Supplementary language laboratory work. CHI 1122 or equivalent or permission of instructor.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CHI 1132: Advanced Chinese II

Advanced communication skills including reading and discussing topics on current events. Supplementary language laboratory work. CHI 1131 or equivalent or permission of instructor.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHI 1133: Advanced Chinese III

Advanced communication skills including reading & discussing topics on current events. Supplementary language laboratory work. CHI 1132 or equivalent or permission of instructor.

Credits 3.0

Prerequisites

CHI 1132

Prerequisite Courses

CHI 1132

Last Offered

Fall 2025, Fall 2023, Fall 2022, Fall 2021

CHI 1134: Advanced Chinese IV

Advanced communication skills including reading & discussing topics on current events. Supplementary language laboratory work. CHI 1133 or equivalent or permission of instructor.

Credits 3.0

Prerequisites

CHI 1133

Prerequisite Courses

CHI 1133

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

CHI 1151: Spec. Top. in Chinese Language

Intensive instruction in conversation, reading and writing with emphasis on the refinement of Chinese language skills.

Credits 3.0

Prerequisites

CHI 1122

Prerequisite Courses

CHI 1122

Last Offered

Fall 2024, Fall 2020, Fall 2015

CHI 1600: Chinese Short Topics

Topics on Chinese culture and language explored at basic levels and for short length of time in the semester.

Credits 1.0

Last Offered

Fall 2025

CHI 1975: Classical Chinese Literature

Introduces some major artists, genres, and texts that have shaped the classical Chinese literary tradition. Explores how concepts like ?tradition? or ?canon? are constantly destabilized, revitalized, and reimagined. Pays attention to challenges of literary interpretation.

Credits 3.0

Last Offered

Fall 2025

CHI 2102: Chinese Film

Screening and analysis of Chinese films thematically, stylistically, and historically. Elective for Chinese and Asian Studies majors and minors. May also fulfill Core Fine Arts, if so approved.

Credits 3.0

Last Offered

Spring 2025

CHI 2140: Chinese Culinary Culture

Screening and analysis of Chinese films, thematically, stylistically, and historically. Elective for Chinese and Asian Studies majors and minors.

Credits 3.0

Last Offered

Fall 2025, Fall 2024

CHI 2143: Chinese Culture

Chinese culture and civilization from the beginning to the present. Conducted in English.

Credits 3.0

Last Offered

Summer 2025, Spring 2025, Summer 2023, Summer 2022

CHI 3412: Chinese Special Topics

Advanced study of topics of special interest in Chinese literary and/or cultural studies. May be repeated for credit if topic changes. Taught in English.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CHI 3413: Chinese Calligraphy

Two part course: Textual study: History of Chinese calligraphy emphasizing how the Chinese culture blossomed and developed; Calligraphy practice: an on-hand developing of Chinese characters including the study of character's original meaning, transformation, and cultural context.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CHI 5900: CHI:Independent Study

Supervised study, activity or research. May be taken more than once. Prior approval of chair and instructor.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GIS 1000: Non-VU Language Abroad

Short-term basic study for credit of language not offered by GIS as part of a Study Abroad program.

Credits 1.0

GIS 1100: Special Studies

Studies in Critical Languages not included among the languages and cultural studies typically offered in GIS, in related areas, usually through Study Abroad, such as: Korean, Hindi, Thai, Yoruba, Hebrew, Luo; readings, discussions, drills.

Credits 3.0

GIS 2000: Intro to Global Interd Studies

Gateway course to Global Interdisciplinary Studies, preparing for area studies specializations and GIS interdisciplinary programs. Focuses critical thinking skills through the comparative lens of both global and interdisciplinary analyses. Mandatory preparatory course for advanced study in GIS major.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GIS 2993: Global Studies Internship

Permission of Chairperson required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GIS 2996: Global Studies Internship

Permission of Chairperson required.

Credits 6.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

GIS 3000: Special Topics Study Abroad

Special topics in global and interdisciplinary studies taken while studying abroad.

Credits 3.0

Last Offered

Summer 2025

GIS 3992: Global Topics Abroad

Co-requisite 1-credit course designed to provide an embedded study-abroad experience to complement a requisite GIS course.

Credits 1.0

Corequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GIS 4000: Global Env Justice Movements

Interdisciplinary seminar course will explore the epistemological, historical, environmental, and philosophical dimensions of global environmental justice movements from the 19th century to the present.

Credits 3.0

Last Offered

Fall 2025, Fall 2009, Spring 2009

GIS 4100: Topics in GIS

Specific topics in global interdisciplinary studies that vary each semester.

Credits 3.0

Last Offered

Spring 2024, Spring 2023, Spring 2018

GIS 4281: The Tale of Shanghai and Tokyo

Struggling with their identity while being nurtured by their traditional culture for more than a century, today's Shanghai and Tokyo eventually emerged from a feudal society as modern, sophisticated, and diversified metropolises on the global stage. Explore how the two Asian cities encountered the West, as well as how they were forced to change through revolutions and reforms in the realms of culture, sociology, literature, history, ideology, and philosophy of life.

Credits 3.0

Last Offered

Spring 2022, Fall 2017, Spring 2016, Fall 2014

GIS 5000: Special Topics

Intensive seminar taught by distinguished visiting faculty on a topic of global and interdisciplinary significance.

Credits 1.0

Prerequisites

GIS 2000 :Y

Prerequisite Courses

GIS 2000

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

GIS 5011: GIS Select

Interdisciplinary team-taught courses offered by GIS to fulfill requirements for the Junior Research Seminar and additional GIS Select course. May be taken by GIS majors in any of the specializations, including Gender and Women's Studies and Peace and Justice Education, to fulfill requirements in their specialization if the specific GIS Select topic carries the attribute of their specialization.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

GIS 6000: Independent Study

Individual students with specific interests will work on a supervised project.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

GIS 6500: Capstone I: Research

Team-taught, interdisciplinary seminar. Integration of work for GIS major, leading to the research & writing of the major thesis, topic determined by faculty of record. Senior standing.

Credits 3.0

Prerequisites

GIS 2000

Prerequisite Courses

GIS 2000

Corequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

GIS 6600: Capstone 2:Thesis

Directed research seminar focusing on the writing of the major theses. Senior standing.

Credits 3.0

Corequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

IS 111: Introductory Irish Language I

Groundwork in Irish (Gaelic), including oral proficiency, aural comprehension, and reading knowledge; for students with no prior knowledge of Irish. Supplementary language laboratory work and oral drills.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

IS 112: Introductory Irish Language II

Groundwork in Irish (Gaelic), including oral proficiency, aural comprehension and reading knowledge; for students with one semester of Irish study completed. Supplementary language laboratory work and oral drills. Students should have completed IS 111 or equivalent.

Credits 4.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

IS 1121: Intermediate Irish Language I

Review of grammar and vocabulary in Irish (Gaelic). Recitations, readings and oral drills. Supplementary cultural study, language laboratory, and conversation comprehension. Prerequisites: IS 1111 and 1112, equivalent or permission of instructor. Taught by a Fulbright language instructor from Ireland. Counts toward the Irish Studies Concentration.
Credits 3.0

Prerequisites

IS 1112

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

IS 3100: Topics: Irish Studies

Study of topics of special interest in Irish Studies, both on campus and abroad. May be repeated two times if topics change.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024

IS 4000: Intro Irish Studies Abroad

On the culture, history, politics of Ireland. Presentations by the Academic Program Coordinator, readings on Irish culture and society, and field trips. Required of all students participating in the summer abroad program at NUI Galway, Ireland.

Credits 1.0

Corequisites

VAB 1000

Corequisite Courses

VAB 1000

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

IS 4100: Spec Top in Irish Studies

Perspectives on the culture and history of Ireland. Presentations by the Resident Program Director, lectures by a range of NUI faculty, readings by noted Irish writers, performances by a local musicians, and field trips. Required of all students participating in the semester abroad program at NUI Galway, Ireland.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Spring 2024, Spring 2023

IS 4101: Studying in Ireland

Intercultural education preparing for study in Ireland through critical readings, reflective writing, and foundational concepts in Irish Studies.

Credits 1.0

JPN 1009: Foundations in Japanese I

A beginner's journey in the Japanese language emphasizing reading and writing. This course cultivates basic communication abilities, setting the stage for ongoing Japanese education.

Credits 4.0

JPN 1010: Foundations in Japanese II

Progressing from Foundations of Japanese I, this course enhances linguistic expertise in reading and writing. Students amplify conversational capacities and delve into complex grammar. Aimed to fortify foundational skills, propelling students toward intermediate coursework.

Credits 4.0

JPN 1111: Basic Japanese I

Functional use of Japanese for students with no prior knowledge of Japanese. Communication skills (speaking, listening, reading and writing skills). Drill included. New writing system. Supplementary practice with computer.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

JPN 1112: Basic Japanese II

Continuation from JPN 1111. Functional use of Japanese for students with no prior knowledge of Japanese. Communication skills (speaking, listening, reading, and writing skills). Drill included. New writing system. Supplementary practice with computer.

Credits 4.0

Prerequisites

JPN 1111

Prerequisite Courses

JPN 1111

Last Offered

Spring 2025, Spring 2024, Spring 2023, Summer 2022

JPN 1121: Intermediate Japanese I

Review of grammar and vocabulary. Recitations, readings, and oral drills. Further practice of communication skills (speaking, listening, reading and writing). Supplementary language laboratory work. PreReqs: JPN 1111, JPN 1112, or equivalent by permission of Language Coordinator

Credits 4.0

Prerequisites

JPN 1111 and JPN 1112

Prerequisite Courses

JPN 1111

JPN 1112

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

JPN 1122: Intermediate Japanese II

Continuation from JPN 1121. Review of grammar and vocabulary. Recitations, readings, and oral drills. Further practice of communication skills (speaking, listening, reading and writing). Supplementary language laboratory work. PreReqs: JPN 1111, JPN 1112, and JPN 1121, or equivalent by permission of Language Coordinator

Credits 4.0

Prerequisites

JPN 1111 and JPN 1112 and JPN 1121

Prerequisite Courses

JPN 1111

JPN 1112

JPN 1121

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

JPN 1131: Advanced Japanese I

Advanced practice of communication skills - oral, speech and discussion skills, reading and writing skills. Supplementary practice with computer. JPN 1122 or equivalent or permission of instructor.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

JPN 1132: Advanced Japanese II

Advanced practice of communication skills - oral, speech and discussion skills, reading and writing skills. Supplementary practice with computer. JPN 1131 or equivalent or permission of instructor.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

JPN 1133: Advanced Japanese III

Advanced practice of communication skills including reading, discussing topics on current events and speech. Supplementary practice with computer. JPN 1132 or equivalent or permission of instructor.

Credits 3.0

Prerequisites

JPN 1132

Prerequisite Courses

JPN 1132

Last Offered

Fall 2025, Fall 2023, Fall 2022, Fall 2021

JPN 1134: Advanced Japanese IV

Advanced practice of communication skills including reading, discussing topics on current events and speech. Supplementary practice with computer. JPN 1133 or equivalent or permission of instructor.

Credits 3.0

Prerequisites

JPN 1133

Prerequisite Courses

JPN 1133

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

JPN 1600: Japanese Short Topics

Topics on Japanese culture and language explored at basic levels and for a short length of time in the semester.

Credits 1.0

JPN 2101: Japanese Popular Culture

Engages Japanese gaming culture, game production, and global and national influence and power in diverse fields. Traditional cultural expressions, varieties of Japanese digital games, and their impact examined. Elective for Japanese and Asian Studies majors and minors.

Credits 3.0

JPN 2102: Japanese Film

Introduction to Japanese film to those who are interested in but not necessarily exposed to Asian culture and language. Fulfills requirements for minor in Japanese.

Credits 3.0

Last Offered

Fall 2021, Fall 2020, Spring
2019, Spring 2018

JPN 2103: Japanese Video Games & Gaming

Engages Japanese gaming culture, game production, and global and national influence and power in diverse fields. Traditional cultural expressions, varieties of Japan digital games, and their impact examined. Elective for Japanese and Asian Studies major and minors.

Credits 3.0

JPN 2143: Japanese Animation

Explores how anime is a reflection of Japanese society, art & culture. Introduction to rich & varied world of Japanese animated films by considering anime as medium, art, culture, & industry. Introduction to history, theory, aesthetics & cultural aspects of anime, with emphasis on 'the art of communication' with the medium. Fulfills requirement for Japanese minor.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Fall 2018,
Fall 2017

JPN 3412: Special Topics

Advanced study of topics of special interest in Japanese literary and/or cultural studies. May be repeated for credit if topic changes. Fulfills requirements for Japanese minor and concentration in East Asian Studies. Taught in English.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring
2024, Fall 2023

JPN 5900: JPN:Independent Study

Supervised study, activity or research. May be taken more than once. Prior approval of chair and instructor.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

RUS 111: Basic Russian I

Functional use of Russian for students with no prior knowledge of Russian, or Russian heritage speaker without reading and writing proficiency. Recitations, readings and oral drills. Supplementary language laboratory work. Part I of II.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

RUS 1112: Basic Russian II

Continuation from RUS 1111. Functional use of Russian for students with no prior knowledge of Russian, or Russian heritage speaker without reading and writing proficiency. Recitations, readings and oral, drills. Supplementary language laboratory work. Part II of II.
Credits 4.0

Prerequisites

RUS 1111

Prerequisite Courses

RUS 1111

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

RUS 1123: Intermediate Russian I

Review of Introductory Russian, followed by further development of reading, speaking, writing, and translation skills.
Credits 3.0

Prerequisites

RUS 1111 :D-

Prerequisite Courses

RUS 1111

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

RUS 1124: Intermediate Russian II

Continued development of skills employed in Intermediate Russian I.
Credits 3.0

Prerequisites

RUS 1123 :D-

Prerequisite Courses

RUS 1123

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

RUS 1131: Conversation Composition

Advanced communication skills including reading and discussing topics on current events.
Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

RUS 1132: Advanced Convers & Comp

A continuation of RUS 1131.
Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

RUS 4110: Russian Film

Understanding of Russian life and culture today by focusing on basic historical, ideological, economic, religious and cultural developments. Each student chooses one aspect of social development for further research. Conducted in English.
Credits 3.0

Last Offered

Fall 2025, Summer 2024, Fall 2023, Fall 2022

RUS 4120: The Russian Short Story

Representative Russian short stories from Pushkin to Pasternak. Conducted in English.
Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

RUS 5900: Russian:Independent Study

Supervised study, activity or research. May be taken more than once. Prior approval of chair and instructor.
Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SWA 1111: Intro Swahili Language I

Groundwork in Swahili, including oral proficiency, aural comprehension, and reading knowledge; for students with no prior knowledge of Swahili. Supplementary language laboratory work and oral drills.
Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2022, Fall 2021

SWA 1112: Intro Swahili Language II

Groundwork in Swahili, including oral proficiency, aural comprehension, and reading knowledge; for students with one semester of Swahili completed. Supplementary language laboratory work and oral drills.
Credits 4.0

Prerequisites

SWA 1111

Prerequisite Courses

SWA 1111

Last Offered

Spring 2025

SWA 1600: Swahili Short Topics

Topics on Swahili culture and language explored at basic levels and for a short length of time in the semester.
Credits 1.0

History

AAH 1101: His West Art:Ancient-Med

Art & architecture in Europe, the Mediterranean (esp. Greece & Rome,) & the Middle East in prehistoric, ancient, & medieval periods, with introduction to issues & themes of art history.
Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

AAH 1102: His West Art:Renaiss - Cont

The history of the visual arts in the West from the Early Renaissance to the present.
Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

AAH 1903: Internship Elective

An internship in an elective area of concentration.
Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

AAH 2000: Ancient Art

The artistic contributions of the ancient societies of Egypt, the Aegean, Greece and Rome, placed within appropriate cultural contexts.
Credits 3.0

Last Offered

Spring 2023, Fall 2020, Spring 2018, Spring 2017

AAH 2001: Medieval Art

European & Mediterranean art & architecture from the late Roman Empire to the 14th c. with emphasis on the social, religious & political contexts of visual production.
Credits 3.0

Last Offered

Fall 2022, Fall 2019, Spring 2017, Spring 2016

AAH 2002: Early Renaissance Art in Italy

Italian art & architecture from 1300-1480, investigation of the political, religious & social contexts of the visual productions of artists such as Giotto, Donatello, Masaccio, Mantegna & Botticelli.
Credits 3.0

Last Offered

Fall 2023, Spring 2022, Spring 2019, Spring 2017

AAH 2003: Age of Rembrandt & Bernini

Major works of European painting, sculpture, and architecture from the seventeenth through mid-eighteenth centuries. Special emphasis on how historical events affected the production of artistic monuments.
Credits 3.0

Last Offered

Spring 2025, Spring 2023, Fall 2020, Fall 2015

AAH 2004: Modern Art

An examination of the visual arts since 1900 that emphasizes their historical roots and present social significance.

Credits 3.0

Last Offered

Fall 2025, Spring 2024, Fall 2023, Fall 2022

AAH 2006: Visual Arts in the US

A survey of art from the colonial and revolutionary periods through the twentieth-first century. This course explores American artists, stylistic movements, and traditions of art production. It likewise examines prominent cultural moments related to the exhibition and display of art.

Credits 3.0

Last Offered

Spring 2005, Summer 2004, Spring 2003, Spring 2002

AAH 2009: Contemporary Art

Artistic movements and artists around the world from the 1960s to the present; Pop Art, Minimalism, Neo-expressionism, Arte Povera, Graffiti Art, and Performance Art, from Warhol to Wyeth to Haring and Koons.

Credits 3.0

Last Offered

Spring 2025, Fall 2023, Spring 2023, Spring 2022

AAH 2012: High Renaissance Art in Italy

Italian art & architecture from 1480 to 1550. Investigation of stylistic, political & social contexts of art. The idea of Mannerism & artists such as Leonardo, Michelangelo, Raphael & Titian.

Credits 3.0

Last Offered

Fall 2025, Spring 2023, Spring 2022, Spring 2020

AAH 3001: Women in Art

Themes and images of women in the visual arts as an expression of the needs, desires and attitudes of society; and a study of women artists from ancient times to the present, with regard to how being female may, or may not, have affected their work.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

AAH 3002: Art of Philadelphia

Philadelphia's unique contribution to American painting, sculpture, and architecture, from the early Swedish and Welsh settlers of the Delaware Valley, to Andrew Wyeth and Robert Venturi.

Credits 3.0

Last Offered

Fall 2024, Fall 2021, Summer 2020, Spring 2020

AAH 3003: Romantic to Post-Impress

Nineteenth century painting and sculpture in Europe and America, focusing on Cezanne, Courbet, Delacroix, Goya, Eakins, Homer, Manet, Monet, Rodin and West.

Credits 3.0

Last Offered

Spring 2023, Fall 2021, Fall 2018, Fall 2014

AAH 3004: Art and Activism

What role does art play in social change? How do artists participate in political movements? This course focuses on the intersection of art and activism, considering artworks, exhibitions, museums, and public spaces as sites of political speech.

Credits 3.0

AAH 3005: Gender Sexuality Visl Culture

Construction of gender and sexuality as visualized through art and various forms of visual culture. Topics include the gaze, feminist art, gendered construction of fashion, queer identities and art, and bodies and censorship.

Credits 3.0

Last Offered

Spring 2022, Spring 2021, Fall 2018, Fall 2016

AAH 3006: History of Photography

History of photographic styles and techniques from 1826-Present. Emphasis on the relation of photography to capitalism, colonialism, racism, feminism, and gender identities in contemporary culture.

Credits 3.0

Last Offered

Spring 2021

AAH 3007: The Art of Ireland

The visual arts in Ireland concentrating on the Golden Age from the 5th to the 9th Century: architecture of the early monastic settlements, manuscript illumination and its influence, and the cultural impact of the Irish forms of monasticism.

Credits 3.0

Last Offered

Spring 2025, Fall 2023, Fall 2021, Spring 2020

AAH 3009: Topics in Art History

Selected themes or periods in the history of art examined in depth.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

AAH 3011: History of the Art Market

A survey of the history of the art market from the 1600s to today, with an emphasis on the twentieth and twenty-first centuries, exploring the economic and political forces shaping various markets for the exchange of artworks.

Credits 3.0

AAH 3801: Art History Topics Abroad

Co-requisite 1-credit course designed to provide an embedded study-abroad experience to complement a requisite Art History course.

Credits 1.0

AAH 4010: Theories & Methods of Art Hist

An introduction to the theories and methods of the discipline of Art History, such as feminism, psychoanalysis, structuralism, deconstruction, post-colonialism, and postmodernism. Prerequisite: At least one prior Art History course. (AAH 1001 to AAH 3801) or permission of the Instructor.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

AAH 5010: Senior Research Seminar

Art History capstone writing and research seminar, which builds on AAH-4010 Interpreting Art. Students practice advanced art historical research and write culminating research project.

Credits 3.0

Prerequisites

AAH 4010 :D-

Prerequisite Courses

AAH 4010

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2020

AAH 5515: Independent Research

An intensive research project under individual direction. Permission of chairperson required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HIS 1060: Topics in Religion & Society

Selected core courses exploring religion in different eras with emphasis on cross cultural interaction.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Spring 2024, Spring 2023

HIS 1065: Topics Nature, Environ & Tech

Selected core courses exploring relationship between environmental and technological change in different eras and societies.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HIS 1070: Topics Empire and Imperialism

Selected core courses on empire and practice of imperialism in different eras.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

HIS 1075: Topics in Race & Gender

Selected core courses exploring issues of race and/or gender in different eras.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Summer 2023

HIS 1150: Topics in Atlantic World

This course will trace the formation of diverse societies, culture, politics, and interactions in the Atlantic basin beginning in the 15th century Primary source material will be analyzed.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

HIS 1155: Topics in America & the World

Selected core courses offering transnational perspectives on the development of American society.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

HIS 1165: Topics Global Perspectives

Selected core courses that take a global or comparative approach to major issues.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

HIS 1250: Top in Ancient Civilizations

Selected core courses on different aspects of ancient world, its classical origins, the influence of Christianity upon societies the development of its institutions and culture, and its spread to include almost the entire European continent.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

HIS 1903: Internship Elective

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

HIS 1906: Internship Elective

Credits 6.0

Last Offered

Summer 2024, Fall 2016, Fall 2015, Spring 2015

HIS 2000: Investigating U.S. History I

In-depth study of American history from the pre-Columbian period to the Civil War and Reconstruction, with a particular emphasis on engaging historical problems as a process of inquiry and interpretation. Designed especially for history majors and future teachers, but open to all students.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

HIS 2001: Investigating US History II

In-depth study of American history from the end of Reconstruction to the present, with a particular emphasis on engaging historical problems as a process of inquiry and interpretation. Designed especially for history majors and future teachers, but open to all students.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

HIS 2002: Historian's Craft

Learn how to think and research as a historian. Apply historical methods, analyze primary sources, develop independent research, and engage in professional development. This course is geared towards current and prospective History majors.

Credits 3.0

Last Offered

Fall 2025, Spring 1995

HIS 2151: Colonial America

The political, economic, social, and intellectual life of the American colonies and the clash of racial and ethnic groups in America to 1763.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2019

HIS 2161: Revolutionary & Fed Amer

The colonial resistance to Great Britain; the making of the Constitution; and the continuing struggle, to 1810, to define the meaning of the Revolution.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Spring 2020

HIS 2181: Civil War & Reconstruct

A study of the causes of a war in which Americans fought Americans; the war's evolving nature and eventual outcome; the fight over the meaning and the extent of reconstruction; and the long term political, economic, and social consequences of the war and the end of slavery.

Credits 3.0

Last Offered

Spring 2024, Fall 2022, Fall 2020, Spring 2019

HIS 2200: US Govt & the Law, 1900-1945

Study of the US Government's legislative efforts regarding labor, health and hygiene from 1900 to 1945.

Credits 3.0

Last Offered

Spring 2025

HIS 2201: United States 1914-1945

Major problems and domestic developments in the United States in World War I, the 1920s, the Great Depression and World War II.

Credits 3.0

Last Offered

Fall 2023, Fall 2020, Spring 2019, Fall 2017

HIS 2202: United States since 1945

Major problems and domestic developments in the United States since 1945: reconversion, Cold War, the "Good Society" of the 1950s

Credits 3.0

Last Offered

Spring 2021, Spring 2020, Summer 2012, Summer 2011

HIS 2251: U. S. Foreign Rel 1776-1920

The completion of independence, hemispheric diplomacy, expansion, Civil War, and imperialism.

Credits 3.0

Last Offered

Spring 2013, Spring 2011, Spring 2009, Fall 2007

HIS 2252: U.S. For Rel 1920 - Present

Diplomatic history from World War I to the present, including involvement in European and Asian struggles, cooperation in international organizations.

Credits 3.0

Last Offered

Spring 2022, Fall 2019, Spring 2014, Fall 2010

HIS 2265: American Military History

The wars of America from their European antecedents to 1900; relations between the military and society; role of the military in national development.

Credits 3.0

Last Offered

Spring 2024, Fall 2021, Spring 2017, Fall 2014

HIS 2270: History of US Supreme Court

History of US Supreme Court. Topics include court's major decisions, historical development of the court and the court's effect on American society and politics.

Credits 3.0

Last Offered

Spring 2025, Spring 2024

HIS 2271: US Const. & Legal History

Major themes in American constitutional history. Role of the US Constitution and its interpretation in US political and legal history

Credits 3.0

Last Offered

Fall 2025, Fall 2024

HIS 2274: History of American Medicine

The evolution of American Medicine from the colonial period to the present day. Topics include the rise and fall of heroic medicine, the demise of scientific medicine, the growth of modern surgery, the evolution of medical practice.

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Fall 2021, Fall 2019

HIS 2278: Native American History

Study of American Indians from pre-Columbian times to the present, including land use practices, social customs, gender relations, U.S. government removal and assimilation policies, post-colonial political economy, and contemporary issues of cultural identity and sovereignty.

Credits 3.0

Last Offered

Fall 2024, Spring 2022, Fall 2018, Fall 2012

HIS 2286: Irish-American Saga

Pre-famine Irish emigration to North America; the famine; post-famine movement; Irish-American labor, politics, urban and suburban developments.

Credits 3.0

Last Offered

Fall 2025, Spring 2024, Spring 2023, Spring 2022

HIS 2291: African Amer His during Slaver

The forced migrations of Africans to the New World, the institution of slavery, and the struggle of Afro-Americans to gain equality in American society.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2020, Fall 2018

HIS 2292: African Amer His since Emancip

Themes of resistance and creativity with the development of the African-American communities in the era following the Civil War. Reconstruction, Northern migration, Jim Crow and segregation, and protest thought and Civil Rights.

Credits 3.0

Last Offered

Spring 2025, Spring 2019,
Spring 2017, Spring 2016

HIS 2296: History of American Women

The study of the influence of region, race, and ethnicity on gender definitions in America; and the impact of those ideas in shaping women's lives, sexuality, housework and wage labor, and access to power and politics, from the colonial period to the present.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

HIS 2310: Historic Preservation

Introduction to history and practice of historic preservation of buildings and landscapes with focus on US. Students will learn how to research buildings, analyze law and public policy, engage with community planning and assess environmental and economic outcomes.

Credits 3.0

HIS 2312: Histories for Sustainability

Explores how historical thinking and knowledge are necessary to build environmental, social, and economic sustainability today. Topics include climate history, Indigenous knowledge, ?green? capitalism, Black ecologies, historical tourism, historians as activists, conservation, and gentrification.

Credits 3.0

HIS 2322: Colonial Latin America

Establishment and maintenance of a Hapsburg colonial state; indigenous responses to religious and secular colonization; the creation of a multicultural society from African, indigenous, and Iberian peoples from the 1580s to the 1780s.

Credits 3.0

HIS 2323: Revolutionary Latin America

Latin America's revolutionary century from the beginnings of political revolt in the 1780s to economic modernization in the 1880s. Bourbon Reforms; indigenous revolts and slave rebellions; liberal revolutionary movements, political independence & economic independence.

Credits 3.0

HIS 2324: Contemp Lat Amer History

20th century economic inequalities, U. S. intervention and military dictatorships, cultural imperialism and immigration Communism in Latin America, human rights within a multiracial society.

Credits 3.0

HIS 2338: Topics Latin Ameri Hist

Selected topics in Latin American history.

Credits 3.0

HIS 2410: Ancient Greeks and their World

Meet the ancient Greeks and learn about how their societies evolved between the Bronze Age and the arrival of the Romans. Explore the ancient Greek world from Mycenae to Athens to Sparta to Thebes and beyond.

Credits 3.0

HIS 2414: The Roman Empire

Pax Romana from reforms of Augustus to the break-up of the western Empire in the fifth century A.D. Topics include provincial life, romanization of indigenous peoples, lculture and decadence in the capital, and the rise of Christianity.

Credits 3.0

HIS 2420: Seven Wonders of Ancient World

Explore four different ancient societies between ca. 3000 BCE-500 CE: Egyptian, Babylonian, Greek, and Roman. Topics include archaeology, historiography, and the modern reception of the seven wonders.

Credits 3.0

Last Offered
Spring 2025

HIS 2442: Sex & Gender Ancient World

Social constructions gender in ancient Near East, ca. 3200-500 BCE, using artifacts and textual sources to learn how gender functioned in legal systems, religion, and family life. Topics include gender and power, women and experiences, same-sex relationships, gender ambiguity.

Credits 3.0

HIS 2443: Cleopatra in History

Explores the primary evidence for Cleopatra's reign in ancient Egypt, the kingdom over which she ruled. Students will investigate Cleopatra's reception over time to compare with the image of her we have today.

Credits 3.0

HIS 2450: Archeology: Age of Pyramids

It is through the study of archaeological evidence that the history of ancient Egypt can be reconstructed. This course will begin with the unification of Egypt (ca. 3100 BCE) and continue to the end of the Second Intermediate Period.

Credits 3.0

Last Offered
Fall 2025, Fall 2024

HIS 2451: Archaeology/ Egypt's Golden Age

Archaeological evidence and the history of ancient Egypt. Explores emergence of the New Kingdom when the Egyptians were creating their first empire and continues to the coming of Alexander the Great.

Credits 3.0

HIS 2498: Topics in Ancient History

Topics in Ancient History
Credits 3.0

HIS 2520: Byzantine Civilization

History and culture of the eastern Roman Empire from founding of Constantinople in 330 to its capture by the Ottoman Turks in 1453. The emperor's court, art, architecture, monasticism, women, the rise of Islam and the Crusades.

Credits 3.0

HIS 2531: Robin Hood: Myth & History

Who was Robin Hood? Was he England's best archer, noble outcast, and friend of the downtrodden? We will trace his medieval legend through the centuries culminating in the movies and novels of today.

Credits 3.0

HIS 2534: The Renaissance

Cultural, political, and intellectual developments in Europe from the late-Medieval period to the Enlightenment. Focus on how the European Renaissance was mediated through material culture and technologies and problematize teleological ideas of "revolution" and "reformation" in a global context."

Credits 3.0

HIS 2535: The Reformation

Catholic, Protestant, and popular reform theories and religious upheaval. 16th C. revolution with emphasis on the economic social, and political background of the crisis of feudalism and critique of the church and early modern state.

Credits 3.0

HIS 2537: Rome: Emperors, Popes & Saints

Forces and personalities that helped to shape Rome's identity and place in the world.

Credits 3.0

Last Offered

Fall 2024

HIS 2545: Women in Pre-Modern Europe

What were women's lives like in Europe before 1800 C.E.? What rights did different women have from antiquity to the French Revolution? What were most women's everyday responsibilities? What religious literary, and artistic role did they play?

Credits 3.0

HIS 2560: The Enlightenment

The cultural transition to modernity in 18th Century Europe. Social, cultural, and political critiques of status quo. Tension between religion and science. New perceptions of civil society, economics and crime and punishment, and art. Creation of a reading public.

Credits 3.0

HIS 2563: Europe on Eve of World War I

European history between unification of Germany and WWI. Politics, diplomacy, economic transformations, art, literature, and revolutionary movements will be explored.

Credits 3.0

HIS 2565: Women in Modern Europe

The changing roles of women in society and politics in Europe from the 18th to 20th centuries. Topics include women in politics and government; women and the economy; women and revolution; & feminism and feminist movement.

Credits 3.0

HIS 2570: 20th Century Europe

Social, political, and cultural history of Europe from the fin de siècle to European unification; world wars and revolution, East-West divide, consumer society and popular protest.

Credits 3.0

HIS 2575: Europe since 1945

Europe from the end of World War II to the European Union; postwar reconstruction; Cold War; the growth of consumer society, the collapse of the Soviet Empire; changing conceptions of European identity.

Credits 3.0

HIS 2602: Britain 1660-1815

Emergence of Britain as the preeminent global capitalist economy and political power from the court of Charles II to Britain's loss of its American colonies and its victory over revolutionary France.

Credits 3.0

HIS 2603: Great Britain since 1815

British politics, society and culture from the triumph of Waterloo through the world of the Beatles. Topics include industrial conflict, urban poverty and radical politics; Anglo-Irish relations, women's movements, imperialism and decolonization; & youth culture.

Credits 3.0

HIS 2610: Eighteenth Century Ireland

Ireland from the Reformation to the Act of Union with particular emphasis on the rise and impact of the Protestant Ascendancy.

Credits 3.0

HIS 2612: Ireland since 1800

The social and political history of the Irish state in the 19th and 20th centuries.

Credits 3.0

HIS 2618: Topics in Irish History

Exploration of emerging topics in field of Irish History, including but not limited to the Act of Union, the impact of the Protestant Ascendancy, and the cultural, social and political history of the modern Irish state.

Credits 3.0

HIS 2620: French Rev and Napoleon

Credits 3.0

HIS 2622: History of Modern France

Major developments, problems, and policies connected with the evolution of the French nation and its empire from 1815 to the present.

Credits 3.0

HIS 2630: Modern Germany

The German lands from 1800 to the present, changing conceptions of Germany and dilemmas of German history.

Credits 3.0

HIS 2633: Hitler and Nazi Germany

German from the rise of Hitler to the end of the Second World War.

Credits 3.0

Last Offered
Fall 2025

HIS 2640: Russian History to 1801

The development of Russia from the founding of Kievan Rus through the era of Ivan the Terrible to the great European power ruled by Catherine the Great. Autocracy, civil wars, peasant rebellions, and foreign invasions.

Credits 3.0

HIS 2641: Imperial Russia, 1762-1917

History of Imperial Russia from the reign of Catherine the Great to the fall of Nicholas II and the Romanov dynasty. Topics include politics, culture, society, and revolutionary movements in Russia during the late 18th-early 20th centuries.

Credits 3.0

Last Offered
Fall 2024

HIS 2642: Russia & USSR: 1917-present

History of the Russia and the Soviet Union from the collapse of the Romanov Dynasty to the Present. Political and cultural history are explored from the Bolshevik Revolutions through the Soviet and Post-Soviet eras. Special focus on authoritarian rule.

Credits 3.0

HIS 2643: Eastern Europe, 1945-1989

Eastern and Central Europe from the end of World War II through the Revolutions of 1989. Focus on political, social and cultural history of the region and the nature of these states' relationship with the Soviet Union.

Credits 3.0

Last Offered
Spring 2025

HIS 2645: Holocaust in History & Memory

This class explores the Holocaust's roots in antisemitism and the prewar years, details the evolution of the Final Solution, and investigates its place in memory and history.

Credits 3.0

Last Offered
Spring 2025

HIS 2698: Topics in European History

Select topics in European History.

Credits 3.0

HIS 2701: Hist Modern Middle East

The political, economic and social history of the Middle East with emphasis on the passing of imperial institutions and emergence of republics, trade and commerce, colonialism, and revolutionary movements.

Credits 3.0

HIS 2720: Women in the Middle East

Middle Eastern women from the seventh century to the present. Women's lives and experiences, their influence and contribution to the economy, politics, literature & the arts. Effects of regional, ethnic, class & religious differences on women's status and activities.

Credits 3.0

Last Offered
Fall 2025

HIS 2728: Top Middle Eastern Hist

Selected topics in Middle Eastern history.

Credits 3.0

HIS 2730: Emergence Modern Africa

The impact of 19th century European colonialism on Africa the division of Africa into European dependencies; change and continuity in African culture; the emergence of independent African nation states after World War II; their difficulties and opportunities.

Credits 3.0

HIS 2738: Topics African History

Selected topics in African history.

Credits 3.0

Last Offered
Fall 2025

HIS 2811: The US and the Asia-Pacific

Explores the political, economic, and military interactions connecting the US, China, Japan, and southeast and east Asia across the 20th century.

Credits 3.0

Last Offered
Spring 2025

HIS 2812: History of Modern East Asia I

East Asia region (China, Japan, Korea, Taiwan, Hong Kong), late 19th century to mid-20th century. Topics include Sino-Japanese War, revolution in China, colonialism in Korea, Taiwan, and Hong Kong, rise and fall Japan's empire, and Korean War.

Credits 3.0

HIS 2813: Modern East Asia II

East Asia region (China, Japan, Korea, Taiwan and Hong Kong), mid-20th century to present. Topics include communist revolutions in China and Korea, occupation Japan, economic "miracles" in Japan

Credits 3.0

HIS 2821: China in Ware & Rev, 1895-1949

Survey of the first half of China's twentieth century, from 1895-1949. Topics include the revolution toppling China's last empire; China's descent into warlordism; struggles to reunify the nation; ware with Japan; and the Communist revolution of 1949.

Credits 3.0

HIS 2822: Modern China, 1949-Present

China during its republican and Communist periods.

Credits 3.0

HIS 2830: Modern Japan

The social and political history of modern Japan (1868-Present); its dramatic rise to world power status, the long road to WW II, the impact of Allied Occupation; themes of cooperation and conflict in state-relations.

Credits 3.0

HIS 2840: Cult. of East Asian Capitalism

Thematic historical survey focusing on relationship between economic and social, cultural, and intellectual processes around the world in the last three centuries. Global scope but emphasis on historical experiences of East Asia, primarily China & Japan.

Credits 3.0

HIS 2850: History of Modern South Asia

History of Indian subcontinent from late Mughal period through British Empire, culminating in independence and partition in 1947. Emphasis on knowledge, power and state formation; resistance, revolution, and nationalism; gender and the role of women; and post colonial legacies.

Credits 3.0

HIS 2852: Modern India and Pakistan

Modern history of the Indian subcontinent from late Mughal Empire to the present. Themes include: expansion of British power, anti-colonial nationalism, birth of Indian and Pakistan, and contemporary politics, economics, and culture in the region.

Credits 3.0

HIS 2868: Topics in Asian History

Selected topics in Asian history.

Credits 3.0

HIS 2924: Science&Society-EarlyMod World

Development of science & consequential transformations in mechanics, anatomy, astronomy, botany and physics (1400-1700). Special attention to the social and human contexts in which science and scientific knowledge was produced.

Credits 3.0

HIS 2930: 20th Cent Military Hist

The major wars of the 20th century: World War I, World War II, Korea and Vietnam. Cold War, wars of liberation.

Credits 3.0

HIS 2931: World at War, 1939-1945

Visions and experiences of a global war; Nazism and a culture of total war; war and civilians; racism and the Holocaust; the atomic bomb; historical commemoration and memory

Credits 3.0

HIS 2940: The Cold War

The origins, conduct, and outcomes of the Cold War, and analysis of evolving interpretations of this conflict and its significance.

Credits 3.0

HIS 2950: History of Human Rights

Survey of the history of human rights. Topics include: the intellectual origins of human rights; the United Nation's efforts to codify human rights protection after WWII; and the ongoing affronts to human rights around the world.

Credits 3.0

Last Offered
Spring 2025

HIS 2955: Jewish History

The Jews in relation to the larger civilizations in which they have lived; Jewish intellectual and moral contributions; Jewish history in the Christian world; the Holocaust; formation of a Jewish homeland, Israel.

Credits 3.0

HIS 2956: Holocaust in History & Memory

The Holocaust was a seminal event of the twentieth century. This multimedia-rich class explores the Holocaust's roots in antisemitism and the prewar years, details the evolution of the Final Solution, and investigates the developments in history and memory since.

Credits 3.0

HIS 2985: Topics Comparative Hist

Selected topics in non-Western and world history.

Credits 3.0

HIS 2986: Topics History of Gender

Selected themes in the history of gender examined in depth.

Credits 3.0

HIS 2987: Topics in the History of Race

Selected themes in the history of race examined in depth.

Credits 3.0

HIS 2988: Topics in Public History

Selected themes in public history examined in depth.

Credits 3.0

HIS 2990: Topics in World History

Selected topics in world history.

Credits 3.0

Last Offered

Fall 2025, Fall 1996, Summer 1996, Spring 1996

HIS 2993: Hist Internship

An internship in a local historical archive, museum, park, or library.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Summer 2024, Fall 2023

HIS 2996: Hist Internship

A more extensive internship in a local historical archive, museum, park, or library.

Credits 6.0

Last Offered

Summer 2024, Summer 2023, Summer 2022, Summer 2021

HIS 2998: Topics in American History

Selected topics in American history of interest to faculty and students.

Credits 3.0

Last Offered

Fall 2024, Summer 2024, Spring 2024, Fall 2023

HIS 3006: Medieval Europe 500-1500

Evolution of European West from its classical origins. Influence of Christianity on European institutions and culture. Relations between European West and both Islam in the Near East and North Africa, and the Christian Byzantine East of Europe and Russia.

Credits 3.0

Last Offered

Spring 2023, Spring 2021, Fall 2013, Spring 2012

HIS 3014: Alexander the Great-Cleopatra

How the ancient Mediterranean world changed between the conquests of Alexander the Great and the death of Cleopatra VII; Hellenistic society, kings and queens, Ptolemaic Egypt, science and art, and encounters between Greeks and Romans.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Spring 2021, Fall 2014

HIS 3120: Infamous Medieval Women

Between 500-1500 C.E. in Europe certain women were accused of poisoning, witchcraft, adultery, whoredom, and assassination of their husbands and children. Learn about these women and how the accusations relate to their roles in society.

Credits 3.0

HIS 3242: Russia from Stalin to Putin

Russia from the 1917 Revolution to the present; the radical transformation of a state, economy and society in revolution and civil war, the Stalin dictatorship, the trial of World War II, and the patterns of reform and continuity in the post-Stalin and post-Soviet eras.

Credits 3.0

Last Offered

Fall 2023, Fall 2022, Spring 2019, Spring 2016

HIS 3245: Russia & E. Europe since 1989

Examines history of the former Soviet Union and its states from 1989 to the present. Topics include 1989 revolutions; collapse of the USSR; German reunification; Yugoslav Wars; the rise of Putin; Color Revolutions; terrorism; Maidan; War in Ukraine

Credits 3.0

HIS 3355: Cleopatra in History

Egyptian archeological record, Greek and Roman sources, modern literature, and film to study life and legacy of Cleopatra VII (first century BCE), Queen of Egypt.

Credits 3.0

HIS 3375: Modern Europe through Soccer

This course explores modern Europe from 1850 to the present, using the evolution of soccer across Europe as a means to investigate politics, culture, and society across a tumultuous century and a half of European triumph and tragedy.

Credits 3.0

HIS 3450: Crime, Power & Justice

Critical examination of the relationships between crime, law, power and justice over time. This course focuses on the interconnected histories of issues such as crime and punishment, identity, wealth and poverty, violence and the law.

Credits 3.0

Last Offered
Spring 2025

HIS 3601: Building a Nation 1800-50

The development of the Republic from the presidency of Jefferson through the Mexican War; revolutions in transportation and commerce, struggles of nationalism and sectionalism; issues of race and gender and the ferment of reform.

Credits 3.0

HIS 3621: History of Philadelphia

Investigation of the city's past and present through reading historical accounts and exploring today's city. Changes and continuity in politics, economy, and social composition from 1682 to today, esp. social structures and the changing physical environment of the city.

Credits 3.0

HIS 3680: Artifacts in History

Cultural history as revealed through artifacts, including everyday objects, decorative arts, and architecture; issues and controversies related to museum exhibits; the role of the internet in material cultural studies.

Credits 3.0

HIS 3750: The Sixties

Explores American and European 1960s social movements via essays, memoirs, films, and music. Examines the complex and fascinating social, cultural, and political history of this turbulent and important era in modern history.

Credits 3.0

HIS 3801: History Topics Abroad

Co-requisite 1-credit course designed to provide an embedded study-abroad experience to complement a requisite History course. Must also enroll in [3-credit course] as corequisite; Required for embedded course, [name of course, e.g., Europe since 1945]

Credits 1.0

Last Offered
Fall 2024

HIS 4332: Modern China II: 1949-Present

Modern and contemporary China, from 1949 to the present. Covers the Communist revolution 1949, under the rule and leadership of Mao Zedong; post-Mao transition and liberalization; Cold War rivalries; global reintegration since the 1980s; and new geopolitical hostilities.

Credits 3.0

Last Offered
Spring 2024

HIS 5001: Junior Research Seminar

The junior research seminar introduces majors to research methods, sources, and historiography -- how historians have reconstructed, interpreted, and written about the past. By examining diverse interpretations and historical controversies, the seminars help students develop their abilities to critique historical arguments and develop their own arguments. The course prepares history majors for their Senior Research Methods course, HIS 5501.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

HIS 5501: Sem in Historical Methodology

Student research and reports. Seminar format. Written permission of chair required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HIS 5515: Independent Research

An intensive research project under individual direction. Written permission of chair required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

Honors

HON 1000: Interdisc Humanities I: PHI

Major works and ideas from the classical Graeco-Roman and Christian traditions. Emphasis on philosophical ideas. Extensive reading and writing requirements. Team-taught.

Credits 3.0

Last Offered

Fall 2020, Fall 2019, Fall 2018, Fall 2017

HON 1003: Interdisc Humanities I: THL

Major works and ideas from the Graeco-Roman and Christian traditions. Emphasis on religious thought and development. Extensive reading and writing requirements. Team-taught.

Credits 3.0

Last Offered

Fall 2020, Fall 2019, Fall 2018, Fall 2017

HON 1005: Interdisc Humanities I

Honors seminar on major works and ideas from the classical Graeco-Roman world. Emphasis on literature, drama, and performance.

Credits 1.0

Corequisites

HON 1000, HON 1003

Corequisite Courses

HON 1000

HON 1003

Last Offered

Fall 2020, Fall 2019, Fall 2018, Fall 2017

HON 1006: Interdisc Humanities II

Honors seminar on major works and ideas from the medieval, Renaissance, and early modern periods. Emphasis on literature, drama, and performance.

Credits 1.0

Corequisites

HON 1051, HON 1053

Corequisite Courses

HON 1051

HON 1053

Last Offered

Spring 2021, Spring 2020, Spring 2019, Spring 2018

HON 1007: Interdisc Humanities III

Honors seminar on major works and ideas from the modern and contemporary periods. Emphasis on literature, drama, and performance.

Credits 1.0

Corequisites

HON 2002, HON 2005

Corequisite Courses

HON 2002

HON 2005

Last Offered

Fall 2021, Fall 2020, Fall 2019,
Fall 2018

HON 1051: Interdisc Humanities II:LIT

Major works and ideas from the Medieval period to the French Revolution. Emphasis on the evolution in literature from medieval to modern. Extensive reading and writing requirements. Team Taught. (3 cr) Sem 2. Two coreq: HON 1050, 1052, 1053, 1054.

Credits 3.0

Last Offered

Spring 2021, Spring 2020,
Spring 2019, Spring 2018

HON 1053: Interdisc Humanities II:THL

Major works and ideas from the Medieval period to the French Revolution. Emphasis on the evolution in religious thought and institutions from medieval to modern.

Credits 3.0

Last Offered

Spring 2021, Spring 2020,
Spring 2019, Spring 2018

HON 2002: Interdisc Humanities III: HIS

Major works and ideas of the 19th and 20th centuries, with emphasis on historical developments. Extensive reading and writing requirements. Team-taught.

Credits 3.0

Last Offered

Fall 2021, Fall 2020, Fall 2019,
Fall 2018

HON 2005: Interdisc Humanities III: ETH

Major works and ideas of the 19th and 20th Centuries, with emphasis on ethical thought. Extensive reading and writing requirements. Team taught.

Credits 3.0

Last Offered

Fall 2021, Fall 2020, Fall 2019,
Fall 2018

HON 4400: Justice Seminar Abroad

Two week intensive course abroad examining social justice efforts in another country. Lectures by local experts and site visits.

Credits 3.0

Last Offered

Summer 2022

HON 4800: Theology & Religious Studies

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

HON 5001: Shaping A College Life

Shaping a College Life aims at helping Honors students navigate successfully the transition of high school to college by inviting them into a co-curricular one-credit experience focused around several themes. This is a graded course that can be bundled with 2 other approved 1 credit courses for Honors credit.

Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

HON 5002: Shaping an Adult Life 1 Credit

Shaping an Adult Life 1 Credit invites students to examine the three building blocks of a flourishing adult life: work, leisure, and relationships. Can be bundled with other 1 credit Honors courses.

Credits 1.0

Prerequisites

Last Offered

Spring 2025, Spring 2024

HON 5003: Shaping a Work Life

Professional development seminar focusing on the meaning of work and developing and achieving career goals. Course will combine in-class and out-of-class activities engaging students to explore career and calling.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Fall
2022, Fall 2021

HON 5300: Enrichment: Topics

Intensive experiential courses providing enrichment opportunities. Individual and group participation directed toward enhancing intellect and delight.

Credits 1.0

Last Offered

Fall 2023, Spring 2023, Spring 2022, Spring 2021

HON 5305: Colloquium

Colloquium is a one-credit seminar for Honors students that is capable of being bundled into a 3-credit course. Course meets once a week. Discussion of books and readings selected by instructor. May be repeated.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

HON 5400: Performing Arts: Dance

Intensive experiential courses in performance, literary, and plastic arts. Individual and group participation directed toward reflexive understanding of one's self as engaged in the process of creativity.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

HON 5410: Performing Arts: Instrument

Intensive experiential courses in performance, literary, and plastic arts. Individual and group participation directed toward reflexive understanding of one's self as engaged in the process of creativity.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HON 5440: Literary Arts:Poetry

Intensive experiential courses in performance, literary, and plastic arts. Individual and group participation directed toward reflexive understanding of one's self as engaged in the process of creativity.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HON 5445: COLL: Poetry Workshop

Intensive experiential courses exploring poetry and inspiration. Site visits usually included. Individual and group participation directed toward reflexive understanding of one's self engaged in the process of creativity. May be taken with other Honors poetry courses

Credits 1.0

Last Offered

Spring 2025

HON 5460: Plastic Arts: Painting

Intensive experiential courses in performance, literary, and plastic arts. Individual and group participation directed toward reflexive understanding of one's self as engaged in the process of creativity.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

HON 5465: Studio Arts: Painting

Intensive experiential courses in studio arts. May include site visits for inspiration. Individual and group participation directed toward reflexive understanding of one's self as engaged in the process of creativity.

Credits 1.0

Last Offered

Spring 2025

HON 5490: COLL: Cultural Ldrship 4StdyAb

Civic engagement skill set development in global events; cultural trends; intercultural communication; and discourse across academic disciplines.

Credits 1.0

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2020

HON 5500: Ind Study & Research

Independent Study and Research

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Fall 2022

HON 5501: Ind Study & Research

Independent Study and Research

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HON 5505: Independent Study - 1 cr.

Independent Study and Research.

Credits 1.0

Last Offered

Fall 2025

HON 5506: Ind Study & Res Science

Independent Study and Research in Science

Credits 3.0

Last Offered

Summer 2025, Summer 2023, Fall 2022, Summer 2022

HON 5507: Ind Study & Res Science

Independent Study and Research in Science

Credits 3.0

Last Offered

Spring 2022, Spring 2021, Spring 2020, Spring 2019

HON 5598: Teaching Practicum

Teaching Practicum.

Credits 1.0

Last Offered

Spring 2021, Spring 2020

HON 5599: Teaching Practicum

Intern teaching under supervision of Practicum Coordinator.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

HON 5700: Colloquia

Credits 3.0

Last Offered

Fall 2022, Fall 2021, Fall 2020, Fall 2019

HON 6000: Senior Thesis I

Major independent research project under the direction of a thesis advisor. The first semester includes a comprehensive proposal and bibliography, research design, detailed outline, and substantive writing sample.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

HON 6002: Senior Thesis II

Major independent research project under the direction of a thesis advisor. In addition to completing the thesis, students must participate in the Senior Research Conference and thesis defense.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HON 6003: Integrative Capstone

Course will prepare students pursuing the Honors Degree through the non-thesis track for their oral examination.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Human Resource Management

HRMG 2000: Introduction to Human Resource

This course will focus on the organizational context for human resources and provide students with a broad overview of the major functional areas of HR including staffing, performance management, employee and labor relations, U.S. employment law, workplace health and safety, compensation, and benefits. This course is a prerequisite course for each of the new courses being designed for this major: HRM 2010, HRM 2020, HRM 2030, and HRM 5000.

Credits 3.0

Last Offered

Summer 2025, Spring 2025, Spring 2024, Spring 2023

HRMG 2010: Employment Law

This course will provide an overview of current employment laws in the United States. Major legislation that impacts the workplace will be discussed. This course will help students gain an understanding of both the business and ethical environment associated issues like employee rights, safety and healthy, and discrimination in the work place.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

HRMG 2020: Talent Acquisition&Employee Dev

This course will focus on HR's role in talent acquisition and talent management throughout the employee life cycle. Students will discuss a broad range of talent and performance management challenges including employment branding, recruiting, selection, employee engagement, and training and development. Students will gain an understanding of job analysis, job descriptions, onboarding, the ADDIE model, needs assessment, and realistic job preview throughout this course.

Credits 3.0

Prerequisites

HRMG 2000

Prerequisite Courses

HRMG 2000

Last Offered

Fall 2025, Summer 2024, Fall 2022

HRMG 2030: Managing Compensation&Benefit

This course will focus on managing employee compensation and benefits. Students will evaluate compensation models used in organizations like base pay, merit pay, profit sharing, pay-for-performance, and lead/lag/match market-based strategies. Students will gain an understanding of major employee benefits offered by organizations.

Credits 3.0

Prerequisites

HRMG 2000

Prerequisite Courses

HRMG 2000

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

HRMG 5000: HR Management Resrch Capstone

HR Management Research Capstone

Credits 3.0

Prerequisites

HRMG 2000 and HRMG 2010 and HRMG 2020 :Y and HRMG 2030 :Y

Prerequisite Courses

HRMG 2000

HRMG 2010

HRMG 2020

HRMG 2030

Last Offered

Fall 2024, Fall 2023

Humanities

HUM 1903: Internship

Credits 3.0

Last Offered

Spring 2021, Fall 2020, Spring 2020, Fall 2019

HUM 1906: Internship

Credits 3.0

Last Offered

Fall 2020, Spring 2020, Fall 2019, Spring 2019

HUM 1975: Epiphanies of Beauty

Exploration of literary arts as illuminating human condition and mystery of creation through several genres: novel, novella, drama, poetry, short story. T.S. Eliot, Claudel, G.M. Hopkins, J. Joyce, Flannery O'Connor, R.L. Stevenson, O. Wilde.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HUM 2001: THL:God

What is religion, anyway? Do we need it anymore? What is the place of religion in the contemporary world? How revelation might illuminate God and creation in a way that transforms the world? Fulfills an upper level Theology in the Core Curriculum.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HUM 2002: Human Person

What is human nature, human destiny? How does one become more deeply human? What does it mean to act for the human good? How can we discover meaning in primordial human experiences such as love, mortality, finitude, and suffering?

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HUM 2003: PHI:World

Modern science is a dominant way of interpreting the world, and so human life. How does modern science interpret the world? What are the effects of this interpretation on the way we view human beings? Fulfills an upper level Philosophy in the Core Curriculum.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HUM 2004: PSC:Society

Political, economic, and family life dominate our concerns and yet we seem cynical about possibly finding meaning in them. How is our dependent, rational nature developed through marriage, family, work, markets, and government? Fulfills an upper level Political Science in the Core Curriculum.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HUM 2100: HIS:The Goods & the Good Life

Explore issues in economic life through texts in theology, philosophy, history, anthropology, literature, and arts. Why do we work, what is the difference between work and toil? What does the production and consumption of things tell about the human person, world, and God?

Credits 3.0

Last Offered

Spring 2025, Fall 2022, Spring 2021, Spring 2013

HUM 2900: Topics

Specific topics vary each semester.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HUM 2950: Vocation and Purpose

Reflection on Villanova college experience in guided seminar discussion and workshops designed to envision and shape post-graduate career and life paths. Restriction: Instructor Permission

Credits 1.0

Last Offered

Fall 2022, Fall 2021, Fall 2020, Fall 2019

HUM 2993: Internship

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HUM 2996: Internship

Humanities majors must satisfy all requirements set by the Internship Office. Students must submit a 10-15 page essay to the Humanities Chair copying the Internship Office. See department web page for particulars.

Credits 6.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

HUM 3001: ENG:Lewis Tolkien & Inklings

Explores the fictional, theological, and philosophic writing of C.S. Lewis, J.R.R. Tolkien, and the Inklings (Charles Williams, Dorothy L. Sayers, G.K. Chesterton, George MacDonald). Investigates the relationship between fantastic "otherworldly" fiction and human "wordly" experience. Fulfills an upper level Literature in the Core Curriculum."

Credits 3.0

Last Offered

Spring 2023, Spring 2022, Spring 2021, Spring 2020

HUM 3200: PSC: Politics & Human Nature

Our conception of human nature arises in part from our practice of politics and vice versa. What is the relationship between the way we think about the nature and meaning of human life and the practice of politics? Fulfills an upper level Political Science in the Core Curriculum.

Credits 3.0

Last Offered

Spring 2021, Spring 2013, Spring 2009, Fall 2006

HUM 3400: Nature, Technology, America

How has America reconciled its reverence for nature with its exceptional claims of technological prowess? Explores the intersection of nature and technology using Leo Marx's idea of "the machine in the garden" in American cultural

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Fall 2023

HUM 3600: Amer Architecture since 1865

Survey of architecture and town planning in the United States from 1865 to present. Themes of American exceptionalism, emergence of modern design, and continuity of traditional architecture. Major figures include Frank Lloyd Wright, Mies van der Rohe, Frank Gehry.

Credits 3.0

Last Offered

Fall 2025, Fall 2022, Fall 2015, Fall 2014

HUM 4000: Jews, Christians, Muslim Dialogue

An overview of the context of radical pluralism within which contemporary discourse occurs. An examination of the challenges of this situation, an observation of Aquinas' interaction with other thinkers, and a proposal for this medieval model for inter-religious inquiry.

Credits 3.0

Last Offered

Spring 2021, Fall 2014, Fall 2013, Spring 2011

HUM 4200: Forgiveness: Pers & Pol

This seminar mimes recent discussions that address these crucial questions: Does forgiveness abrogate justice? What is the place of anger and hate? May we forgive persons who will not repent? Is forgiveness a duty? Can forgiveness resolve political disputes and racial tensions?

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

HUM 4350: PHI: Dialectic of Love

Reading a broad survey of philosophical discussions of love, from Plato to Derrida, we will address a variety of questions concerning the nature of love, the relationship between self-interest, self-love, and love of other, whether Christianity makes a difference to the meaning of love, and related issues. Fulfills an upper level Philosophy in the Core Curriculum.

Credits 3.0

Last Offered

Spring 2024, Spring 2023, Fall 2021, Fall 2020

HUM 5150: Literature & Politics

Exploration of the relationship between literature and politics through novels, poetry, theater, and journalism. Authors: Orwell, Conrad, Zola, Wilde, Silone, Baldwin, and others.

Credits 3.0

Last Offered

Fall 2023, Spring 2016, Spring 2009, Spring 2007

HUM 5950: Citizenship & Globalization

Examination of the sweep of British History since 1327, with special attention to four periods: Medieval England; Early-Modern London and Reformation, Renaissance, and Revolution; Eighteenth and Nineteenth Century Britain and the growth of Empire; and Post-Colonial United Kingdom and the European Union. Consideration given to English Music, Art and Architecture, Literature, and Political Theory. To take place partly in London.

Credits 3.0

Last Offered

Summer 2024, Summer 2023, Summer 2022, Summer 2019

HUM 5975: Pellegrinaggio: Augustine

Learn more about the life and works of St. Augustine of Hippo. Examination of the life and writings of St. Augustine in preparation for the pilgrimage to Italy, and on-site exploration of Augustine's historical context and legacy.

Credits 3.0

Last Offered

Summer 2024, Fall 2016, Fall 2014

HUM 6500: Senior Seminar

The department's capstone is a seminar, meeting once a week, in which students read contemporary texts on issues they have engaged in their study of the humanities.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

HUM 6950: Ind Study & Research

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

Information Systems and Technology

ISYT 1000: Intro to Info Sys & Tech

An overview of key ideas, principles, and theories related to information systems and technology. Develops a combination of technical and business skills.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring
2023, Fall 2022

ISYT 1100: Data and Information Mgmt

An overview of data and information management for professionals.

Credits 3.0

Last Offered

Summer 2025, Summer 2024,
Summer 2023, Summer 2022

ISYT 5000: Information Systems Capstone

Student driven project providing experience on the investigation or implementation of an Information System solution that includes management of a project through the full system lifecycle. A cumulative experience intended to complete a student's portfolio of expertise in Information System.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ISYT 5993: Info System&Tech Indp Study

Reading research and/or projects in a selected area of information systems & technology under the direction of a member of the staff. May be repeated for credit Director's Approval; CPS.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

Italian

ITA 111: Introductory Italian I

Groundwork in Italian, including oral proficiency, aural comprehension and reading for students with no prior knowledge of Italian.

Supplementary language laboratory work and oral drills.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ITA 112: Introductory Italian II

Groundwork in Italian, including oral proficiency, aural comprehension and reading for students. Supplementary language laboratory work and oral drills.

Credits 4.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ITA 119: Foundations in Italian I

A beginner's journey into the Italian language emphasizing reading and writing. This course cultivates basic communication abilities, setting the stage for ongoing Italian education.

Credits 3.0

ITA 1120: Foundations in Italian II

Progressing from Foundations in Italian I, this course enhances linguistic expertise in reading and writing. Students amplify conversational capacities, delve into complex grammar, and uncover regional distinctions. Aimed to fortify foundational skills, propelling students toward intermediate coursework.

Credits 3.0

ITA 1121: Intermediate Italian I

Review of grammar, composition, reading and conversation. Students should have completed ITA 1111 and 1112 or the equivalent.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Summer 2023

ITA 1122: Intermediate Italian II

Review of grammar, composition, reading and conversation. Students should have completed ITA 1121 or the equivalent.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Summer 2023, Spring 2023

ITA 1134: Growing Up Italian

History and cultures of modern Italy with attention to notions of youth and aging.

Credits 3.0

Last Offered

Fall 2025

ITA 1135: Italy Now

Contemporary Italian culture, politics, geography, and art, with emphasis on conversation skills.

Credits 3.0

ITA 1136: Italy by Vespa

An itinerary through the different cultures and histories of Italian regions.

Credits 3.0

Last Offered

Fall 2024, Fall 2023

ITA 1138: Advanced Grammar

Intensive practice of spoken and written Italian.

Credits 3.0

Prerequisites

ITA 1131 :D-

Prerequisite Courses

ITA 1131

Last Offered

Fall 2021, Fall 2020, Spring 2018, Fall 2014

ITA 1139: Modern Italy through Music

Study of Italian culture through the postwar to today through its song.

Credits 3.0

ITA 1140: Writing & Stylistics in Ita.

Intensive practice in written expression and textual analysis. Compositions are modeled on selected Italian texts.

Credits 3.0

Last Offered

Fall 2022, Spring 2020, Spring 2019, Fall 2016

ITA 1141: Italy in Business

An overview of contemporary Italy from the perspective of business (leading brands, productive sectors, marketing strategies, financial trends, law and politics).

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Fall 2021, Fall 2019, Fall 2017, Fall 2015

ITA 1143: Readings in Italian Literature

Readings in fiction, verse and drama representing various literary currents and personalities from the Renaissance to modern times.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Spring 2025, Spring 2022, Summer 2016, Spring 2016

ITA 2075: Visual History of Italy

An introduction to Italian history through its major works of art (from the middle ages to the present). Pre-reqs 1131-1999 or permission.

Credits 3.0

ITA 2220: Italian Lit and Culture I

Introduction to Italian literature and culture from the Middle Ages to the Renaissance. A required course for majors. Pre-requisite: ITA 1131 or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Fall 2022, Spring 2021

ITA 2221: Italian Lit. and Culture II

Introduction to Italian literature and culture from the Baroque to the 20th century. A required course for majors. Pre-requisite: ITA 1131 or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Fall 2018, Spring 2017

ITA 2222: Italians and America

Introduction to the cinematographic and literary images of Italians and Italian-Americans, from the discovery of the new world to the present.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Spring 2025, Fall 2018

ITA 2225: Italian Music

The interaction of musical performance and poetry (from opera to contemporary songwriting) and the role of music in Italian society. Pre-requisite: ITA 1131 or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Spring 2018

ITA 2300: Art of Love

Literature and art dealing with eroticism and relationships. Pre-reqs 1131-1999 or permission.

Credits 3.0

ITA 2310: Pinocchio and Italian History

The famous Italian puppet from Collodi's original masterpiece to contemporary reinventions in cinema, theatre, and design. Pre-reqs 1131 to 1999 or permission.

Credits 3.0

ITA 2314: Italian Poetry

A selection of masterpieces of Italian poetry from the origins to the present. Pre-requisite: ITA 1131 or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Fall 2019

ITA 2320: Animals, Monsters, Nature

Topics include sustainability, ecology, and animals. Pre-reqs 1131-1999 or permission.

Credits 3.0

ITA 2330: Calvino

An introduction to the literary works of 20th century giant Italian literature Italo Calvino. Pre-reqs 1131-1999 or permission.

Credits 3.0

Last Offered

Spring 2024

ITA 2340: Boccaccio: Sex Lies Silence

Seminar on Boccaccio's story collection Decameron, with emphases on eroticism, gender, censorship. Pre-reqs 1131-1999 or permission
Credits 3.0

Last Offered
Fall 2024

ITA 2350: Petrarch: World in Crisis

Seminar on Petrarch's Canzoniere, with attention to notions of personal and social crisis. Pre-reqs 1131-1999 or permission.
Credits 3.0

ITA 2360: Manzoni: Betrothed

A reading of Italy's most important work of prose, the 19th century novel I promessi sposi by Alessandro Manzoni. Pre-reqs 1131-1999 or permission.
Credits 3.0

ITA 2365: Italian Theatre

Seminar on the masterpieces of the Italian theatrical tradition (from opera to contemporary theatre). Pre-reqs 1130-1999 or permission.
Credits 3.0

Prerequisites
ITA 1131 or ITA 1134 or ITA 1136
Prerequisite Courses
ITA 1131
ITA 1134
ITA 1136

ITA 2368: Special Topics

Special topics. Pre-reqs 1131-1999 or permission
Credits 3.0

ITA 2370: History of Pop Music

Survey of Italian culture and history through its pop music in 20th and 21st c. Pre-reqs 1131-1999 or permission.
Credits 3.0

ITA 2380: Art of Storytelling

An anthology of Italian short stories with a peculiar attention on storytelling techniques. Pre-req 1131-1999 or permission.
Credits 3.0

Prerequisites
ITA 1131 or ITA 1134 or ITA 1136
Prerequisite Courses
ITA 1131
ITA 1134
ITA 1136
Last Offered
Fall 2025

ITA 2413: Italy and Beauty

An exploration of different forms of Italian beauty in architecture, visual arts, design, fashion, music, and literary imagination.
Credits 3.0

ITA 2490: Italy in Business

An overview of contemporary Italy from the perspective of business (leading brands, productive sectors, marketing strategies, financial trends, law and politics). Pre-reqs 1131-1999 or permission.
Credits 3.0

Last Offered
Fall 2023

ITA 2993: Italian Internship Project

Students may receive up to 3 credits for an internship experience in an Italian business, non-profit, government agency, museum, or an Italian cultural association. Approval of the Italian Coordinator is required. Pre-requisite: ITA 1131 or authorization of instructor.
Credits 3.0

Prerequisites
ITA 1131
Prerequisite Courses
ITA 1131

ITA 3064: Performing Comedy

Reading and staging of a theatrical piece in Italian. The course includes grammar review, critical interpretation and production of the text. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.
Credits 3.0

Prerequisites
ITA 1131
Prerequisite Courses
ITA 1131

ITA 3074: Intro to Italian Cinema

A critical introduction to the masterpieces of the Italian cinema from DeSica and Fellini to Tornatore and Sorrentino. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Spring 2023, Spring 2021

ITA 3100: Teaching Practicum

The practicum gives qualified students the opportunity to work as teaching assistants in level appropriate courses under the supervision of a faculty member. Tasks will vary based on level and course, but may include working with students on writing, leading activities or discussion, and helping students with homework, language learning, or research. By permission.

Credits 3.0

Last Offered

Fall 2024, Spring 2024, Fall 2023

ITA 3285: Italy and Europe

The contribution and role of Italy in the European politics, economy, and culture, from its making as a nation to the present. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

ITA 3324: Losers, Rejects, Outcasts

Seminar on diversity, gender, race in literature. Pre-reqs 1131-1999 or permission.

Credits 3.0

Last Offered

Spring 2024

ITA 3366: Italian Opera

Introduction to Italian opera from Monteverdi to Verdi and Puccini. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

ITA 3412: Special Topics

Advanced study of topics of special interest in Italian literary and/or cultural studies. May be repeated for credit if topic changes. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Spring 2025, Spring 2019, Spring 2017, Summer 2016

ITA 3450: Dante's Comedy (in English)

Seminar on Dante's Comedy, a poem about faith, personhood, and community. Pre-reqs 1131-1999 or permission.

Credits 3.0

Last Offered

Fall 2023

ITA 3455: Dante's Divine Comedy

Selected readings in Italian from Dante's masterpiece. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

ITA 3470: Voyagers, Explorers, Immigrant

A survey of Italian literature from the early modern age through the present focusing on the theme of travel and exploration. Pre-reqs 1131-1999 or permission.

Credits 3.0

Last Offered

Spring 2024

ITA 3480: Ecstasy Depression Healing

Seminar about spirituality, mental health, meditation, and drugs in Italy. Pre-reqs 1131-1999 or permission.

Credits 3.0

Last Offered

Fall 2024

ITA 3545: Petrarca and Boccaccio

The major works of Francesco Petrarca and Giovanni Boccaccio. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

ITA 3625: The Italian Renaissance

Writers, artists, intellectuals of the Humanistic age and of the Renaissance. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Summer 2014

ITA 3700: Italy and Design (in English)

The cultural and entrepreneurial language of Italian design in the 20th Century. Pre-reqs 1131-1999 or permission.

Credits 3.0

ITA 3710: ITA Futurism & the Euro Avantg

A multi-disciplinary itinerary on the Italian 20th century avantgarde of Futurism (in literature, painting, theatre, and design). Pre-reqs 1131-1999 or permission.

Credits 3.0

ITA 3725: The Italian Baroque

An introduction to the poetics and the main artists of the Italian Baroque. Caravaggio, Bernini, Galileo, Marino, Vico, commedia dell'arte, opera. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

ITA 3824: Classics and Romantics

An overview of Italy's culture in the 18th and 19th centuries: neo-Classicism, Romanticism (Foscolo, Leopardi, Manzoni) and Risorgimento. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

ITA 3925: Italian Modernism

Literature and art of the 20th century. Futurism, avant-gardes, Pirandello, De Chirico, Calvino and postmodernism. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

ITA 3970: Research Seminar

Concentrated study on one aspect of Italian literature chosen by the instructor. Immersion in primary and secondary materials and introduction to principles and techniques of literary research and bibliography ultimately leading to the writing of the research paper. Required for majors. Open to all advanced students. Pre-requisite: Any ITA course at the 2000 level or authorization from instructor.

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Spring 2016, Spring 2014, Spring 2013

ITA 3971: Directed Research in Italian

Directed semester-long research project that satisfies the College research requirement, taken in conjunction with another upper-level ITA content course. Pre-requisite: ITA 2220, ITA 2221 or approval from the ITA coordinator.

Credits 1.0

Prerequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

ITA 5900: Independent Study

Credits 3.0

Prerequisites

ITA 1131

Prerequisite Courses

ITA 1131

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

RLL 3413: Topics on Italy and Beauty

Advanced study of expressions of beauty as manifested in Italian Culture Literature, Art, Philosophy, Design, and Commerce. May be repeated for credit if topic changes. Taught in English

Credits 3.0

Last Offered

Spring 2021, Spring 2019, Spring 2018, Spring 2017

Latin American Studies

LAS 3412: Special Topics

Study of topics of special interest in Latin American Studies. Topics to be arranged.

Credits 3.0

Last Offered

Summer 2024, Summer 2023, Summer 2022, Fall 2019

LAS 5000: Internship

Global, cross-cultural experience. Six weeks of summer practicum at a major economic, political, or cultural institution in Chile.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Fall 2023

LAS 6000: Independent Study & Research

Independent research on a topic relevant to Latin America. Cross-disciplinary. Required integration of theory and data.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Fall 2023

LAT 1119: Foundations in Latin I

A beginner's journey into the Latin language emphasizing reading and writing. This course cultivates basic communication abilities, setting the stage for ongoing Latin education.

Credits 3.0

LAT 1120: Foundations in Latin II

Progressing from Foundations in Latin I, this course enhances linguistic expertise in reading and writing. Students amplify conversational capacities and delve into complex grammar. Aimed to fortify foundational skills, propelling students toward intermediate coursework.

Credits 3.0

Leadership

LDR 2000: Foundations of Leadership

Introduction to the concepts of and approaches to leadership. Historical and contemporary leadership theories.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Spring 2023

LDR 2010: Strategic Planning for Leaders

The strategic planning process in organizations. Mission, values, goals, alignment and accountability in the development and execution of a strategic plan.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

LDR 2020: Leadership & Community

Leadership in the public sector. A study of leaders in politics, civil rights, academics/research and corporations. Evaluation of effective/ineffective leadership styles.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

LDR 2030: Leading with a Digital Mindset

Analysis of the implications of technology on leadership. The strategic role of technology in organizations. Define and analyze attitudes and behaviors of a "digital mindset".

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

LDR 2040: Ethics & Leadership

The nature of ethical leadership. How the leader's values and beliefs affect decision making. The concepts of organizational and social responsibility.

Credits 3.0

Last Offered

Fall 2023, Fall 2022, Fall 2021,
Fall 2020

LDR 2050: History of Leadership

This course evaluates the history of leadership and leaders from both the theoretical and practical perspective. Historical aspects examined will include war, peace, severe economic conditions, technology advances, societal changes, and the evolution of organizations. Students will develop a leadership philosophy and approach, examine this approach and its place in the grander context of the history of leadership.

Credits 3.0

Prerequisites

Last Offered

Fall 2024, Fall 2023, Fall 2022,
Fall 2021

LDR 2060: Global Strategic Leadership

Global leadership dynamics and strategy. Cross-cultural awareness; ethics and social responsibility and international and global contexts.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

LDR 2070: Strategy Driven Talent Mgmt

Develop a personal talent management philosophy and plan. Improve ability to reflectively lead talent management efforts. Develop the capacity to analyze and assess talent management practices. Sharpen decision making and problem solving techniques. Research, develop and present a talent management project.

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

LDR 2080: Leadership Communication

Explore strategies and tactics for engaging and inspiring your team, clients, and partners. Includes topics such as communicating your vision, social media strategy, storytelling, and crisis communication.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

LDR 3400: Leadership Internship Practicum

Approved semester project involving supervised practical application of previously learned knowledge. Supervision by faculty member and staff. Permission of Dean required

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2018

LDR 5000: Leadership Capstone Course

Utilizes integration and analysis of leadership principles. Case studies and team-based project covering major topics in the leadership curriculum.

Credits 3.0

Prerequisites

LDR 2000

Prerequisite Courses

LDR 2000

Last Offered

Spring 2023, Spring 2022, Fall 2020, Spring 2020

LDR 5940: Leadership Topics

Presentation of selected topics in leadership. May be repeated for credit if topics are different. Pre-requisites may be imposed depending on the topics.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Fall 2024, Fall 2023

LDR 5950: Special Topics in Leadership

Intensive workshops or seminars in selected areas of leadership that focus on professional development and applied knowledge. May be repeated for credit if topics are different. Pre-requisites may be imposed depending on the topics.

Credits 1.0

Last Offered

Summer 2024, Summer 2023, Spring 2021, Summer 2017

LDR 5993: Leadership Topics

Reading, research and/or projects in a selected area of leadership under the direction of a member of the staff. May be repeated for credit.

Credits 3.0

Last Offered

Summer 2020, Summer 2019, Summer 2018, Spring 2018

Liberal Arts

LA 1903: Internship Elective

Permission of Program Director required. Rising sophomore standing (minimum 30 credits completed) with a 3.0 overall GPA for fall or spring internship; 2.7 overall GPA for summer internship.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

LA 1904: Global Internship

Global internship course. Must secure approval of Office for Undergraduate Students (OUS) Internship Office.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

LA 1906: Internship Elective

Permission of Program Director. Rising sophomore standing (minimum 30 credits completed) with a 3.0 overall GPA for fall or spring internship; 2.7 overall GPA for summer internship

Credits 6.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

LA 1909: Internship Elective

Permission of Program Director. Rising sophomore standing (minimum 30 credits completed) with a 3.0 overall GPA for fall or spring internship. 2.7 overall GPA for summer internship.

Credits 9.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

LA 2993: Internship

Credits may be applied to requirements for the major in Liberal Arts in the required Liberal Arts elective slots. Permission of Program Director. Rising sophomore standing (minimum 30 credits completed) with a 3.0 overall GPA for fall or spring internship; 2.7 overall GPA for summer internship.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

LA 2996: Internship

Credits may be applied to requirements for the major in Liberal Arts in the required Liberal Arts elective slots. Permission of Program director. Rising sophomore standing (minimum 30 credits completed).

Credits 6.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

Management

MGT 2155: Organizational Behavior

Human behavior in organizations; research and theoretical writing on organizational behavior; case discussions. Junior or senior standing.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020

VSB 2009

VSB 2010

VSB 2030

VSB 2040

MGT 1102

Last Offered

Spring 2025, Fall 2023, Fall 2022, Spring 2022

MGT 2206: Management Practice

Application of management theory to problem identification and solutions. Motivation, leadership, discipline and shaping organizational cultures. Junior or senior standing.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Fall 2025, Fall 2024, Spring 2021, Spring 2020

MGT 2208: International Topics

Examination of a specific international management topic, which may vary from semester to semester, as reflected in the course title (e.g., Internatl Top: Mgt in Europe). Can be used toward the elective course requirement for the VSB IB Co-Major and IB Minor and as an management elective. Junior or senior standing.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Spring 2024, Fall 2020, Fall 2019, Summer 2019

MGT 2350: Global Business Management

An elective topic dealing with the cross-cultural aspects of management. Student cases will address how politics, religion, social customs, and history shape and influence management practices. Junior or senior standing.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

MGT 2352: Business in Emerging Markets

Focuses on management and strategy in ""big emerging markets

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Fall 2019, Fall 2017, Fall 2016, Fall 2015

MGT 2360: Global Leadership

Help students gain insights about the nature of culture, the nature of leadership, and their intersection. Provide students with an increased understanding of, (1) existing theory and research on different leadership and culture topics and, (2) themselves with respect to leadership development and cultural intelligence.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MGT 2370: Global Business Ethics

Interactive study of business ethics within a global economy. Alternative ethical theories across and within different cultures are presented. Both Western and non-Western traditions are explored to develop a framework useful to address ethical challenges as they arise globally.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MGT 3070: Solving Complex Business Problems

Explores solving complex business problems. Focus is on developing tools, techniques, and methodologies used in the consulting industry.

Credits 3.0

Prerequisites

VSB 2009 and VSB 2020

Prerequisite Courses

VSB 2009
VSB 2020

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MGT 3080: Management Consulting Practicum

Focuses on application of consulting practices through a hands-on, practical consulting experience working with an organization/live client.

Credits 3.0

Prerequisites

MGT 3070

Prerequisite Courses

MGT 3070

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MGT 3170: Data Mining and AI

Use of data-mining and AI-techniques for analyzing large datasets to reveal hidden patterns for improved managerial decision-making. Students learn how advanced AI-tools, including machine-learning algorithms, are applied across business domains (marketing, finance, etc.) to develop predictive models and actionable insights.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2008 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2008
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MGT 3300: Business Analytics Internship

Employment with approved business firm where business analytics experience is gained through appropriate training, instruction, and supervision. Department chair approval required.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

MGT 3310: Management Internship

Employment with approved business firms where various meaningful assignments are performed with appropriate training, instruction, and supervision. Department chair approval required.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

MGT 3320: Ind Study - Management

Study with faculty member's guidance and approval in area of special interest to student. Department chair approval required.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MGT 3340: Ind Study-Internatl Busn

Study with faculty member's guidance and approval in area of special interest to student. Department chair approval required.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MGT 3350: Ind Study Small Business

This independent study will help students understand the environment and significance of small business in the economy. Problems in starting a small business and factors that contribute to success or failures. Department chair approval required.

Credits 3.0

Prerequisites

(VSB 2020 and VSB 2009 :Y or VSB 2010 :Y or VSB 2030 :Y and VSB 2040 :Y) or MGT 1102

Prerequisite Courses

VSB 2020
VSB 2009
VSB 2010
VSB 2030
VSB 2040
MGT 1102

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MGT 3600: Sports Analytics

Integration of analytics into decision making for sports organizations; use data to perform team and player evaluations, analyze in-game decisions, automate scouting reports, and other analysis; R programming utilized.

Credits 3.0

Prerequisites

VSB 2008 and VSB 2020

Prerequisite Courses

VSB 2008
VSB 2020

Last Offered

Fall 2025, Spring 2025, Spring 2024, Fall 2023

MGT 4170: Decision Analytics & AI

Comprehensive application of data mining, decision modeling, and generative AI in business analytics, incorporating data management, programming, and advanced tools. Builds on foundational skills to model and solve complex business problems across functions using Excel, Python, and AI.

Credits 3.0

Prerequisites

VSU 2008

Prerequisite Courses

VSU 2008

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Management Information Systems

MIS 2020: Prog for Adaptive Prob Solving

Explores a problem solving methodology that employs programming. Emphasis upon identifying capabilities and limitations of the programming approach. Learn skills and techniques to define business problems, design solution processes, develop program specifications, code, debug, and document and defend solutions.

Credits 3.0

Prerequisites

VSU 2006 and VSU 2020 :Y and (VSU 2009 :Y or VSU 2010 or VSU 2030 :Y and VSU 2040 :Y)

Prerequisite Courses

VSU 2006

VSU 2020

VSU 2009

VSU 2010

VSU 2030

VSU 2040

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MIS 2030: Database Management

Theoretic and practical issues related to the management of a data base in a business environment including: the role of databases and database applications in contemporary organizations; data modeling using entity-relationship models; fundamentals of the relational data model and its implementation with SQL; characteristics of distributed databases and Client/Server data base technologies.

Credits 3.0

Prerequisites

VSU 2006 and VSU 2020 :Y and (VSU 2009 :Y or VSU 2010 or VSU 2030 :Y and VSU 2040 :Y)

Prerequisite Courses

VSU 2006

VSU 2020

VSU 2009

VSU 2010

VSU 2030

VSU 2040

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MIS 2040: Systems Analysis & Design

Concepts, tools and techniques in the analysis and design of computer-based information systems; major issues and decision making in each phase of the development life cycle, application of creativity and innovation to the practice of systems analysis and design, skills necessary for modeling the data and processing requirements of an information system using an automated development tool, a systems development team project approach.

Credits 3.0

Prerequisites

VSb 2006 and VSb 2020 :Y and (VSb 2009 :Y or VSb 2010 or VSb 2030 :Y and VSb 2040 :Y)

Prerequisite Courses

VSb 2006
VSb 2020
VSb 2009
VSb 2010
VSb 2030
VSb 2040

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MIS 3010: Business Data Communications

Introduction of the fundamental concepts and terminology of data communications and networking with respect to technical and managerial aspects including: the fundamentals of telecommunication media and services, topologies and protocols in local area networks (LAN) and wide area networks (WAN), the Internet technologies (IP addressing and subnetting), Intranet/extranet applications (VPN and other encryption technologies), new trends and enabling technologies in data communications industry.

Credits 3.0

Prerequisites

MIS 2020 or MIS 2030 or MIS 2040

Prerequisite Courses

MIS 2020
MIS 2030
MIS 2040

Last Offered

Fall 2009, Fall 2008, Summer 2008, Spring 2006

MIS 3020: Enterprise Systems & Appl

Management and development enterprise computing concepts and applications in today's organization; integration of information systems in real time for support of internal functions; integration of different E-Commerce front ends with the Enterprise Resource Planning (ERP) system for extension of their functionality.

Credits 3.0

Prerequisites

VSb 2006 and VSb 2020 and (VSb 2009 or VSb 2010 or VSb 2030 and VSb 2040)

Prerequisite Courses

VSb 2006
VSb 2020
VSb 2009
VSb 2010
VSb 2030
VSb 2040

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MIS 3030: Enabling Tech in E-Business

Introduces theory, techniques, and tools needed to build successful E-business applications. It includes a survey of business web applications and their underlining technologies. Students learn to use client-side and server-side techniques, such as JavaScript, CGI, and Active Server Page, to building web applications. As a part of the course, students will be required to construct a functional database-driven web application by utilizing the technologies covered in class.

Credits 3.0

Prerequisites

MIS 2020 or MIS 2030 or MIS 2040

Prerequisite Courses

MIS 2020

MIS 2030

MIS 2040

Last Offered

Spring 2020, Fall 2019, Spring 2019, Fall 2018

MIS 3040: MIS Seminar

Examination of the tactical, operational and strategic relationships between information technology and business models and processes and the impact on business effectiveness, MIS organization and MIS careers; considerations of integration of technology with business for a more efficient and profitable organization; connection of the pieces and processes of MIS such as communication, data application, system analysis and design, decision science.

Credits 3.0

Prerequisites

MIS 2020 or MIS 2030 or MIS 2040

Prerequisite Courses

MIS 2020

MIS 2030

MIS 2040

Last Offered

Spring 2007, Spring 2006, Spring 2005, Fall 2004

MIS 3050: CRM and Data Analytics

Fundamental issues associated with Customer Relationship Management (CRM) and Data Analytics, theoretical and practical, such as designing and building a data warehouse, building and populating info-cubes, report generation with SAP BW, data mining, business intelligence technologies, and extension of CRM to the Internet.

Credits 3.0

Prerequisites

VSU 2006 and VSU 2020 and (VSU 2009 or VSU 2010 or VSU 2030 and VSU 2040)

Prerequisite Courses

VSU 2006

VSU 2020

VSU 2009

VSU 2010

VSU 2030

VSU 2040

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MIS 3060: Bus Intelligence and Perf Mgmt

Examines concepts, processes, and tools related to business intelligence and performance management; learn systematic approaches for identifying business metrics and key performance indicators (KPI); apply data visualization techniques to develop interactive business intelligence applications that transform data into information and insights.

Credits 3.0

Prerequisites

VSU 2006 and VSU 2020 and (VSU 2009 or VSU 2010 or VSU 2030 and VSU 2040)

Prerequisite Courses

VSU 2006
VSU 2020
VSU 2009
VSU 2010
VSU 2030
VSU 2040

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MIS 3070: Emerging Business Technologies

This course focuses on the emerging and disruptive business technologies - like augmented reality, intelligent systems, Internet-of-Things and location-based services - likely to impact current and future business models and processes the most.

Credits 3.0

Prerequisites

VSU 2006

Prerequisite Courses

VSU 2006

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MIS 3080: Applied Machine Learning

Covers use of machine learning algorithms in business decision making and ethical challenges. Involves data preparation & pre-processing, coding and implementation of ML models including regression, forests, nearest neighbor dimensionality reduction along with deeper learning models such as neural networks.

Credits 3.0

Prerequisites

VSU 2006 and MIS 2020

Prerequisite Courses

VSU 2006
MIS 2020

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MIS 3090: Special Topics in MIS

Study of selected topics in MIS. Topics to be announced each semester when the special topics course is offered.

Credits 3.0

Last Offered

Spring 2021, Spring 2018, Spring 2017, Fall 2016

MIS 3300: AI & Machine Learning for Bus

This course will examine how AI/ML applications in areas such as natural language processing, expert systems, deep learning, vision, speech, planning, and robotics, among others will impact business functions. Will also cover predominant AI/ML platforms and issues surrounding "ethical AI".

Credits 3.0

Prerequisites

VSU 2006

Prerequisite Courses

VSU 2006

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MIS 3310: MIS Internship

Employment with approved business firms where various meaningful assignments are performed with appropriate training, instruction, and supervision.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

MIS 3331: MIS Independent Study

Study with faculty member's guidance in area of special interest to student.

Credits 3.0

Last Offered

Fall 2025, Spring 2025,
Summer 2024, Spring 2024

MIS 3500: MIS Co-Op

Full-time employment with an approved firm in the area of MIS where experience is gained through appropriate training, instruction, and supervision. Course does not fulfill the requirements of the major. Prerequisite: MIS major with junior status; minimum gpa requirements will vary; approval of DIT Department Chair and Director of Center for Student Advising and Professional Development required.

Credits 6.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Marketing

MKT 1137: Principles of Marketing

Description and evaluation of the ways in which goods and services are developed to meet customer and consumer needs and distributed for domestic and international consumption; economic, government, social, and other environmental forces in relation to the marketing function. **Not open to VSB students; 5 seats for CPS students.

Credits 3.0

Prerequisites

ECO 1001 or SBI 2005

Prerequisite Courses

ECO 1001

SBI 2005

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MKT 2120: Buyer Behavior

Development and attainment of organizational goals within the framework of human behavior and its relationship to marketing. Theory from psychology, sociology, and social psychology, with emphasis on application to marketing problems in consumer and industrial environments.

Credits 3.0

Prerequisites

VSB 2020 or MKT 1137 or SBI 3006 or SBI 3040

Prerequisite Courses

VSB 2020

MKT 1137

SBI 3006

SBI 3040

Last Offered

Spring 2025, Fall 2023, Spring 2023, Fall 2022

MKT 2197: Marketing Research

The principal internal and external procedures used in collecting, processing, and evaluating both quantitative and qualitative data; research design; management of information for decision making.

Credits 3.0

Prerequisites

(VSB 2020 or MKT 1137 or SBI 3006 or SBI 3040) and (MAT 1235 :Y or MAT 1430 :Y or STAT 1235 :Y or STAT 1430 :Y)

Prerequisite Courses

VSB 2020

MKT 1137

SBI 3006

SBI 3040

MAT 1235

MAT 1430

STAT 1235

STAT 1430

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MKT 2224: Professional Selling

Stresses skills and professionalism required in intensely competitive selling environments in global markets. This courses concentrates on complex consultative selling processes required in business-to-business relationships.

Credits 3.0

Prerequisites

VSB 2020 or MKT 1137 or SBI 3006 or SBI 3040

Prerequisite Courses

VSB 2020

MKT 1137

SBI 3006

SBI 3040

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2022

MKT 2225: Strategic Account Management

Policies and procedures for managing a business development organization; the role and characteristics of the business development function; techniques for selecting, training, supervising, and evaluating business development personnel including ethical and legal considerations.

Credits 3.0

Prerequisites

VSB 2020 or MKT 1137 or SBI 3006 or SBI 3040 and MKT 2224

Prerequisite Courses

VSB 2020
MKT 1137
SBI 3006
SBI 3040
MKT 2224

Last Offered

Spring 2025, Fall 2023, Spring 2023, Spring 2022

MKT 2240: Marketing Analytics

Covers analytics skills necessary for marketing decision making; adds experience with SAS JMP, Google Analytics and Adwords (certifications earned in course), advanced Excel functionality, and other analytical techniques to reflect marketplace changes.

Maximum of 5 VSB minors.

Credits 3.0

Prerequisites

(VSB 2020 or SBI 3006 or SBI 3040) and VSB 2006 and VSB 2008

Prerequisite Courses

VSB 2020
SBI 3006
SBI 3040
VSB 2006
VSB 2008

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MKT 2270: Brand Management

Examines the importance of branding to business, consumers, and society and how brand equity is cultivated to create long-term profit for a firm. Also emphasizes techniques for the measurement of brand equity.

Credits 3.0

Prerequisites

VSB 2020 or MKT 1137 or SBI 3006 or SBI 3040

Prerequisite Courses

VSB 2020
MKT 1137
SBI 3006
SBI 3040

Last Offered

Spring 2025, Spring 2024

MKT 2280: Global Marketing

The world market and its implications for global marketing; the relationships of imports and exports to policies; impacts of major national cultures on foreign marketing communications and business development programs will be researched through multiple sources.

Credits 3.0

Prerequisites

VSB 2020 or MKT 1137 or SBI 3006 or SBI 3040

Prerequisite Courses

VSB 2020
MKT 1137
SBI 3006
SBI 3040

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MKT 2285: Social Media Marketing

Understand social media interactions, examine the various social media channels available to marketers, learn how to build social marketing strategies, and practice how to track their effectiveness.

Credits 3.0

Prerequisites

VSB 2020 or MKT 1137 or SBI 3006 or SBI 3040

Prerequisite Courses

VSB 2020
MKT 1137
SBI 3006
SBI 3040

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MKT 2290: Digital Marketing

Covers digital marketing skills: search engine optimization (SEO), search engine marketing (SEM), e-mail, Social Media, and Mobile marketing. Uses on-line simulation to develop SEM skills.

Credits 3.0

Prerequisites

VSU 2020 or MKT 1137 or SBI 3006 or SBI 3040

Prerequisite Courses

VSU 2020

MKT 1137

SBI 3006

SBI 3040

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MKT 2349: Special Topics in Marketing

Contemporary issues and topics which affect a firm's marketing strategies. Maximum of 5 VSU minors.

Credits 3.0

Prerequisites

VSU 2020 or MKT 1137 or SBI 3006 or SBI 3040

Prerequisite Courses

VSU 2020

MKT 1137

SBI 3006

SBI 3040

Last Offered

Spring 2023, Spring 2022, Fall 2020, Fall 2019

MKT 2375: Marketing Management

Analytic procedures to understand and integrate effective policies applied to demand, product research, channel selection and development, promotion, and pricing on both domestic and international levels; concentration on decision making. No VSU Minors allowed.

Credits 3.0

Prerequisites

VSU 2008 and VSU 2020 and (VSU 3006 :Y or VSU 2014 :Y)

Prerequisite Courses

VSU 2008

VSU 2020

VSU 3006

VSU 2014

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MKT 3350: Independent Study - Marketing

Independent study under faculty guidance in an area of student's special interest.

Credits 3.0

Prerequisites

VSU 2008 and (VSU 3006 or VSU 2014 :Y) and VSU 2020

Prerequisite Courses

VSU 2008

VSU 3006

VSU 2014

VSU 2020

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

MKT 3450: Internship Marketing

Employment with approved firm where varied Marketing experience is gained with appropriate training, instruction and supervision. Students cannot self-enroll in this class. Permission of O'Donnell Center for Professional Development Required.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

MKT 3470: Marketing Co-Op

Full-time employment with an approved firm in the area of marketing, where experience is gained through appropriate training, instruction, and supervision. Does not fulfill requirement for major. Students cannot self-enroll in this class. Permission of O'Donnell Center for Professional Development Required.

Credits 6.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Mathematics and Statistics

MAT 1000: Math and Stat Communities

Understanding the role of creative thinking, problem solving, and collaboration in mathematics and statistics; exploration of research and careers in the mathematical and statistical sciences; building community with fellow mathematics and statistics majors.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 1220: Discrete Math Social Sci

Discrete math for Liberal Arts students: graphs (circuits, trees, directed graphs), discrete growth, symmetry, and select topics from planning and scheduling, linear programming, tiling, voting methods, and unit conversions. Not open to students who have completed MAT 1505.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MAT 1280: Mathematics of Fairness

Examining fairness in our personal lives and in society: Voting systems and power indices, strategic political positioning spatial models, fair division, congressional district apportionment, game theory, the GINI index of economic inequality, gerrymandering.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

MAT 1290: Topics in Core Mathematics

Course in an area of pure or applied mathematics or statistics. May be repeated for credit if areas of topical focus are different. Designed specifically to satisfy the core requirement in mathematics and statistics, for students in the humanities and social sciences.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 1312: Biocalculus

Discrete and continuous dynamics of biological systems: discrete dynamical systems, sequences, functions, discrete and continuous limits, the derivative, the integral, methods and applications of differentiation and integration, Taylor polynomials, modeling with differential equations, Euler's method, applications to Biology.

Credits 4.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 1314: Modeling for the Life Sciences

Mathematical and statistical modeling in the Life Sciences. Topics selected from: dynamical systems, diffusion, Markov, Bayesian, connectionist, and information theory models, applied to epidemiology, ecology, neuroscience and neuron signaling, cell and molecular biology, genetics, physiology, psychology, and other areas. Pre-requisites MAT 1312 or Equivalent

Credits 3.0

Prerequisites

MAT 1310 or MAT 1312 or MAT 1320 or MAT 1400 or MAT 1500

Prerequisite Courses

MAT 1310

MAT 1312

MAT 1320

MAT 1400

MAT 1500

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MAT 1320: Calculus I for Liberal Arts

Calculus for Liberal Arts students: polynomial, rational and transcendental functions, the derivative, numerical and graphical introduction to integration.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 1400: Business Calculus

Functions, limits, and basic definitions of differential and integral calculus. Techniques of differentiation and integration. The Fundamental Theorem of Calculus. Applications in various areas of business and economics.

Credits 4.0

Last Offered

Fall 2022, Spring 2022, Fall 2021, Spring 2021

MAT 1500: Calculus I

Limits, transcendental functions (logarithms, exponential functions, inverse trigonometric functions), differentiation (definition, tangent lines, rates of change, techniques, implicit differentiation, related rates), applications of differentiation (graphing, optimization), indeterminate forms and L'Hopital's Rule. Use of a computer algebra system, eg. MAPLE.

Credits 4.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

MAT 1505: Calculus II

Integration (indefinite, definite), applications of integration (area, volume, applications to physics and economics, etc.), methods of integration, approximate integration (trapezoidal and Simpson's rules), improper integrals, differential equations, infinite sequences and series. Continued use of a computer algebra system.

Credits 4.0

Prerequisites

MAT 1312 or MAT 1320 or MAT 1400 or MAT 1500

Prerequisite Courses

MAT 1312
MAT 1320
MAT 1400
MAT 1500

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

MAT 1903: Internship Elective

Internship Elective

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MAT 1906: Internship Elective

Internship Elective

Credits 6.0

Last Offered

Summer 2024, Summer 2023, Summer 2022, Summer 2021

MAT 2400: Linear Algebra for Computing

Vectors, matrices, and matrix algebra; systems of linear equations; matrix inverses; least squares problems; eigenvalues and eigenvectors; using Python for computational linear algebra; applications from areas such as data science, computer graphics, graph algorithms, and web search.

Credits 4.0

Prerequisites

MAT 1500

Prerequisite Courses

MAT 1500

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MAT 2500: Calculus III

Parametric equations; polar, cylindrical, and spherical coordinates; vectors and the geometry of space; vector functions (derivatives, integrals, curvature, etc.); partial derivatives; optimization; multiple integration and its applications; vector calculus (line integrals, vector analysis). Continued use of a computer algebra system.

Credits 4.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

MAT 2600: Mathematical Reasoning & Proof

Mathematical proofs: direct, indirect, induction. Logic, set theory, relations, functions. Optional topics from algebra, number theory, combinatorics, and analysis.

Credits 3.0

Prerequisites

MAT 1500 :D-

Prerequisite Courses

MAT 1500

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 2705: Diff Equation with Linear Alg

First order and linear second order differential equations, matrices and linear equation systems, eigenvalues and eigenvectors, and linear systems of differential equations.

Credits 4.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 2993: Internship

Internship

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

MAT 2996: Internship

Internship

Credits 6.0

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

MAT 3001: Topics in Mathematics & Stats

Lecture course in an area of mathematics or statistics. May be repeated for credit if topics are different.

Credits 1.0

MAT 3011: Problem Solving Seminar

Explore techniques for solving mathematical problems, including problems typical of the Putman Mathematical Competition. Students solve and present solutions to problems posed.

Credits 1.0

Prerequisites

MAT 1500

Prerequisite Courses

MAT 1500

Last Offered

Fall 2025, Fall 2023

MAT 3100: Applied Linear Algebra

Vectors, matrices, transpose and inverse of a matrix, systems of linear equations, the four fundamental subspaces, eigenvalues and eigenvectors, symmetric matrices, matrix factorizations, applications such as information retrieval, ranking web pages, graphs and networks, least squares, and data compression.

Credits 3.0

Prerequisites

MAT 1312 or MAT 1320 or MAT 1400 or MAT 1500

Prerequisite Courses

MAT 1312

MAT 1320

MAT 1400

MAT 1500

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 3300: Advanced Calculus

Real numbers, sequences, convergence, supremum and infimum, completeness of the reals, continuous functions, Intermediate Value Theorem, differentiable functions, Mean Value Theorem, Riemann integral, Fundamental Theorem of Calculus, Taylor's Theorem.

Credits 3.0

Prerequisites

MAT 2500 :D- and (MAT 2600 :D- or HON 4151 :D-)

Prerequisite Courses

MAT 2500

MAT 2600

HON 4151

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 3400: Linear Algebra

Theory of vector spaces, linear transformations, basis, and dimension. Selected topics from orthogonal transformations, least squares, eigenvalues and eigenvectors, similarity, diagonalization, matrix decompositions, infinite dimensional transformations.

Credits 3.0

Prerequisites

MAT 2600 and (MAT 2400 or MAT 2705 or MAT 3100)

Prerequisite Courses

MAT 2600

MAT 2400

MAT 2705

MAT 3100

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 3500: Modern Algebra I

Topics selected from groups and subgroups, cyclic groups, permutation groups, isomorphisms, direct products, cosets and Lagrange's Theorem, normal subgroups and factor groups, group homomorphisms, the Fundamental Theorem of Finite Abelian Groups, rings, fields.

Credits 3.0

Prerequisites

MAT 2600 :D- and MAT 2705 :D-

Prerequisite Courses

MAT 2600

MAT 2705

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 3930: History of Mathematics

Development of mathematics from ancient times to the birth of calculus in the seventeenth century.

Credits 3.0

Prerequisites

MAT 1505 :D- and MAT 2600 :D-

Prerequisite Courses

MAT 1505

MAT 2600

Last Offered

Fall 2025, Fall 2023, Fall 2021, Fall 2019

MAT 4110: Combinatorics

Induction, permutations and combinations, general counting methods, generating functions, recurrence relations, principle of inclusion-exclusion, graph theory, trees, planarity, crossing numbers, Hamiltonian cycles, Eulerian tours.

Credits 3.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Last Offered

Spring 2024, Fall 2022, Spring 2020, Fall 2017

MAT 4270: Numerical Analysis

Numerical and computational aspects of root-finding methods, interpolation and polynomial approximation, numerical differentiation and integration, approximation theory.

Credits 3.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Last Offered

Spring 2024, Spring 2021, Spring 2019, Fall 2015

MAT 4410: Math Modeling

Model formulation, the modeling process, graphs as models, examples from the physical and social sciences, parameter estimation, experimental modeling, dimensional analysis, modeling discrete and continuous dynamic behavior, implementation.

Credits 3.0

Prerequisites

MAT 2705 :D-

Prerequisite Courses

MAT 2705

Last Offered

Spring 2025, Spring 1997

MAT 4500: Mathematics of Games

Study of popular games, toys, and puzzles using recursions, counting techniques, graph theory, group theory, probability, Markov chains, and other mathematical tools.

Credits 3.0

Prerequisites

MAT 2600 and (STAT 1230 or STAT 1250 or STAT 1313 or STAT 1430 or STAT 4310)

Prerequisite Courses

MAT 2600
STAT 1230
STAT 1250
STAT 1313
STAT 1430
STAT 4310

Last Offered

Fall 2024, Spring 2022

MAT 4550: Math of Financial Derivatives

Basic tools of financial markets; options; asset price random walks; estimation of parameters; arbitrage put-call parity; Black-Scholes Model; implied volatility; portfolio-optimization; hedging.

Credits 3.0

Prerequisites

MAT 1505

Prerequisite Courses

MAT 1505

Last Offered

Fall 2024, Fall 2023, Spring 2023, Fall 2022

MAT 4600: Deterministic Oper Res

Deterministic methods: mathematical optimization, linear programming, formulation and solution techniques, duality, integer linear programming, transportation problem, assignment problem, network flows, dynamic programming.

Credits 3.0

Prerequisites

MAT 2500 :D- and (MAT 2705 or MAT 3100 or MAT 3400)

Prerequisite Courses

MAT 2500
MAT 2705
MAT 3100
MAT 3400

Last Offered

Spring 2024, Spring 2022, Spring 2020, Fall 2011

MAT 4610: Stochastic Oper Research

Probabilistic methods: brief review of probability, transient and asymptotic properties of Markov chains, queuing models and their applications, Markov decision processes, forecasting, game theory, simulation.

Credits 3.0

Prerequisites

MAT 2705 :D-

Prerequisite Courses

MAT 2705

Last Offered

Fall 2024, Fall 1997

MAT 5110: Topics in Geometry

Topics selected from affine, hyperbolic, spherical, elliptic, Euclidean or projective geometry.

Credits 3.0

Prerequisites

MAT 2600 :D-

Prerequisite Courses

MAT 2600

Last Offered

Fall 2024, Fall 2022, Fall 2020, Fall 2018

MAT 5200: Theory of Numbers

Congruences, quadratic reciprocity, Diophantine equations; applications.

Credits 3.0

Prerequisites

MAT 2600 :D-

Prerequisite Courses

MAT 2600

Last Offered

Spring 2023, Spring 2021, Spring 2018, Spring 2017

MAT 5400: Complex Analysis

Algebra of complex numbers, analytic functions, Cauchy-Riemann equation, Laplace equations, conformal mapping, integrals of complex functions, Cauchy's theorem, power series, Taylor's theorem, Laurent's theorem, residues, entire functions.

Credits 3.0

Prerequisites

(MAT 2500 :D- and MAT 2600 :D-)

Prerequisite Courses

MAT 2500

MAT 2600

Corequisites

Last Offered

Fall 2023, Spring 2022, Spring 2020, Spring 2018

MAT 5500: Topology

Topological equivalence, connectedness, compactness, topology of subsets of R^n , manifolds, topological embeddings, topological spaces.

Credits 3.0

Prerequisites

MAT 3300 :Y

Prerequisite Courses

MAT 3300

Last Offered

Spring 2025, Fall 2022, Spring 2020, Fall 2018

MAT 5600: Differential Geometry

Geometry of curves and surfaces, curvature, first and second fundamental forms, minimal surfaces, use of MAPLE.

Credits 3.0

Prerequisites

MAT 2500 :D-

Prerequisite Courses

MAT 2500

Last Offered

Fall 2025, Spring 2023, Spring 2019, Spring 2013

MAT 5900: Seminar in Mathematics

Supervised study of selected topics or problems in mathematics, student presentations. May be repeated for credit if content is different.

Credits 3.0

Prerequisites

MAT 3300 :D- or MAT 3500 :D-

Prerequisite Courses

MAT 3300

MAT 3500

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MAT 5920: Topics in Applied Mathematics

Lecture course in an area of applied mathematics. May be repeated for credit if topics are different.

Credits 3.0

Last Offered

Fall 2024, Spring 2023, Fall 2022, Fall 2021

MAT 5991: Independent Study

Reading in a selected branch of mathematics under the direction of a member of the staff. May be repeated for credit.

Credits 1.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

MAT 5992: Independent Study

Reading in a selected branch of mathematics under the direction of a member of the staff. May be repeated for credit.

Credits 2.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MAT 5993: Independent Study

Reading in a selected branch of mathematics under the direction of a member of the staff. May be repeated for credit.

Credits 3.0

Prerequisites

MAT 1505 :D-

Prerequisite Courses

MAT 1505

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

STAT 1230: Intro Statistics I

Displaying and summarizing data, basic probability concepts, normal distributions, sampling distributions, estimation for a single population parameter, regression and correlation. Not open to students who have completed MAT 1505.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

STAT 1235: Intro Statistics II

Probability concepts, hypothesis testing, inferences about means, variances and proportions, contingency tables, analysis of variance. Not open to students who have completed MAT 1505.

Credits 3.0

Prerequisites

MAT 1230 or STAT 1230

Prerequisite Courses

MAT 1230

STAT 1230

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

STAT 1250: Stats in Health Care Research

Descriptive and inferential statistics: graphical displays, estimation, & hypothesis testing. Restricted to nursing students; others by special permission only.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

STAT 1260: Elementary Statistics

Introduction to statistics including topics such as study design, graphical and numerical descriptive statistics, bivariate data analysis, probability, sampling distributions, confidence intervals, hypothesis testing, goodness of fit tests, analysis of variance; resampling and simulation using statistical software; interpreting output from and understanding selected algorithms used in statistical packages.

Credits 3.0

STAT 1313: Statistics for Life Sciences

Statistical concepts and methods with applications in biological and life sciences; data visualization, descriptive statistics, probability distributions, interval estimation and hypothesis testing for one and two variables, statistical software.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

STAT 1430: Business Statistics

Statistical concepts and methods useful in analyzing problems in all areas of business. Descriptive statistics, probability, sampling distributions, confidence intervals, hypothesis testing, regression analysis, and time series. Applications in various areas of business and economics.

Credits 4.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

STAT 3021: Topics in Statistics

Lecture course on a topic from Statistics. May be repeated for credit if topics are different.

Credits 1.0

STAT 4210: Bayesian Statistical Analysis

Application of Bayesian statistical procedures. Implementation using the programming language R. Bayes's Theorem. Bayesian statistical inference. Various types of prior distributions. Computer-intensive methods. Assessing the prior. Robustness analysis. Writing Bayesian statistical reports.

Credits 3.0

Prerequisites

MAT 4310 or STAT 4310 or
STAT 4315

Prerequisite Courses

MAT 4310

STAT 4310

STAT 4315

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

STAT 4310: Stat Methods

Data displays and summarization, probability distributions, point and interval estimation, hypothesis testing, categorical data analysis, regression and correlation.

Credits 3.0

Prerequisites

MAT 1505 :Y

Prerequisite Courses

MAT 1505

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

STAT 4315: Applied Statistical Models

Simple and multiple linear regression, including prediction, correlation, model building, multicollinearity, influential observations, and model fit; ANOVA for designed experiments, including completely randomized, randomized block and factorial designs; Time Series including linear time series models, moving averages, autoregressive and ARIMA models, estimation and forecasting.

Credits 3.0

Prerequisites

MAT 1505 and (MAT 1430 or STAT 1430 or MAT 4310 or STAT 4310)

Prerequisite Courses

MAT 1505

MAT 1430

STAT 1430

MAT 4310

STAT 4310

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

STAT 4380: Data Science

Combining and summarizing real-world data to inform decision-making and predictions; data wrangling, visualization, text mining, ethics; uses R programming language. Some programming experience recommended.

Credits 3.0

Prerequisites

MAT 1230 or STAT 1230 or MAT 1250 or STAT 1250 or MAT 1313 or STAT 1313 or MAT 1430 or STAT 1430 or MAT 4310 or STAT 4310 or CSC 2300

Prerequisite Courses

MAT 1230

STAT 1230

MAT 1250

STAT 1250

MAT 1313

STAT 1313

MAT 1430

STAT 1430

MAT 4310

STAT 4310

CSC 2300

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

STAT 4414: Categorical Data Analysis

Analysis of categorical response data, including contingency tables, logistic regression, multinomial logistic regression, and generalized linear models.

Credits 3.0

Prerequisites

STAT 4315

Prerequisite Courses

STAT 4315

Last Offered

Spring 2025

STAT 4416: Design of Experiments

Completely randomized, randomized block, and Latin square designs; full and fractional factorial designs; nested and split plot designs; response surface methodology.

Credits 3.0

Prerequisites

MAT 4310 or STAT 4310 or STAT 4315

Prerequisite Courses

MAT 4310

STAT 4310

STAT 4315

Last Offered

Spring 2025, Spring 2023

STAT 4444: Applied Time Series Analysis

Time series modeling, forecasting, and diagnostics, with an emphasis on applications from business and the sciences.

Credits 3.0

Prerequisites

STAT 4315

Prerequisite Courses

STAT 4315

STAT 4450: Regression for Biostatistics

Regression methods for analyzing medical and biological data, including multiple regression, logistic regression, survival modeling, and longitudinal mixed modeling.

Credits 3.0

Prerequisites

MAT 4310 or STAT 4310 or STAT 4315

Prerequisite Courses

MAT 4310

STAT 4310

STAT 4315

Last Offered

Spring 2024, Fall 2021

STAT 4452: Nonparametric Statistics

One-sample, two-sample, and multi-sample rank tests; nonparametric confidence intervals; permutation tests; nonparametric regression and correlation; the bootstrap.

Credits 3.0

Prerequisites

MAT 4310 or STAT 4310 or STAT 4315

Prerequisite Courses

MAT 4310

STAT 4310

STAT 4315

Last Offered

Spring 2024, Spring 2022

STAT 4480: Data Mining

Supervised and unsupervised data mining techniques, including clustering, classification, and association rule learning.

Credits 3.0

Prerequisites

MAT 4310 or STAT 4310 or STAT 4315

Prerequisite Courses

MAT 4310

STAT 4310

STAT 4315

Last Offered

Fall 2025, Spring 2024, Spring 2022, Spring 2021

STAT 5700: Probability

Probability, random variables, joint distributions, expected values, limit theorems, distributions derived from the normal distribution.

Credits 3.0

Prerequisites

MAT 2500

Prerequisite Courses

MAT 2500

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

STAT 5705: Theory of Stat Inference

Transformation of random variables, Distributions related to the normal, Central Limit Theorem, Law of Large Numbers, Point estimation, Maximum likelihood estimation, Bias, Consistency, Sufficiency, Confidence intervals, Hypothesis testing, Likelihood ratio tests.

Credits 3.0

Prerequisites

MAT 2500 and (MAT 5700 or STAT 5700)

Prerequisite Courses

MAT 2500

MAT 5700

STAT 5700

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

STAT 5905: Seminar in Statistics

Supervised study of selected topics or problems in statistics, with student presentations and papers. May be repeated for credit if content is different.

Credits 3.0

Prerequisites

(MAT 4315 or STAT 4315) and (MAT 5700 or STAT 5700)

Prerequisite Courses

MAT 4315

STAT 4315

MAT 5700

STAT 5700

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

STAT 5910: Topics in Statistics

Lecture course in an area of statistics. May be repeated for credit if topics are different. Prerequisites: Dependent on Topic.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Fall 2023, Spring 2023

Mechanical Engineering

ME 1201: Intro to Comp Aid Design&Draft

Fundamentals of 3D visualization; using CAD software for design development of parts & assemblies, including materials; and preparing standard engineering drawings with dimensions and fits to communicate mechanical designs.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 1205: Computer Program for Mech Engr

Introduction to programming for Mechanical Engineers using MATLAB, data analysis and visualization, algorithm development, linear algebra, numerical methods.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 2100: Statics

Vector analysis of force systems on particles and rigid bodies with particular emphasis on mathematical and physical formulation of principles underlying the solution of engineering problems; vector algebra; friction; centroids and moments of inertia.

Credits 3.0

Prerequisites

MAT 1505 :D- and PHY 2400 :D-

Prerequisite Courses

MAT 1505
PHY 2400

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 2101: Dynamic Systems I

Kinematics, velocity, and acceleration of particles in Cartesian, cylindrical, and spherical reference frames, projectile motion, dynamics of particles, momentum principles, systems of particles, rigid body kinematics and dynamics.

Credits 3.0

Prerequisites

(ME 2100 :D- or CEE 2105 :D-) and (MAT 2705 :Y :D-) and ME 1205 :Y

Prerequisite Courses

CEE 2105
MAT 2705

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 2103: Mechanics of Materials

Definition of stress and strain mechanical behavior of material under axial, shear, torsion, bending, and combined loads; stress and strain transformations; deflection of beams; buckling.

Credits 3.0

Prerequisites

ME 2100 or CEE 2100 or CEE 2105

Prerequisite Courses

CEE 2100
CEE 2105

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 2505: M.E. Analysis & Design

Introduction to the design process as a foundation for future mechanical engineering courses. The role that engineering design plays in contemporary society; the creativity and innovation inherent in mechanical engineering design; and development of the ability to function as part of a design team.

Credits 4.0

Prerequisites

MAT 1505 :D- and PHY 2400 :D-

Prerequisite Courses

MAT 1505
PHY 2400

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 2900: ME Laboratory I

Basic experiments related to instrumentation used in the field of Mechanical Engineering; includes data collection and design of experiments.

Credits 1.0

Prerequisites
Corequisites
Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ME 3100: Thermodynamics

Elements of thermodynamics theory, system and control volumes, properties of pure substance, ideal gas, heat and work interactions, first and second laws, entropy.

Credits 3.0

Prerequisites
Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ME 3102: Dynamic Systems II

Free and forced vibration of one degree-of-freedom mechanical systems, response to harmonic excitation, general excitation, transient response, transfer function analysis, higher order systems including two degree-of-freedom systems and DC motors.

Credits 3.0

Prerequisites
MAT 2705 and ME 2101

Prerequisite Courses
MAT 2705

Last Offered
Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ME 3103: Dynamic Systems III

Modeling of mechanical and electrical systems, feedback control systems with PID, analysis and design of transient and steady state response, stability analysis, root-locus technique, frequency domain analysis and design, state space methods.

Credits 3.0

Prerequisites
ME 3102 :D- and ECE 2030 :Y :D-

Prerequisite Courses
ECE 2030

Last Offered
Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ME 3300: Materials Science I

Introduction to crystal structures, imperfections in solids, diffusion, mechanical properties of materials, dislocations and strengthening mechanisms, phase diagrams, structure and properties of ceramics and polymers, electrical properties.

Credits 3.0

Prerequisites
CHM 1151 and CEE 2103 :Y or ME 2103 :Y

Prerequisite Courses
CHM 1151
CEE 2103

Last Offered
Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ME 3333: Manufacturing Engineering

Fundamentals of manufacturing including the relation among materials, structures, properties, and manufacturing processes, manufacturing economics, traditional manufacturing processes, and the new trend of advanced manufacturing such as 3D printing and nanomanufacturing.

Credits 3.0

Prerequisites
CHM 1151 and CEE 2103 :Y or ME 2103 :Y

Prerequisite Courses
CHM 1151
CEE 2103

Last Offered
Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ME 3402: Solid Mechanics & Design I

Stress, strain, stress-strain relations, strain gauges; stress analysis; static failure; fatigue failure; design projects.

Credits 3.0

Prerequisites
CEE 2103 or ME 2103 :D-

Prerequisite Courses
CEE 2103

Last Offered
Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ME 3403: Solid Mechanics & Design II

Design and analysis of machine elements; wear; torsion of noncircular sections; computer aided engineering; design projects.

Credits 3.0

Prerequisites

ME 3402

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 3600: Fluid Mechanics

Fluid properties, fluid statics; kinematics of flow; conservation of mass, energy, momentum; dynamic similarity; fluid resistance, boundary layer theory; flow in conduits; lift and drag; potential flow; compressible flow.

Credits 3.0

Prerequisites

MAT 2705 and (ME 2100 or CEE 2105)

Prerequisite Courses

MAT 2705

CEE 2105

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 3900: ME Laboratory II

Explores engineering designs through design-build-test cycles, by applying manufacturing principles and using analytical and experimental analysis to refine and optimize engineering designs.

Credits 1.0

Prerequisites

Corequisites

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 3950: Heat Transfer I

Steady state, unsteady state conduction in one & two dimensions; numerical methods of solution; forced & free convection in internal & external flow; heat exchangers; multi-mode heat transfer.

Credits 3.0

Prerequisites

ME 3100 and MAT 2705

Prerequisite Courses

MAT 2705

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 4001: Dynamic Systems Lab

Laboratory experiments in data acquisition, measurement and characterization of dynamic systems, vibration, smart actuators, and real-time control.

Credits 1.0

Prerequisites

ME 3102

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 4002: Solid Mechanics Lab

Laboratory experiments in structure, properties and mechanics of materials.

Credits 1.0

Prerequisites

ME 3402

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 4003: Thermal Fluids Lab

Laboratory experiments in thermodynamics, fluid mechanics, heat transfer, aerodynamics, engine performance, and energy conversion.

Credits 1.0

Prerequisites

ME 3950

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 4850: Thermal-Fluid System Design

Integration of thermodynamics, fluid mechanics and heat transfer and application to thermal designs.

Characteristics of applied heat transfer problems: nature of problem specification, incompleteness of needed knowledge based and accuracy issues.

Credits 3.0

Prerequisites

(ME 3600 :Y or CEE 3107 :Y) and ME 3950

Prerequisite Courses

CEE 3107

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 5000: Selected Topics in ME

(Technical Elective) Individual study of a selected topic with an ME faculty; requires exams/homework/projects similar to a regular course. Permission of Chairperson required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ME 5001: ME Undergraduate Research I

(Technical Elective) Individual participation in modern computational, analytical or experimental research activities under faculty supervision; requires technical report and presentation at end of semester. Permission of Chairperson required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

ME 5002: ME Undergraduate Research II

Individual participation in modern computational, analytical or experimental research activities under faculty supervision; requires technical report and presentation at end of semester. Permission of Chairperson required.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

ME 5005: Capstone Design I

Product design; durability, economic, safety, ethical and environmental considerations; robust and quality design; decision-making, planning, scheduling and estimating; design proposal.

Credits 2.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 5006: Capstone Design II

Continuation of ME 5005; product design; design review process; oral presentation of design projects; final written report. Must be taken the semester following ME 5005.

Credits 2.0

Prerequisites

ME 5005

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 5101: Elements of Aerodynamics

The standard atmosphere, two-dimensional incompressible flow, Reynolds and Mach number, generation of lift based on airfoil and wing platform characteristics, drag force, propulsive force, overall airplane performance, static stability and control.

Credits 3.0

Prerequisites

(ME 3600 or CEE 3107) and ME 3100

Prerequisite Courses

CEE 3107

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 5102: Compressible Fluid Flow

Foundations of fluid dynamics, isentropic flow, normal shock waves, flow in constant-area ducts and friction, flow with heat exchange, unsteady flow.

Credits 3.0

Prerequisites

ME 3100 and (ME 3600 or CEE 3500)

Prerequisite Courses

CEE 3500

Last Offered

Spring 2021, Fall 2019, Fall 2018, Spring 2018

ME 5130: Intro to Sustainable Energy

Technical aspects of sustainable energy technologies such as wind, solar, biomass, ocean waves/tides, geothermal, and hydropower. Issues related to storage, transportation, distribution, industrial usage, and buildings; progress, challenges, and opportunities for technical feasibility and economic viability.

Credits 3.0

Prerequisites

ME 3950 :Y

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2021

ME 5201: Intro to Finite Elements

Basic concepts of finite-element method, method of weighted residuals, 1-D axial and beam elements, 2-D stress and thermal elements, design projects via commercial codes.

Credits 3.0

Prerequisites

(ME 2103 or CEE 2103) and ME 3950 :Y

Prerequisite Courses

CEE 2103

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 5205: Flight Dynamics

Static stability and control of aircraft; equations of unsteady motion; stability derivatives; uncontrolled longitudinal and lateral motion; open loop control mechanisms; closed loop control concepts.

Credits 3.0

Prerequisites

ME 2101 :D-

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 5206: Aircraft Design

An integrated study of aerodynamics, propulsion, dynamics, structures, and performance with the purpose of a design of an aircraft that meets the desired specifications. Topics include weight estimates, sizing, configuration layout, wing geometry, propulsion estimates, and stability of motion.

Credits 3.0

Prerequisites

ME 2101 and (ME 2103 or CEE 2103)

Prerequisite Courses

CEE 2103

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 5207: Orbital Mechanics

Study of two-body problems with applications to geocentric orbits and interplanetary transfers. Topics include central force motion, Kepler's Law, orbit determination and maneuvers, Hohmann transfer and interplanetary trajectories.

Credits 3.0

Prerequisites

ME 2101 and MAT 2705

Prerequisite Courses

MAT 2705

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 5411: Mechatronics

Introduction to mechatronics, mechatronics components, its working principle and governing models, digital and analog electronics, mechatronic actuators, micro-controllers, sensors, modeling mechatronic systems, and case study. Senior standing.

Credits 3.0

Prerequisites

ECE 2030 :D- and MAT 2705 :D-

Prerequisite Courses

ECE 2030

MAT 2705

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

ME 5421: Introduction to Robotics

Basic principles of robotics; kinematic and dynamic concepts; actuators, sensors and practical issues; forward and inverse kinematics and dynamics of simple robotic arms; kinematics and dynamics of wheeled robots; alternative locomotion for mobile robots.

Credits 3.0

Prerequisites

ME 2101 and MAT 2705

Prerequisite Courses

MAT 2705

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2021

ME 5441: Advanced System Modeling

Lumped-parameter modeling of multiphysics dynamic systems, with examples from bioengineering and mechatronics; unified network thermodynamics approach using bond graph techniques to analyze interactions between mechanical, electrical, fluid, or thermal domains; computer simulation of system response.

Credits 3.0

Prerequisites

ME 3100 and ME 3102 and ME 3600 and ECE 2030

Prerequisite Courses

ECE 2030

Last Offered

Fall 2021, Fall 2019, Fall 2017, Fall 2016

ME 5500: Biomechanics

An introductory survey of topics from the field of biomechanics, such as joint mechanics, cellular mechanics, biomaterials, and prosthetic devices.

Credits 3.0

Prerequisites

ME 2103 or CEE 2103 or (EGR 2020 and EGR 2021)

Prerequisite Courses

CEE 2103

EGR 2020

EGR 2021

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ME 5600: Engineering Economics

Concepts and analytical techniques of engineering economics: engineering costs, cost estimating, discounted cash flows, rate of return, cost/benefit analysis, risk analysis, and impacts of certain macroeconomics factors. Focus is on the economic viability of engineering projects.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

Military Science

MS 0101: Army Critical Thinking Intro

Introduces students to the personal challenges and competencies that are critical for effective leadership and communication. Students learn how the personal development of life skills such as cultural understanding, goal setting, management, stress management, and comprehensive fitness relate to leadership, officership, and the Army profession. As students become further acquainted with MS 101, they learn the structure of the ROTC Basic Course program consisting of MS 101, 102, 201, 202, Fall and Spring Leadership Labs, and CIET. The focus is on developing basic knowledge and comprehension of Army leadership dimensions, attributes and core leader competencies while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MS 0102: Adaptive Ldrsp & Prof Competen

Introduces students to the professional challenges and competencies that are needed for effective execution of the profession of arms and Army communication. Through this course, students learn how Army ethics and values shape their Army and the specific ways that these ethics are inculcated into Army culture. This semester, students: Explore the Seven Army Values and the Warrior Ethos; Investigate the Profession of Arms and Army leadership as well as an overview of the Army; Gain practical experience using critical communication skills.

Credits 1.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MS 0201: Foundations of Leadership

Students explore the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Aspects of personal motivation and team building are practiced planning, executing and assessing team exercises. While participation in the leadership labs is not mandatory during the MS II year, significant experience can be gained in a multitude of areas and participation in the labs is highly encouraged. The focus continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation and squad tactics. Case studies will provide tangible context for learning the Soldier's Creed and Warrior Ethos.

Credits 2.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MS 0202: Found. of Tactical Leadership

Students examine the challenges of leading teams in the complex operational environment. The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. MS 202 prepares students for MS 301. Students develop greater self awareness as they assess their own leadership styles and practice communication and team building skills. Case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.

Credits 2.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MS 0301: Training Mgmt & Warfighting Func

Students study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and ethics, personal development, and small unit tactics at the team and squad level. At the conclusion of this course, students are capable of planning, coordinating, navigating, motivating and leading a team or squad in the execution of a tactical mission during a classroom PE, a Leadership Lab, or during a Situational Training Exercise (STX) in a field environment. Successful completion of this course will help prepare students for success at the ROTC Cadet Leader Course (CLC) which they attend in the summer at Fort Knox, KY. This course includes reading, homework, small group assignments and practical exercises, a mid-term exam, and a final exam. Students receive systematic and specific feedback on their leader attributes values and core leader competencies from their instructor and other ROTC cadre and MSL IV Cadets who will evaluate them using the ROTC Leader Development Program (LDP) model.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MS 0302: Applied Ldrshp Small Unit Op

Students study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level. At the conclusion of this course, students will be capable of planning, coordinating, navigating, motivating and leading a squad and platoon in the execution of a mission during a classroom PE, a Leadership Lab, or during a Leader Training Exercise (LTX). They will be required to write peer evaluations and receive feedback on their abilities as a leader and how to improve those leader skills that can further develop them into a successful officer. Includes reading, homework, small group assignments, briefings, case studies, and practical exercises, a mid-term exam, and a final exam. Students receive systematic and specific feedback on their leader attributes, values, and core leader competencies from their instructor, other ROTC cadre, and MSL IV Cadets who will evaluate them using the Cadet Officer Evaluation System (OES). Successful completion of this course will help prepare students for the ROTC Cadet Leader Course (CLC), which they will attend in the summer at Fort Knox, KY.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Fall 2022

MS 0400: MS: Independent Study

Credits 3.0

Last Offered

Fall 2022, Fall 2014, Fall 2013

MS 0401: Mission Command & Army Prof.

Students explore the dynamics of leading in the complex situations of current military operations. They examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. They also explore aspects of interacting with non-government organizations, civilians on the battlefield, the decision making processes and host nation support. The course places significant emphasis on preparing students for BOLC B and their first unit of assignment. It uses mission command case studies and scenarios to prepare them to face the complex ethical demands of serving as a commissioned officer in the United States Army. This semester, students: Explore military professional ethics, organizational ethics and ethical decision making processes; gain practical experience in Cadet battalion leadership roles and training management; begin their leadership self-development including civil military and media relations; prepare for the transition to a career as an Army Officer.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MS 0402: Mission Comm. & Co. Grade Offi

Students explore the dynamics of leading in the complex situations during Unified Land Operations I, II, and III. They examine the Art of Command and how to properly communicate with their NCOs and Soldiers during Taking Charge 1, 2 and 3, and Developing Others (counseling). During Cultural Awareness and Cultural Property Protection (CPP), students discuss numerous situations on how ethical decisions impact personnel and the unit mission. Through the understanding of their roles and responsibilities, students learn about Comprehensive Soldier Fitness (CSF), being ready and resilient (R2C) and Individual and Family Readiness can assist them in preparing their Soldiers and their families on reducing and managing stress during times of uncertainty. The course places significant emphasis on preparing students for BOLC B and their first unit of assignment. It uses mission command case studies and scenarios to prepare them to face the complex ethical demands of serving as a commissioned officer in the United States Army. This semester, students: Identify the leader's roles and responsibilities for enforcing Army policies and programs; Explore the dynamics of building a team prepared to handle any future operational environment and win; Examine the importance of understanding culture and how it can affect their unit and mission; Develop both oral and

written communication skills by conducting a battle analysis and decision briefs.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Spring 2024, Spring 2023

Naval Science

NS 0100: Naval Professional Lab

Military drill, information briefings, and seminars on various subjects of USN/USMC interest including naval orientation (freshman), naval warfare specialties (sophomores), navigation laboratory (juniors), career planning and pre-commissioning information (seniors).

Credits 0.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NS 1000: Intro to Naval Science

Course is an introduction to the naval profession and to the concepts of seapower. The mission, organization, and warfare components of the Navy and Marine Corps, including an overview of officer and enlisted ranks, rates, and career patterns; naval courtesy and customs, military justice, leadership, and nomenclature are discussed. Normally taken by freshmen.

Credits 2.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

NS 1050: Naval Science Orientation

Naval Science Orientation.

Credits 0.0

Last Offered

Fall 2024, Fall 2023, Fall 2022

NS 1100: Seapower and Maritime Affairs

Naval history from the beginnings of the age of sail through the twentieth century. The works and influence of Alfred Thayer Mahan as they relate to current and past fleet doctrine. The impact of foreign nations' maritime activities on world seapower. Normally taken by freshmen.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

NS 2100: Naval Ships Systems I

Construction and propulsion of naval ships, including design, stability, control of damage. Propulsion systems including steam, diesel, gas turbine, nuclear power plants; shipboard electrical power generation and distribution; and shipboard auxiliary systems including refrigeration, fresh water distilling plants and air compressors. Normally taken by sophomores.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

NS 2200: Naval Ships Systems II

Introduction to naval weapons systems including basics of radar, sonar, and gyroscopes; weapons systems analysis stressing the fire control problem, information flow, the servo principle, and use of computers; general operation, safety and maintenance of shipboard weapons systems. Normally taken by seniors.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

NS 3100: Navigation

The theory and technique of piloting and celestial navigation. Normally taken by juniors.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

NS 3200: Naval Operations

The maneuvering board, tactical communications, rules of the road, and seamanship. juniors.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

NS 3500: Evolution of Warfare

The evolution of weapons, tactics, and military organization applicable to land operations; the classic principles and variables of land operations.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring
2024, Spring 2022

NS 3600: Fundamentals of Maneuver Warfare

Introduces the student to the foundational concepts and history of the USMC as the premier Maneuver Warfighting Organization. Develops an individual who is both a critical thinker and scholar in the profession of arms.

Credits 3.0

Prerequisites

NS 1000

Last Offered

Spring 2025, Spring 2023,
Spring 2021, Spring 2019

NS 4100: Leadership and Management

Fundamentals of leadership and management of an organization; emphasis on the Naval officer as leader and manager, concentrating on areas such as professional ethics, organizational theory, and the characteristics and roles of successful leaders. Normally taken by sophomores.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

NS 4200: Leadership and Ethics

Applications of the principles of leadership and management with a focus and emphasis on the military arena. Ethical and moral responsibility examined with emphasis on the interrelationship of authority, responsibility and accountability in an organization. Discussion intensive with oral presentations. Draws upon the experiences of a number of guest speakers, both military and civilian.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

Nursing

NTR 2120: Principles of Nutrition

Principles of normal nutrition and the interrelatedness of economics, culture and health.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

NUR 1102: Intro to Prof Nursing

Core curricular concepts including professional values, evidence-based practice, patient centered care, clinical reasoning, therapeutic communication, patient safety and dignity, and scholarly analytical skills are addressed. Examines historical, current and future factors that affect professional nursing.

Credits 2.0

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

NUR 1104: Intro to Prof Nursing Practice

Examines professional nursing in the context of health care from national and global perspectives. Relationship of core curricular concepts to person-centered care is explored. Impact of healthcare planning, financing and delivery on nursing and global health is discussed.

Credits 2.0

Prerequisites

NUR 1102 :Y

Prerequisite Courses

NUR 1102

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

NUR 1105: Soc Justice&Hlth Eqty Prof Nsg

Exploring how social justice issues affect nursing, patients, and society is integral to developing the nursing profession. Students will examine how differences such as class, gender, and ability contribute to inequalities in healthcare and society.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NUR 2108: Human Pathophysiology

The basic mechanisms of the pathogenesis of human disease from the molecular, histologic, and systemic perspectives. Emphasis is placed on pathophysiologic conditions commonly encountered in the clinical setting. The influence of age, gender, etiologic agents, genetics, culture, stress, environment, and human behavior on prevention of disease, health promotion, health restoration, and health maintenance are examined. Current diagnostic and treatment modalities used in the clinical setting are discussed.

Credits 3.0

Prerequisites

BIO 1205 and BIO 1206

Prerequisite Courses

BIO 1205

BIO 1206

Last Offered

Summer 2025, Spring 2025

NUR 2200: Healthy Lifestyles & Human Val

Exploration of real life issues of college students, with emphasis on personal decision making and values clarification. Substance use/abuse, sexuality, depression, STD/AIDS, stress management.

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Spring 2024, Summer 2023

NUR 2204: Health Assessment

Health assessment of individuals across the life span, emphasizing the healthy adult. Health history and physical examination are discussed addressing evidence-based practice, clinical reasoning, genetics, genomics, culture, spirituality, ability, disability, sexuality, human development, health teaching, therapeutic communication, safety, and professional values.

Credits 2.0

Prerequisites

NUR 1104 :Y

Prerequisite Courses

NUR 1104

Corequisites

NUR 2205

Corequisite Courses

NUR 2205

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

NUR 2205: Practicum in Health Assessment

In the laboratory setting students apply techniques of health assessment, including gathering health history, assessing body systems, documenting findings, and providing health teaching while incorporating concern for safety, privacy, equity, and dignity within the context of professionalism and person-centered care.

Credits 1.0

Prerequisites

NUR 1104 :Y

Prerequisite Courses

NUR 1104

Corequisites

NUR 2204

Corequisite Courses

NUR 2204

Last Offered

Fall 2025, Summer 2025, Fall 2024, Summer 2024

NUR 2206: Essentials of Nursing Practice

Best practices in professional nursing applied to fundamental patient care skills, including safety, hygiene, activity, nutrition, elimination, sleep, oxygenation, medication administration, and health education are discussed. Using health assessment and clinical reasoning, nursing interventions to meet health care needs of individuals are addressed.

Credits 2.0

Prerequisites

NUR 2204 :Y and NUR 2205 :Y

Prerequisite Courses

NUR 2204

NUR 2205

Corequisites

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

NUR 2207: Practicum in Essen of Nsg Prac

Application of evidence-based fundamental nursing and patient care skills in a variety of settings. Implement nursing interventions to meet basic health needs of individuals in clinical settings.

Credits 3.0

Prerequisites

NUR 2204 :Y and NUR 2205 :Y

Prerequisite Courses

NUR 2204

NUR 2205

Corequisites

NUR 2206

Corequisite Courses

NUR 2206

Last Offered

Summer 2024, Spring 2024, Fall 2023, Summer 2023

NUR 2208: Practicum in Essen of Nsg Prac

Application of evidence-based fundamental nursing and patient care skills in a variety of settings. Implement nursing interventions to meet basic health needs of individuals in clinical settings.

Credits 3.0

Prerequisites

NUR 2204 :Y and NUR 2205 :Y

Prerequisite Courses

NUR 2204

NUR 2205

Corequisites

NUR 2206

Corequisite Courses

NUR 2206

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

NUR 2810: Resrch & Sci Evid in Nsg Prac

Critically examines the use of scientific evidence in nursing practice with emphasis on the use of systematic scholarly inquiry and analytical skills. The process for discovering new scientific evidence across research paradigms and their associated methodologies are examined.

Credits 3.0

Prerequisites

NUR 2204 :Y and (NUR 2205 :Y or NUR 3007 :Y) and (MAT 1250 :Y or MAT 1230 or STAT 1250 :Y or STAT 1230) and NUR 2206 :Y and NUR 2207 :Y

Prerequisite Courses

NUR 2204
NUR 2205
NUR 3007
MAT 1250
MAT 1230
STAT 1250
STAT 1230
NUR 2206
NUR 2207

Corequisites

Last Offered

Summer 2025, Summer 2024,
Spring 2024, Summer 2023

NUR 3030: Basic Conc Pharmacology

A classification of pharmacological agents, their actions, dosages, toxicity and interactions related to the physiological variables and life-cycle.

Credits 3.0

Prerequisites

((CHM 1131 :D- or CHM 1151 :D-) and (CHM 1134 :D- or CHM 1152 :D-)) and (BIO 1205 :D- and BIO 1206 :D-)

Prerequisite Courses

CHM 1131
CHM 1151
CHM 1134
CHM 1152
BIO 1205
BIO 1206

Last Offered

Fall 2024, Summer 2024,
Spring 2024, Fall 2023

NUR 3031: Basic Concepts in Pharmacology

Addresses classifications of selected pharmacological agents using the principles of pharmacokinetics and pharmacodynamics. Emphasis on maximizing therapeutic effects and minimizing adverse effects across the lifespan. Application of the nursing process with an emphasis on ethical and safe medication practices.

Credits 3.0

Corequisites

NUR 3104, NUR 3105

Corequisite Courses

NUR 3104
NUR 3105

Last Offered

Fall 2025, Summer 2025,
Spring 2025

NUR 3104: Nsg Adults & Older Adults I

Nursing theory and clinical care for adults and older adults with chronic and acute conditions, emphasizing ethical, holistic care and continuity across settings. Concepts Concepts are applied through didactic and clinical learning experiences in various healthcare environments.

Credits 5.0

Prerequisites

NUR 2206 :Y and NUR 2208 :Y

Prerequisite Courses

NUR 2206
NUR 2208

Corequisites

NUR 3031

Corequisite Courses

NUR 3031

Last Offered

Fall 2025, Summer 2025,
Spring 2025

NUR 3105: Psychiatric & Mental Hlth Nsg

Nursing care of individuals and families with psychiatric and mental health needs are examined. Theory and application of therapeutic communication, mental health assessment, health promotion, person-centered care, and family engagement will be accomplished through didactic and clinical learning environments.

Credits 5.0

Prerequisites

NUR 2206 :Y and NUR 2208 :Y

Prerequisite Courses

NUR 2206

NUR 2208

Corequisites

NUR 3031

Corequisite Courses

NUR 3031

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Spring 1997

NUR 3106: Nsg Care Adul & Older Adul II

Continuation of NUR 3104.

Nursing theory and clinical application of evidenced-based care of adults and older adults experiencing chronic and acute health conditions. Integrates principles of ethical and holistic nursing care. Continuity of care across settings (e.g., acute, chronic, and community) is emphasized. Application of concepts will be accomplished through didactic and clinical learning environments.

Credits 5.0

Prerequisites

NUR 3104 and NUR 3105 :Y and
NUR 3031 :Y

Prerequisite Courses

NUR 3104

NUR 3105

NUR 3031

Corequisites

NUR 3131

Corequisite Courses

NUR 3131

Last Offered

Fall 2025

NUR 3107: Nsg Care of Women & Families

Person-centered care of women and families. Topics include women's health, prenatal care, the birth process, postpartum care, mental health and wellness, newborn care, intimate partner violence, and women with disabilities. Application of concepts will be accomplished through didactic and clinical learning environments.

Credits 5.0

Prerequisites

NUR 3104 :Y and NUR 3105 :Y
and NUR 3031 :Y

Prerequisite Courses

NUR 3104

NUR 3105

NUR 3031

Corequisites

NUR 3131

Corequisite Courses

NUR 3131

Last Offered

Fall 2025, Fall 1997, Spring
1997, Fall 1996

NUR 3108: Pathophysiology

Human pathogenesis from the cellular, histologic, and systemic perspectives. Emphasis on pathophysiology that is commonly experienced by the individual and frequently encountered in the clinical setting. The influence of etiologic agents, environment, and human behavior on health maintenance, health restoration, and health promotion.

Credits 3.0

Prerequisites

BIO 1205 :D- and BIO 1206 :D-

Prerequisite Courses

BIO 1205

BIO 1206

Last Offered

Fall 2024, Summer 2024,
Spring 2024, Fall 2023

NUR 3114: Nsg Care Adults & Older Adults

Nursing care of adults and older adults with age-related acute and chronic health conditions. Ethical and holistic patient centered care focused on providing continuity of care to meet the needs of the patient and family across care settings.

Credits 6.0

Prerequisites

NUR 2206 and NUR 3108 :Y
and NUR 2207 and NUR 3030 :Y

Prerequisite Courses

NUR 2206

NUR 3108

NUR 2207

NUR 3030

Corequisites

NUR 3115

Corequisite Courses

NUR 3115

Last Offered

Fall 2024, Summer 2024,
Spring 2024, Fall 2023

NUR 3115: Prac Nsg Adults & Older Adults

Clinical application of current evidence, therapeutic nursing interventions and principles of teaching-learning for patient centered care of adults and older adults. Continuity of care across care settings, including acute, chronic and community based clinical settings is emphasized.

Credits 6.0

Prerequisites

NUR 2206 and NUR 3108 :Y
and NUR 2207 and NUR 3030 :Y

Prerequisite Courses

NUR 2206

NUR 3108

NUR 2207

NUR 3030

Corequisites

NUR 3114

Corequisite Courses

NUR 3114

Last Offered

Fall 2024, Summer 2024,
Spring 2024, Fall 2023

NUR 3118: Nsg Care Women & Childbear Fam

Nursing care of women and childbearing families across the reproductive spectrum.

Focuses on well women health and care of the childbearing family in wellness and in at risk situations, with an emphasis on improving the health of the family.

Credits 3.0

Prerequisites

NUR 3030 :Y and NUR 3108 and NUR 3114 and NUR 3115

Prerequisite Courses

NUR 3030

NUR 3108

NUR 3114

NUR 3115

Corequisites

NUR 3119, NUR 3122

Corequisite Courses

NUR 3119

NUR 3122

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

NUR 3119: Prac Nsg Women & Childbear Fam

Clinical application of current evidence, clinical reasoning, nursing judgment and a public health focus when planning, implementing and evaluating patient centered care for women and childbearing families. Clinical practice settings include hospitals, birthing centers, clinics, and other community based sites.

Credits 3.0

Prerequisites

NUR 3030 :Y and NUR 3108 and NUR 3114 and NUR 3115

Prerequisite Courses

NUR 3030

NUR 3108

NUR 3114

NUR 3115

Corequisites

NUR 3118, NUR 3122

Corequisite Courses

NUR 3118

NUR 3122

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

NUR 3120: Psychiatric & Mental Hlth Nsg

Nursing care of individuals and families with psychiatric and mental health problems.

Psychiatric nursing concepts from a biological, psychological, sociological, legal, ethical, policy and advocacy context are examined. Concepts of therapeutic communication, mental health recovery, family as resource are addressed.

Credits 3.0

Prerequisites

NUR 3030 :Y and NUR 3108 and NUR 3114 and NUR 3115

Prerequisite Courses

NUR 3030

NUR 3108

NUR 3114

NUR 3115

Corequisites

NUR 3121, NUR 3122

Corequisite Courses

NUR 3121

NUR 3122

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

NUR 3121: Prac Psych & Mental Hlth Nsg

Clinical application of nursing interventions for patients, families and groups experiencing mental health issues in hospital and community settings. Focused on integration of concepts of culture, ethnicity, spirituality, genetics/genomics, family and developmental influences on restoration, maintenance and promotion of health.

Credits 3.0

Prerequisites

NUR 3030 :Y and NUR 3108 and NUR 3114 and NUR 3115

Prerequisite Courses

NUR 3030

NUR 3108

NUR 3114

NUR 3115

Corequisites

NUR 3120, NUR 3122

Corequisite Courses

NUR 3120

NUR 3122

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

NUR 3122: Imper for Global & Pub Health

Provides a foundation for the role of nursing in public health. Examines factors and strategies that influence, promote, and maintain the health of populations locally, nationally, and globally.

Credits 3.0

Prerequisites

NUR 3104 and NUR 3105 and NUR 3031

Prerequisite Courses

NUR 3104

NUR 3105

NUR 3031

Corequisites

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

NUR 3131: Applied Pharm in Nsg Prac

An applied study of pharmacological concepts to patients with increasing medical complexity. Addresses classifications of selected pharmacological agents with an emphasis on application of previously integrated concepts of pharmacology, pathophysiology, anatomy and physiology and nursing.

Credits 2.0

Prerequisites

NUR 3031

Prerequisite Courses

NUR 3031

Corequisites

NUR 3106, NUR 3107

Corequisite Courses

NUR 3106

NUR 3107

Last Offered

Fall 2025

NUR 3810: Research & Schol in Nsg Pract

Scholarly activities and analytical skills in examining evidence with application to professional nursing. The process for communication of scholarly findings and scientific evidence will be highlighted including ethical and legal issues related to the development and use of scientific evidence.

Credits 3.0

Prerequisites

STAT 1250 :Y

Prerequisite Courses

STAT 1250

Last Offered

Fall 2025, Summer 2025

NUR 4031: Safe & Effect Pharm & Par Ther

Analysis and application of the nursing process and pharmacological principles across the lifespan to safely care for individuals, families, and communities. Addresses classifications of selected pharmacological agents with an emphasis on the management of co-morbidities and polypharmacy in various care settings.

Credits 2.0

Prerequisites

NUR 3131

Prerequisite Courses

NUR 3131

Corequisites

NUR 4111, NUR 4115

Corequisite Courses

NUR 4111

NUR 4115

NUR 4104: Nsg Adults w Comp Hlth Prob

Nursing care of acutely ill adults and older adults with complex health problems. Restoration, maintenance and promotion of health for acutely ill adults and older adults and continuity of care within specialized settings and across care settings is emphasized.

Credits 3.0

Prerequisites

NUR 3118 and NUR 3119 and NUR 3120 and NUR 3121 and NUR 3122

Prerequisite Courses

NUR 3118
NUR 3119
NUR 3120
NUR 3121
NUR 3122

Corequisites

NUR 4105

Corequisite Courses

NUR 4105

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NUR 4105: Prac Adults w Comp Hlth Prob

Clinical application of clinical decision making skills, clinical reasoning and nursing judgment in caring for adults and older adults with complex health problems. Focus is on provision of evidence based, patient centered care, patient safety, dignity and interprofessional collaboration.

Credits 3.0

Prerequisites

NUR 3118 and NUR 3119 and NUR 3120 and NUR 3121 and NUR 3122

Prerequisite Courses

NUR 3118
NUR 3119
NUR 3120
NUR 3121
NUR 3122

Corequisites

NUR 4104

Corequisite Courses

NUR 4104

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NUR 4108: Nsg Care Child & Adol

Nursing care of children, adolescents and families in community based and acute care settings. Emphasis is placed on family, social, cultural, religious and developmental factors on health promotion for well, acutely ill and chronically ill children and adolescents.

Credits 3.0

Prerequisites

NUR 3118 and NUR 3119 and NUR 3120 and NUR 3121 and NUR 3122

Prerequisite Courses

NUR 3118
NUR 3119
NUR 3120
NUR 3121
NUR 3122

Corequisites

NUR 4109

Corequisite Courses

NUR 4109

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NUR 4109: Prac Nsg Care Child & Adol

Clinical Application of clinical decision making, clinical reasoning and nursing judgment in caring for children, adolescents and families in acute care and community based settings. Focus is on providing evidence based, patient centered care to maintain, restore and promote health.

Credits 3.0

Prerequisites

NUR 3118 and NUR 3119 and NUR 3120 and NUR 3121 and NUR 3122

Prerequisite Courses

NUR 3118
NUR 3119
NUR 3120
NUR 3121
NUR 3122

Corequisites

NUR 4108

Corequisite Courses

NUR 4108

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NUR 4111: Nsg Adults w Comp Hlth Prob

Nursing theory and clinical application of evidenced-based care of acutely ill adults and older adults with complex health problems. Focus is on the provision of evidence-based, safe person-centered care, dignity, and interprofessional collaboration. Application of concepts will be accomplished through didactic and clinical learning environments.

Credits 5.0

Prerequisites

NUR 3106 and NUR 3107 and NUR 3131

Prerequisite Courses

NUR 3106
NUR 3107
NUR 3131

Corequisites

NUR 4031

Corequisite Courses

NUR 4031

NUR 4112: Health Prom & Home Health

Nursing care for individuals, families, communities and populations. Emphasis is placed on designing, implementing and evaluating population based interventions to promote health.

Consideration is given to populations experiencing chronic health problems being cared for in the home and community.

Credits 3.0

Prerequisites

NUR 4104 and NUR 4105 and NUR 4108 and NUR 4109 and NUR 2810 and NUR 3122 and NUR 4113 :Y

Prerequisite Courses

NUR 4104
NUR 4105
NUR 4108
NUR 4109
NUR 2810
NUR 3122
NUR 4113

Corequisites

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

NUR 4113: Prac Health Prom & Home Health

Clinical application of evidence based nursing care in community based settings that provide home care or ambulatory care for individuals, families, communities, and populations of all ages. Application of health promotion strategies for populations to maintain or improve health.

Credits 5.0

Prerequisites

NUR 4104 and NUR 4105 and NUR 4108 and NUR 4109 and NUR 4112 :Y

Prerequisite Courses

NUR 4104

NUR 4105

NUR 4108

NUR 4109

NUR 4112

Corequisites

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

NUR 4114: Nursing and Health Policy

Impact of health policy, health care financing and economics, legislative and regulatory authority on nursing practice and the health care delivery system. Societal and professional issues influencing nursing practice and the nurse as an active participant in policy are examined.

Credits 2.0

Prerequisites

NUR 3118 :Y and NUR 3119 :Y and NUR 3120 :Y and NUR 3121 :Y and NUR 3122 :Y

Prerequisite Courses

NUR 3118

NUR 3119

NUR 3120

NUR 3121

NUR 3122

Last Offered

Fall 2025, Fall 2024, Summer 2024, Fall 2023

NUR 4115: Nursing Care of Child & Adul

Care of children and adolescents in community-based and acute care settings. Emphasizes family, social, cultural, religious, and developmental influences on well, acutely ill, and chronically ill children and adolescents. Application of concepts will be accomplished through didactic and clinical learning environments.

Credits 5.0

Prerequisites

NUR 3106 and NUR 3107 and NUR 3131

Prerequisite Courses

NUR 3106

NUR 3107

NUR 3131

Corequisites

NUR 4031

Corequisite Courses

NUR 4031

NUR 4116: Leadership & Management

Principles of leadership, management and organizational processes in nursing practice and in health care systems. Nursing's responsibility for quality, patient safety, professional values, accountability, and interprofessional collaboration is emphasized.

Credits 2.0

Prerequisites

NUR 4104 :Y and NUR 4105 :Y
and NUR 4108 :Y and NUR
4109 :Y and NUR 4114 :Y

Prerequisite Courses

NUR 4104
NUR 4105
NUR 4108
NUR 4109
NUR 4114

Corequisites

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

NUR 4117: Fld Work Leadership & Mgmt

Clinical application of principles of leadership and management and organizational processes in nursing practice. Field work experiences may include acute care, long-term care, home health, and community based settings.

Credits 3.0

Prerequisites

NUR 4104 and NUR 4105 and
NUR 4108 and NUR 4109 and
NUR 4114 :Y and NUR 4116 :Y

Prerequisite Courses

NUR 4104
NUR 4105
NUR 4108
NUR 4109
NUR 4114
NUR 4116

Corequisites

Last Offered

Summer 2025, Spring 2025,
Summer 2024, Spring 2024

NUR 4118: Cult Infl on Hlth Blf & Prac

Cultural influences on health beliefs and practices are examined. Implications for providing culturally sensitive nursing care to diverse individuals, groups and communities are addressed.

Credits 3.0

Last Offered

Summer 2020, Spring 2020,
Fall 2019, Summer 2019

NUR 4119: Nsg Leadership & Health Policy

This course explores the nurse's role as a leader and advocate in health policy, covering professional identity, health care economics, quality and safety initiatives, legislation, and social determinants of health. It also examines key issues impacting practice, education, and scholarship

Credits 3.0

Prerequisites

NUR 3106 and NUR 3107 and
NUR 3131 and NUR 3122

Prerequisite Courses

NUR 3106
NUR 3107
NUR 3131
NUR 3122

NUR 4120: Community & Population Health

Nursing care in the community for individuals, families, and populations. Emphasis is placed on the health-illness continuum and community and public health standards of best practice, utilizing the nursing process to promote health, prevent disease, and reduce health disparities. Application of concepts will be accomplished through didactic and clinical learning environments.

Credits 7.0

Prerequisites

NUR 4111 and NUR 4115 and
NUR 3122

Prerequisite Courses

NUR 4111
NUR 4115
NUR 3122

NUR 4121: Knowledge Integ Pro Nsg Pract

Synthesis of core curricular concepts with an exploration of topics related to the transition to professional nursing practice. Emphasis on professional identity development, establishing habits of lifelong learning, obtaining licensure, and success in initial employment
Credits 2.0

Prerequisites

NUR 4111 and NUR 4115 and NUR 4031 and NUR 4119

Prerequisite Courses

NUR 4111
NUR 4115
NUR 4031
NUR 4119

NUR 4122: Trans to Prof Nsg Practice

Integration of previously acquired clinical skills, leadership concepts, therapeutic communication, and clinical judgment in the provision of person-centered, evidence-based care of diverse populations. Precepted experiences will occur in various settings. Focus is the transition of the student into a professional nursing role.
Credits 3.0

Prerequisites

NUR 4111 and NUR 4115 and NUR 4031 and NUR 4119 :Y

Prerequisite Courses

NUR 4111
NUR 4115
NUR 4031
NUR 4119

NUR 4200: Seminars in Selected Topics

Opportunity for focused study of selected topics, such as current issues and trends in nursing and healthcare.
Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

NUR 4900: Guided Study in Nursing

Study or project development in a special interest area in nursing under faculty guidance. Includes tutorial sessions as necessary. Registration with the permission of the Dean.
Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NUR 4901: Guided Study in Nursing

Credits 2.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NUR 4902: Guided Study in Nursing

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

NUR 4903: Guided Study in Nursing

Credits 4.0

Last Offered

Spring 2021, Spring 2020, Spring 2019, Spring 2018

NUR 4904: Guided Study in Nursing

Credits 5.0

Last Offered

Spring 2021, Spring 2020, Spring 2019, Spring 2018

NUR 4905: Guided Study in Nursing

Credits 6.0

Last Offered

Spring 2021, Spring 2020, Spring 2019, Spring 2018

Organizational Development Management

ODM 1000: Foundation of Organiz Behavior

Overview of the key principles and research of organizational behavior. Examines individual human behavior in the workplace as influenced by personality, values, perceptions, and motivations, and group behavior as related to collaboration, communication, politics, and negotiation.
Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

ODM 1100: Foundations of Strategic Mgmt

Overview of key principles and practices of strategic management. Examines topics such as establishing mission, vision, and direction, evaluating environmental influences, assessing industry and market trends, building organizational culture, leading effective teams, managing and leading change. Emphasizes the development and implementation of strategy across industries.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ODM 2000: Essentials of Finance & Acct

Introduction to basic standards and concepts underlying finance and accounting. Topics include balance sheets, income statements, cash flow statements, budgets, forecasts, and reporting.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ODM 2010: Foundations of Marketing

Introduction to key concepts, terms, and strategies used in the marketing function of an organization. Focus is on understanding how firms and consumers behave and developing a tool kit of strategies and tactics to be used in promoting an organization's marketing strategy.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ODM 2020: Ethics, Regulations & Soc Resp

Examines the intersection of ethics, regulation, and social responsibility, and the business management and strategy. Provide students with the opportunity to understand and analyze the economic, legal, political, ethical, and societal issues involving the interaction of business, government, and society.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ODM 2030: Organizational Decision Making

Explores decision-making philosophy, approaches, challenges, and best practices. Provides opportunities to analyze contexts that impact decision process and quality, and develop skills related to individual and organizational decision-making.

Credits 3.0

Last Offered

Summer 2025, Summer 2024,
Summer 2023, Summer 2022

ODM 2040: Strategic Oper & Process Impro

Introduces key components of operations management and strategy. Overview and analysis of tools, techniques, and methodologies of process improvement.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

ODM 2050: Innovation & Creative Thinking

The cultivation of innovation and creative thinking are essential to an organization's success in the 21st Century Global context. This course will examine how innovation and creativity can be facilitated, managed and sustained in a work setting. Students will learn about the theories behind and the practical applications of these key concepts.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

ODM 3010: Sports Management & Administration

This course is designed to provide a full overview of the historical development and a comprehensive analysis of the multiple and varied disciplines that encompass the field of Sports Management. Different industries will be examined - pro teams, college and secondary school athletic departments, recreation and fitness, and facilities. We will focus on the skills and competencies required to be enter a career and to be successful in the sports management field.

Credits 3.0

Last Offered

Summer 2025, Summer 2024,
Summer 2023

ODM 5000: Organizational Development & Management Capstone

Integrates strategic management and organizational development tools and practices from throughout the curriculum to topics such as change management and entrepreneurship.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

Peace and Justice

- [Peace and Justice, B.A. \(GIS\)](#)

Location: Corr Hall, Rm. 106

PJ 2250: Violence & Justice in the World

Examines root causes of violence, pathways to building a more peaceful and just world. Basic issues include, peace, justice, power dynamics, violence, nonviolence, restorative justice peacemaking, peacekeeping, and peace building.

Credits 3.0

Last Offered

Fall 2024, Fall 2022, Fall 2019,
Fall 2013

PJ 2500: Education & Social Justice

American education's contribution to class, gender, and "race" inequality; political bias in school curricula; unequal treatment of students by teachers and administrators based on "race"

Credits 3.0

Last Offered

Spring 2025, Fall 2021, Spring 2021, Fall 2020

PJ 2700: Peacemakers & Peacemaking

Classical and contemporary examples and approaches to peacemaking in response to injustice and social conflict. Issues to be considered include the nature and significance of nonviolent struggle, political reconciliation, and the role of religion in shaping moral action for social change.

Credits 3.0

Last Offered

Fall 2024, Spring 2022, Fall 2019, Spring 2019

PJ 2800: Race, Class, & Gender

A critical examination of the social constructions of race, class, gender, and sexuality in U.S. culture and the injustices and inequalities that arise from them. Strategies, policies, and procedures for change are also examined.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

PJ 2993: Internship

Internship

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

PJ 2996: Internship

Internship.

Credits 6.0

Last Offered

Summer 2025, Summer 2024,
Spring 2024, Fall 2023

PJ 3000: Selected Topics

Violence in families and society, the traditions of Just War theory, and the critiques of war from the perspective of pacifism and non-violence. The importance and role of the peacemakers of the world, the values of conflict resolution, and strategies that aid the creation of a peaceful world order.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PJ 4000: Selected Topics

The history of the struggle for justice and human rights in geographical locations, such as the Middle East, Ireland, Africa, and Central America, focusing on such issues as world hunger and apartheid, and culminating in an attempt to articulate systemic questions of justice.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

PJ 4100: Nature of Genocide

This course explores the modern phenomenon of genocide by tracing its causes through historical, sociological, political, neurological, colonial, and religious roots. This is a multimedia, multi-disciplinary course focused on Rwanda, North America, Ottoman Turkey, Nazi Germany, and the form Yugoslavia.

Credits 3.0

Prerequisites

THL 1000 or THL 1050 or THL 1051 or HON 1003 or HON 1053 or HON 1825 or HON 1827 or HON 1850

Prerequisite Courses

THL 1000

THL 1050

THL 1051

HON 1003

HON 1053

Last Offered

Fall 2025

PJ 5000: Selected Topics

Justice & discrimination in U.S. society from social, economic, political & ethical perspectives. Strategies for the just elimination of discrimination. Topics include civil rights, gender issues of justice, etc.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

PJ 5100: Discrimination, Justice & Law

Development of discrimination and civil rights law in the United States through case materials in areas of racial discrimination, gender-based discrimination, reverse discrimination, sexual preference-based discrimination, and age discrimination, if time permits.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PJ 5101: Theol, Ethics, & CrimJustice

This course engages mass incarceration alongside scriptural and theological voices on justice and punishment. We take up notions of divine justice, atonement, and damnation/salvation as we examine practices of the criminal system and current efforts to reform or abolish it.

Credits 3.0

Prerequisites

THL 1000 or THL 1050 or THL 1051 or HON 1003 or HON 1053 or HON 1825 or HON 1827 or HON 1850

Prerequisite Courses

THL 1000

THL 1050

THL 1051

HON 1003

HON 1053

Last Offered

Fall 2025

PJ 5500: Politics of Whiteness

Examination of scholarship addressing the structure, function, & manifestations of "whiteness"

Credits 3.0

Last Offered

Spring 2022, Spring 2021,
Spring 2020, Spring 2019

PJ 5600: Independent Study

Independent Study

Credits 3.0

Last Offered

Fall 2025, Spring 2024, Fall
2023, Spring 2023

Philosophy

PHI 1000: Knowledge, Reality, Self

Philosophical responses to the questions of how we can know, what is real, and what is the nature of human existence that explore the dialogue between Catholic, Christian, secular and skeptical perspectives on these questions.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

PHI 1990: Topics

One-credit course on variable topics; course meets for a minimum of 14 hours.

Credits 1.0

Last Offered

Spring 2021

PHI 2010: Logic & Critical Thinking

The study of logic and critical thinking. Topics include: argument identification and analysis; formal and informal logic; fallacies; inductive argument; the role of argumentative structures in various philosophical traditions.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Fall
2023, Spring 2023

PHI 2020: Symbolic Logic

Propositional and first-order predicate logic; logical structure of arguments; symbolic languages; correct and incorrect inferences; fallacies; truth-tables; natural deduction.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

PHI 2115: Ethics for Health Care Prof

Rights and duties of the patient/client and the members of the health care team, death and dying, genetic engineering and manipulation.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

PHI 2117: The Good Doctor

The art and science, learning and dispositional attitudes necessary for the moral practice of medicine by a good doctor. Themes for the course drawn from philosophical resources, sociological theory, data and first-person medical narratives.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Fall 2022,
Fall 2021

PHI 2121: Environmental Ethics

The relation of the physical and biological environment to ethical values. Priorities among environmental, economic and political values as a basis for ethical decisions.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

PHI 2155: Engineering Ethics

Engineering ethics through case studies focusing on professional responsibility, the role of technology in society and a holistic evaluation of the purpose of science and engineering.

Credits 3.0

Last Offered

Spring 2024, Spring 2022,
Spring 2020, Spring 2019

PHI 2160: The Ethics of War

Just war theory, total war, nuclear deterrence and nuclear war, disarmament, genocide, war crimes and atrocities, terrorism, non-violent resistance, and pacifism.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Fall 2020, Spring 2019

PHI 2180: Computer Ethics

Codes of professional ethics, unauthorized access, ownership of software, and the social responsibility of computing professionals.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PHI 2190: Freedom

Human freedom analyzed from a metaphysical and political perspective; readings from classical and contemporary sources on such topics as determinism, slavery, rights, authority and dissent.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Spring 2023, Spring 2018

PHI 2400: Social & Political Phil

Social and political philosophers and the influence of their theories on the philosophical foundation of modern culture and society; emphasis on such conceptions as society, the state, justice and equality, and the social and political nature of persons.

Credits 3.0

Last Offered

Spring 2025, Spring 2023, Fall 2022, Spring 2022

PHI 2410: Philosophy of Sex & Love

Embodiment, the nature of sexuality, the types of love, sexual ethics, marriage, sexual differences, and sexual discrimination.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2022

PHI 2420: Philosophy of Women

Nature and status of women from ancient times to the present, with consideration of the more general context of self-identity; contemporary feminist theories; feminism as a political movement.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

PHI 2450: Catholic Social Thought

Catholic Social Thought from Rerum Navarum to the present. Its Aristotelean-Thomistic grounding. The Church's challenge to analyses of contemporary social, political, and economic systems.

Credits 3.0

Last Offered

Spring 2025, Fall 2023, Spring 2023, Fall 2022

PHI 2470: Irish Thought and Literature

An examination of main thinkers in the Irish tradition; the relation of reason (science) and religion; the importance of poetry; themes to be explored include (e)migrant thought, exile and home, English as colonizers, language and voice, laughter and comedy.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2020

PHI 2480: Africana Philosophy

Survey of theoretical writings and discourses by authors from Africa and the African diaspora at large, especially African-American and West-Indian authors.

Credits 3.0

Last Offered

Fall 2021, Spring 2020

PHI 2490: Latin Amer & African Amer Phil

Colonialism and anti-colonial struggles, slavery and abolition, the Black and Latinx radical traditions, intersectionality and materialist critique, race/gender/sexuality/class relations, mass incarceration and detention, media and culture, liberation struggles.

Credits 3.0

Last Offered

Spring 2024, Fall 2022, Spring 2021

PHI 2500: Philosophy of Exchange

Monetary exchange in philosophical perspective: money as a means and as an end; higher and lower forms of exchange; sacrificial economies; the politics of scarcity; sacred economics.

Credits 3.0

Last Offered

Spring 2021, Fall 2019, Spring 2018, Spring 2005

PHI 2550: Technology & Society

Case studies of specific technologies (such as television, automobiles, health technology) and critical examination of ethical Philosophical and policy issues that these technologies raise.

Credits 3.0

Last Offered

Fall 2023, Fall 2022, Spring 2021, Fall 2020

PHI 2700: Philosophy of Science

Philosophical implications of specific laws and theories; Newton's laws, energy, evolution, relativity, atomic theory. Methodological problems of observation, discovery, testing; scientific realism, revolutions in scientific thought.

Credits 3.0

Last Offered

Spring 2024, Fall 2022, Fall 2021, Spring 2006

PHI 2760: Philosophy & Literature

Philosophical ideas in selected literary works; examination of the relation of literature to philosophy; fiction and truth, modes of communication.

Credits 3.0

Last Offered

Fall 2022, Summer 2022, Fall 2020, Summer 2015

PHI 2900: Philosophy of Religion

The meaning of God, the experience of the Divine, nature of revelation, negative theology, the absence of God.

Credits 3.0

Last Offered

Spring 2023, Spring 2021, Fall 2019, Spring 2019

PHI 2930: Indian Philosophy

Introduction to basic traditions of Indian philosophy; exploration of debates between these traditions on fundamental issues of epistemology metaphysics, and philosophy of religion.

Credits 3.0

Last Offered

Spring 2025, Spring 2020

PHI 2940: Indian & Tibetan Buddhist Phil

An exploration of fundamental problems, traditions, and themes in Buddhist philosophy as developed in India and Tibet.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2021

PHI 2990: Topics in Philosophy

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PHI 2993: Internship

Departmentally related and academically creditable field work experience. See department chair for more information. Permission of Department Chair required.

Credits 3.0

Last Offered

Summer 2025, Spring 2025, Summer 2024, Spring 2024

PHI 2996: Internship

Departmentally related and academically creditable field work experience. See department chair for more information.

Credits 6.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

PHI 3000: Research Seminar Phil Majors

Research methods and information literacy in Philosophy leading to practiced philosophical writing based on instructor feedback and/or peer review.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Fall 2023, Spring 2004

PHI 3020: History of Ancient Philosophy

Plato, Aristotle and selected pre-Socratic and Hellenistic philosophers in the context of ancient and classical Greek civilization.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHI 3030: History of Medieval Philosophy

Philosophical movements from the early Middle Ages to the rise of modern philosophy; the influence of later Medieval speculation upon thinkers of the modern period; readings from Augustine, Aquinas, Bonaventure, and others.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHI 3040: Hist of Early Mod Philosophy

The systems of Descartes, Spinoza, Leibniz, and the empiricists - Locke, Berkeley, and Hume; Kant; selections read and evaluated.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PHI 3050: Kant & 19th Cent Philosophy

Credits 3.0

Last Offered

Fall 2022, Fall 2021, Fall 2019, Fall 2017

PHI 3100: Augustine & Antiquity

Life and thought of Saint Augustine; the problem of certitude, the problem of evil, the nature of history, human knowledge and God, the soul-body relations, and political philosophy.

Credits 3.0

Last Offered

Fall 2023, Spring 2021, Spring 2018, Spring 2009

PHI 3160: History of Islamic Phil

Islamic thought, concentrating particularly on Islamic medieval theology and philosophy.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2022, Spring 2021

PHI 3720: Marx & Marxism

Marx on the theories of human nature, freedom and history; related developments in Marxist thought.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Spring 2020, Spring 2014

PHI 3990: Topics in Hist of Philosophy

Credits 3.0

Last Offered

Spring 2023, Spring 2022, Spring 2021, Spring 2019

PHI 4125: Bioethics

Advanced issues in clinical and research ethics: neuro-enhancement, radical life-extension, phase 1 trials on the non-consenting, ethics of life and death, and ethics of pandemics.

Credits 3.0

Last Offered

Fall 2020, Spring 2020, Fall 2018, Fall 2015

PHI 4140: Phil of Contemporary Music

Critical listening to rock pop, jazz, rap, funk, punk, dance, and ambient music; relation of music to noise; theories of Hanslick, Nietzsche, Adorno, Barthes, Foucault, Deleuze, and Cage.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PHI 4150: Philosophy & Film

Analysis of selected classics and current films from the perspective of basic philosophical concepts and questions.

Credits 3.0

Last Offered

Fall 2023, Spring 2023, Fall 2022, Spring 2022

PHI 4210: Environmental Philosophy

Credits 3.0

Last Offered

Fall 2021

PHI 4300: Death and Dignity

An account of the most influential philosophical interpretations of death, and an exploration of the fact of dying as a political and social phenomenon grounded on historical examples.

Credits 3.0

Last Offered

Spring 2021, Spring 2000

PHI 4600: Psychoanalysis & Philosophy

Philosophical implications of Freudian theory as it relates to the individual and culture; the role of the unconscious; interpretation, structure of the ego, human sexuality and the foundations of civilization.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Fall 2021, Fall 2020

PHI 4610: Philosophy of Mind

The nature of mind, soul, consciousness; the mind-brain relationship; classical and contemporary philosophical approaches; the nature of person identity and moral responsibility.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PHI 4825: Existentialism

The active, feeling and living human being as the starting point for thinking about existence as more than brute facts and rational truths. Alienation, absurdity, emptiness and dread but also the freedom, authenticity, commitment and creativity as human responses to the apparent meaninglessness of life.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

PHI 4990: Independent Study & Research

Topic chosen by the student and approved by the professor and the chair.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PHI 5000: Adv Sem for Phil Majors

Special topic in philosophy or current interest to faculty and students. Course is open to Philosophy majors and minors and graduate students with the approval of the Director of Graduate Studies in Philosophy.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

PHI 6000: Senior Thesis

Inquiry in depth into one major philosophical problem or into the thought of one major philosopher; practice in the use of research and bibliographical techniques. techniques.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Physics

MSE 2602: PHY:40% Solution: Light/Sound

Reflection, Refraction, Mirrors, Lenses; Interference and Diffraction; Light and our Atmosphere; Electromagnetic Radiation; Light Waves and Photons; Waves and Sound; Standing Waves; Music and Harmonics; Doppler Effect.

Credits 3.0

Corequisites

MSE 2652

Corequisite Courses

MSE 2652

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MSE 2603: PHY:Big Bang: Forces/Particles

The Creation; What is Science?; Heliocentric System; Gravity on Earth; Newton's Laws; Gravity in the Universe; The Atom and Nucleus; Electromagnetic Forces; Strong Nuclear Force; Radioactivity; Elementary Particles; Standard Model; Anthropic Principle.

Credits 3.0

Corequisites

MSE 2653

Corequisite Courses

MSE 2653

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MSE 2604: PHY:The Physics of Sports

An examination of the underlying physical principles governing sports, with exploration of such questions as how curve balls curve, why golf balls have dimples, and why sailboats can sail almost directly into the wind.

Credits 3.0

Corequisites

MSE 2654

Corequisite Courses

MSE 2654

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

MSE 2652: PHY:40% Solution Lab

Experiments to accompany MSE 2602.

Credits 1.0

Corequisites

MSE 2602

Corequisite Courses

MSE 2602

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MSE 2653: PHY: Big Bang Lab

Experiments to accompany MSE 2603.

Credits 1.0

Corequisites

MSE 2603

Corequisite Courses

MSE 2603

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

MSE 2654: PHY:The Physics of Sports Lab

Experiments to accompany MSE 2604.

Credits 1.0

Corequisites

MSE 2604

Corequisite Courses

MSE 2604

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PHY 1100: General Physics I

Mechanics, heat and sound. Recommended for Biology majors.

Credits 3.0

Prerequisites

(MAT 1310 :Y :D- or MAT 1312 :Y :D- or MAT 1320 :Y :D- or MAT 1400 :Y :D- or MAT 1500 :Y :D-)

Prerequisite Courses

MAT 1310

MAT 1312

MAT 1320

MAT 1400

MAT 1500

Corequisites

Last Offered

Fall 2025, Fall 2024, Summer 2024, Fall 2023

PHY 1101: General Physics I Lab

Selected experiments in mechanics, heat and sound. Recommended for Biology majors.

Credits 1.0

Prerequisites

Corequisites

Last Offered

Fall 2025, Fall 2024, Summer 2024, Fall 2023

PHY 1102: General Physics II

A continuation of PHY 1100; light, electricity and modern physics. Recommended for Biology majors.

Credits 3.0

Prerequisites

PHY 1100 :D- and (MAT 1312 :D- or MAT 1320 :D- or MAT 1400 :D- or MAT 1500 :D-)

Prerequisite Courses

PHY 1100

MAT 1312

MAT 1320

MAT 1400

MAT 1500

Corequisites

Last Offered

Spring 2025, Summer 2024, Spring 2024, Summer 2023

PHY 1103: General Physics II Lab

Selected experiments in light and electricity. Recommended for Biology majors.

Credits 1.0

Prerequisites

PHY 1101 :D-

Prerequisite Courses

PHY 1101

Corequisites

Last Offered

Spring 2025, Summer 2024, Spring 2024, Summer 2023

PHY 2001: Professional Development I

Professional development including engagement in department colloquia, workshops on resume and cover letter writing, guidance regarding research and professional opportunities, discussions of identity in professional setting, and other topics

Credits 1.0

Last Offered

Fall 2025

PHY 2002: Professional Development II

Professional development including engagement in department colloquia, preparation of research applications and summer opportunities, workshops on creating research posters and presentations, alumni networking opportunities, and other topics.

Credits 0.0

PHY 2400: Physics I Mechanics

Introduction to Mechanics. Designed for students in the College of Engineering.

Credits 3.0

Prerequisites

MAT 1500 :Y :D-

Prerequisite Courses

MAT 1500

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PHY 2402: Physics II Elec & Magnet

Electrostatics, DC Circuits, magnetism, and AC circuits. Designed for students in the College of Engineering.

Credits 3.0

Prerequisites

MAT 1505 :Y :D- and (PHY 2400 :D- or PHY 2410 :D-)

Prerequisite Courses

MAT 1505

PHY 2400

PHY 2410

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PHY 2403: Phy Lab for Engineering

Selected experiments illustrating the principles of Mechanics and Electricity and Magnetism. Designed for students in the College of Engineering.

Credits 1.0

Prerequisites

PHY 2402 :Y :D-

Prerequisite Courses

PHY 2402

Corequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PHY 2410: University Phy:Mechanics

Vectors, kinematics, and dynamics of particles, rigid bodies, and fluids.

Recommended for Science majors.

Credits 3.0

Prerequisites

MAT 1500 :Y :D-

Prerequisite Courses

MAT 1500

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHY 2411: Lab: Mechanics

Selected experiments demonstrating the fundamental principles of Mechanics and Waves with emphasis on techniques of measurements and data analysis. Recommended for Science majors.

Credits 1.0

Prerequisites

Corequisites

PHY 2410

Corequisite Courses

PHY 2410

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHY 2412: Univ Physics:Elec & Mag

Electrostatics, DC circuits, magnetism, and AC circuits. Recommended for Science majors.

Credits 3.0

Prerequisites

(PHY 2410 :D- or PHY 2400 :D-) and MAT 1505 :Y :D-

Prerequisite Courses

PHY 2410

PHY 2400

MAT 1505

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PHY 2413: Lab:Elec & Magnetism

Recommended for Science majors.

Credits 1.0

Corequisites

PHY 2412

Corequisite Courses

PHY 2412

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PHY 2415: Lab: Thermodynamics

Selected experiments in heat, waves and optics.

Recommended for Science majors.

Credits 1.0

Corequisites

PHY 2414

Corequisite Courses

PHY 2414

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2021

PHY 2417: Lab:Modern Physics

Interference; Franck Hertz experiment; Photoelectric effect; Michelson interferometry; Millikan oil drop experiment; Electron Spin Resonance (ESR); Ferroelectricity; Superconductivity; Low Temperature physics experiments. Recommended for Science majors.

Credits 1.0

Prerequisites

PHY 2416 :Y :D-

Prerequisite Courses

PHY 2416

Last Offered

Fall 2025, Fall 2024, Spring 2023, Spring 2022

PHY 2420: Matter and Interactions I

Vectors, kinematics, and dynamics of particles, rigid bodies, and fluids. Recommended for Physics and Astronomy Majors.

Credits 3.0

Prerequisites

MAT 1500 :Y

Prerequisite Courses

MAT 1500

Last Offered

Fall 2025, Fall 2024

PHY 2421: Lab: Matter and Interactions I

Selected experiments demonstrating the fundamental principles of Mechanics and Waves with emphasis on techniques of measurements and data analysis. Recommended for Physics and Astronomy Majors.

Credits 1.0

Prerequisites

MAT 1500 :Y

Prerequisite Courses

MAT 1500

Corequisites

PHY 2420

Corequisite Courses

PHY 2420

Last Offered

Fall 2025, Fall 2024

PHY 2422: Matter and Interactions II

Electrostatics, DC circuits, magnetism, and AC circuits. Recommended for Physics and Astronomy Majors.

Credits 3.0

Prerequisites

(PHY 2420 or PHY 2410 or PHY 2400) and MAT 1505 :Y

Prerequisite Courses

PHY 2420

PHY 2410

PHY 2400

MAT 1505

Last Offered

Spring 2025

PHY 2423: Lab:Matter and Interactions II

Selected Experiments in Electricity and Magnetism.

Credits 1.0

Corequisites

PHY 2422

Corequisite Courses

PHY 2422

Last Offered

Spring 2025

PHY 2601: Computational Phy Lab I

Computer applications, data analysis and presentation, algorithms and programming, numerical methods, and basic graphics for Physics and Astronomy majors.

Prerequisite: Any Intro Physics course (may be taken concurrently).

Credits 2.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHY 2603: Computational Phy Lab II

Continuation of Computational Physics I.

Credits 2.0

Prerequisites

PHY 2601 :D-

Prerequisite Courses

PHY 2601

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PHY 3200: Thermo, Optics and Waves

Heat, kinetic theory of gases, first and second laws of thermodynamics, wave motion acoustics, geometrical and physical optics. Recommended for Science majors.

Credits 3.0

Prerequisites

(PHY 2410 :Y and PHY 2412) or (PHY 2400 and PHY 2402) or (PHY 2420 and PHY 2422) and MAT 1505

Prerequisite Courses

PHY 2410

PHY 2412

PHY 2400

PHY 2402

PHY 2420

PHY 2422

MAT 1505

Last Offered

Fall 2025, Fall 2024

PHY 3310: Electronics

DC and AC analysis including network theorems, power, resonance, filters, bridge circuits, amplifiers, integrated circuits, active devices, digital logic circuits and applications.

Credits 3.0

Corequisites

PHY 3311

Corequisite Courses

PHY 3311

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHY 3311: Electronics Lab

Laboratory experiments are chosen to supplement the Physics 3310 lectures and to give experience with sophisticated electronic equipment.

Credits 1.0

Corequisites

PHY 3310

Corequisite Courses

PHY 3310

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHY 3400: Modern Physics

Special theory of relativity, atomic theory, quantum physics, the Schrodinger equation, solid-state physics, nuclear physics, elementary particles and cosmology. Recommended for Science majors.

Credits 3.0

Prerequisites

(PHY 2410 and PHY 2412) or (PHY 2400 and PHY 2402) or (PHY 2420 and PHY 2422) and MAT 2500 :Y and MAT 2705 :Y

Prerequisite Courses

PHY 2410

PHY 2412

PHY 2400

PHY 2402

PHY 2420

PHY 2422

MAT 2500

MAT 2705

Last Offered

Spring 2025

PHY 4000: Elec & Magnetism I

Electrostatics, Coulomb's and Gauss' Laws, Maxwell's first two equations, Laplace's equation and boundary value problems, dielectrics, currents in conductors.

Credits 3.0

Prerequisites

(PHY 2414 :D- and PHY 4200 :D-)

Prerequisite Courses

PHY 2414

PHY 4200

Corequisites

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHY 4001: Elec & Magnetism I Lab

Selected experiments in the field.

Credits 1.0

Prerequisites

(PHY 2414 :D- and PHY 4200 :D-)

Prerequisite Courses

PHY 2414

PHY 4200

Corequisites

PHY 4000

Corequisite Courses

PHY 4000

Last Offered

Spring 2025, Spring 2024, Fall 2022, Spring 2021

PHY 4002: Elec & Magnetism II

Magnetism, Biot-Savart's law, Faraday's law, Maxwell's third and fourth equations, electromagnetic wave equation, radiation.

Credits 3.0

Prerequisites

PHY 4000 :D-

Prerequisite Courses

PHY 4000

Corequisites

PHY 4003

Corequisite Courses

PHY 4003

Last Offered

Spring 2025, Spring 2023,
Spring 2022, Spring 2021

PHY 4003: Elec & Magnetism II Lab

Selected experiments in the field.

Credits 1.0

Prerequisites

(PHY 4000 :D- and PHY 4001 :D-)

Prerequisite Courses

PHY 4000

PHY 4001

Corequisites

PHY 4002

Corequisite Courses

PHY 4002

Last Offered

Spring 2023, Fall 2021, Spring
2020, Spring 2019

PHY 4100: Mechanics I

Newtonian Mechanics, oscillations (simple, non-linear and driven), Lagrangian and Hamiltonian dynamics, central force motion and scattering, special theory of relativity.

Credits 3.0

Prerequisites

PHY 2414 :D-

Prerequisite Courses

PHY 2414

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

PHY 4102: Mechanics II

Dynamics of rigid bodies, coupled oscillations, wave phenomena, fluid mechanics (steady and turbulent flow, the equations of Euler and Navier-Stokes).

Credits 3.0

Prerequisites

PHY 4100 :D-

Prerequisite Courses

PHY 4100

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2021

PHY 4200: Mathematical Physics I

Vector and tensor analysis, matrices and determinants, infinite series, functions of a complex variable.

Credits 3.0

Prerequisites

(PHY 2414 :D- and MAT 2500 :D-)

Prerequisite Courses

PHY 2414

MAT 2500

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

PHY 4202: Mathematical Physics II

A continuation of PHY 4200; second order differential equations, orthogonal functions, integral transforms, integral equations.

Credits 3.0

Prerequisites

PHY 4200 :D-

Prerequisite Courses

PHY 4200

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2021

PHY 4301: Experimental Methods I

Introduction to experimental methods in Physics. Applications of spectroscopic techniques in nuclear, solid-state, and materials Physics. Detection of particle and electromagnetic radiation, signal processing, spectral analysis and interpretation.
Credits 2.0

Last Offered

Fall 2025, Fall 2024, Fall 2022, Fall 2020

PHY 4303: Experimental Methods II

Introduction to experimental methods in Physics continued: X-Ray and Mossbauer Spectroscopy; interaction of electromagnetic radiation with matter; resonant versus non-resonant scattering cross-sections; hyperfine interactions in solids, crystal field splittings and dynamic magnetic relaxation phenomena in nanoscale systems; introduction to nanotechnology. Course is Writing Intensive.
Credits 2.0

Last Offered

Spring 2021, Spring 2018, Spring 2017, Spring 2016

PHY 4400: Optics

Topics in optics including ray and wave optics, electromagnetic optics, polarization, statistical optics, optical systems.

Credits 3.0

Prerequisites

(PHY 2420 or PHY 2410 or PHY 2400) and (PHY 2422 or PHY 2412 or PHY 2402) and MAT 2705 :Y

Prerequisite Courses

PHY 2420
PHY 2410
PHY 2400
PHY 2422
PHY 2412
PHY 2402
MAT 2705

Last Offered

Fall 2025

PHY 4801: Experimental Physics I

Introduction to advanced experimental physics.

Credits 2.0

PHY 4803: Experimental Physics II

Continuation of Experimental Physics I

Credits 2.0

PHY 5100: Quantum Mechanics

Operators, Schrodinger Equation, one dimensional problems, harmonic oscillator, angular momentum, hydrogen atom, scattering theory.

Credits 3.0

Prerequisites

PHY 4100 :D- and PHY 4200 :D-

Prerequisite Courses

PHY 4100
PHY 4200

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHY 5200: Thermo/Statistical Mech

Statistical methods, statistical thermodynamics, Ensembles, Partition functions. Quantum statistics. Kinetic theory of transport processes.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2022, Spring 2021

PHY 5300: Subatomic Physics

Structure of subatomic particles and nuclei, symmetries and conservation laws, interactions and nuclear models, radioactivity and passage of radiation through matter. A writing intensive course.

Credits 3.0

Last Offered

Spring 2024, Spring 2022, Spring 2021, Spring 2020

PHY 5500: Solid State Physics I

Description of crystal structure, diffraction of X-rays, classification of solids, thermal properties of solids, dielectric properties, diamagnetism and paramagnetism, free electron theory of metals, band theory of solids.

Credits 3.0

Prerequisites

PHY 2416

Prerequisite Courses

PHY 2416

Last Offered

Spring 2024, Fall 2020, Spring 2019, Spring 2015

PHY 5801: Research Experience I

An introduction to independent research in Physics.

Credits 3.0

Prerequisites

PHY 4803

Prerequisite Courses

PHY 4803

PHY 5803: Research Experience II

A continuation of Research Experience I.

Credits 3.0

Prerequisites

PHY 5801

Prerequisite Courses

PHY 5801

PHY 6000: Photonics and Quantum Optics

Selected topics in the fields of photonics and quantum optics.

Credits 3.0

Last Offered

Fall 2019, Spring 2017, Spring 1999

PHY 6400: General Relativity

Introduction to Einstein's Theory of General Relativity. Differential geometry, equivalence principle, geodesics, and the Einstein equations. Applications to black holes, gravitational waves, and cosmology.

Credits 3.0

Prerequisites

(PHY 4100 :D- and PHY 4200 :D-)

Prerequisite Courses

PHY 4100

PHY 4200

Last Offered

Spring 2025, Spring 2023, Spring 2022, Spring 2020

PHY 6450: Supervised Study in Physics

Reading and/or laboratory work in a selected branch of physics under the direction of a member of the staff. Restricted to the Permission of the Instructor.

Credits 1.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PHY 6500: Supervised Study in Physics

Reading and/or laboratory work in a selected branch of physics under the direction of a member of the staff.

Credits 2.0

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

PHY 6600: Supervised Study in Physics

Same as PHY 6500 with increased number of hours.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PHY 6900: Topics in Physics

Lecture course in an area of Physics. May be repeated for credit if topics are different.

Credits 3.0

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2019

Political Science

PSC 1100: American Government

Constitutional development; national institutions, federalism, civil rights and liberties; instruments of popular control. Pre-requisite for 2100 and 5100-level courses and PSC 6900.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSC 1200: International Relations

Theories and concepts in the study of international relations; important and enduring questions in world affairs; trends and changes in the post-Cold War and post-9/11 world. Prerequisite for 2200 and 5200-level courses and PSC 6900.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSC 1300: Comparative Politics

Political dynamics of various countries and regions. Regime types and political institutions. Politics of inclusion and exclusion. Sources of political change and continuity. Pre-requisite for 2300 and 5300-level courses and PSC 6900.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSC 1400: Political Theory

A survey of early and modern political thought and its relevance to contemporary politics. Prerequisite for 2400 and 5400-level courses and PSC 6900.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSC 1900: Research Seminar

Covers elements required for writing research paper on a problem in political science, including using the library, evaluating and properly citing sources, understanding appropriate research methods, and writing and redrafting a research paper. Prerequisite for PSC 6900.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSC 2110: U.S. State & Local Government

Constitutions, institutions, instruments of popular control, and intergovernmental relations.

Credits 3.0

Prerequisites

PSC 1100

Prerequisite Courses

PSC 1100

Last Offered

Spring 2023, Fall 2022, Fall 2020, Spring 2015

PSC 2120: U.S. Congress

Congressional functions, structures, and procedures; distribution of power; elections, representation, parties, committees, and the legislative process. Relations with the President, executive bureaucracy, judiciary, and interest groups. Congress's role in the economy, budgeting, domestic policy, and national security policy.

Credits 3.0

Prerequisites

PSC 1100

Prerequisite Courses

PSC 1100

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

PSC 2125: U.S. Presidency

The nature, functions, and development of the American presidency, including relations between the president and other Washington actors, the public and the press.

Credits 3.0

Prerequisites

Last Offered

Fall 2023, Fall 2020, Fall 2016, Fall 2014

PSC 2130: U.S. Judiciary

Historical overview of the Supreme Court; competing perspectives on judicial behavior; and patterns in the relationship between the Court and other branches of the federal government.

Credits 3.0

Prerequisites

PSC 1100

Prerequisite Courses

PSC 1100

Last Offered

Spring 2021, Spring 2019, Fall 2017, Spring 2016

PSC 2140: US Con Law I: Powers&Struct

Major Supreme Court cases concerning the powers of Congress and the president, federalism, commerce taxing, and voting.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Summer 2023, Fall 2022, Summer 2022

PSC 2145: US Con Law II: Rights&Lib

Major Supreme Court decisions, 1789 to the present, concerning provisions of the Bill of Rights and the Fourteenth Amendment; emphasis on constitutional literacy

Credits 3.0

Prerequisites

Last Offered

Spring 2024, Summer 2022, Spring 2022, Summer 2021

PSC 2150: U.S. Pol. Parties & Elections

The place of parties in national politics; the nature, organization, and functions of political parties; suffrage requirements and election methods; the activities of organized interests.

Credits 3.0

Prerequisites

PSC 1100

Prerequisite Courses

PSC 1100

Last Offered

Fall 2020, Fall 2019, Spring 2019, Spring 2017

PSC 2180: U.S. National Security Policy

Development of strategic thought in the United States, arms control and disarmament, intelligence, technology, alliance policy, role of civilian and military branches of government, and related topics.

Credits 3.0

Prerequisites

Last Offered

Fall 2022, Fall 2015

PSC 2190: U.S. Pub Opinion & Polit Behav

The normative and empirical roles of public opinion and civic involvement in American democracy; conceptual and measurement issues, individual-level and societal factors influencing public opinion and political behavior.

Credits 3.0

Prerequisites

PSC 1100

Prerequisite Courses

PSC 1100

Last Offered

Fall 2021, Fall 2019, Fall 2017, Fall 2015

PSC 2210: Globalization

Transformation of international politics through diffusion of ideas, technology, migration, capital and markets. Globalization, diffusion, and interactions of ideas, technology and capital. Effects on domestic and international politics, economics, society.

Credits 3.0

Prerequisites

PSC 1200

Prerequisite Courses

PSC 1200

Last Offered

Spring 2023, Spring 2022, Fall 2020, Fall 2019

PSC 2220: International Law

The rules and principles of international law based on a study of treaties, diplomatic practice, and cases dealt with by international and national courts.

Credits 3.0

Prerequisites

PSC 1200

Prerequisite Courses

PSC 1200

Last Offered

Spring 2025, Spring 2024, Fall 2022, Fall 2021

PSC 2230: International Organization

The development of international organization, the U.N., its principles, structure, and accomplishments; regional organizations; prospects for the future.

Credits 3.0

Prerequisites

PSC 1200

Prerequisite Courses

PSC 1200

Last Offered

Fall 2025, Fall 2024, Fall 2022, Fall 2021

PSC 2235: United Nations

The origin, mission, structure, and current challenges of the United Nations. Analysis of the role of the UN in peace and security, human rights, humanitarian affairs, development, and environmental issues.

Credits 3.0

Prerequisites

PSC 1200

Prerequisite Courses

PSC 1200

Last Offered

Fall 2024

PSC 2240: Internat'l Political Economy

Interactions between domestic, comparative and international politics and economics. Institutions, ideas and power dynamics in trade, finance, and development. The movement of labor, goods, services, and capital across national boundaries.

Credits 3.0

Prerequisites

PSC 1200

Prerequisite Courses

PSC 1200

Last Offered

Fall 2021, Fall 2020, Spring 2015

PSC 2245: Politics of Financial Crisis

Political economy of financial crises from both a domestic and international perspective. Topics covered include: (ir)rationality of financial markets and actors; consequences of global capital flows; sovereign debt crises; global imbalances and macroeconomic adjustment; vulnerability to banking crises; political causes and responses to global financial crises

Credits 3.0

PSC 2260: War and Conflict

Causes of interstate war, laws and norms of war, nuclear proliferation and deterrence, terrorism, civil war, territorial disputes, religion and conflict, and humanitarian and military intervention and peacekeeping.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2019, Fall 2018, Spring 2018

PSC 2340: Politics of the Arab World

Political change in the principal Arab States with emphasis on the diverse forms of rule and political movements. The impact of colonial rule and socioeconomic changes on political life, leadership, social structure, political culture, and modernization.

Credits 3.0

Prerequisites

PSC 1300

Prerequisite Courses

PSC 1300

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2021

PSC 2350: African Politics

Politics and societies of contemporary Africa. Colonialism and its legacies. Postcolonial regimes; authoritarianism, neo-patrimonialism and "big man" rule; political reform and democratization. Theories of conflict and conflict resolution. Economic development: International and domestic explanations of poverty and underdevelopment; the HIV crisis

Credits 3.0

Prerequisites

PSC 1300

Prerequisite Courses

PSC 1300

Last Offered

Fall 2023, Spring 2022, Fall 2020, Spring 2020

PSC 2360: Latin American Politics

Politics and societies of contemporary Latin America. Legacies of social revolution and authoritarian rule; democratic transition and consolidation; market reforms and their consequences. Democratic representation; the resurgence of the political left; identity politics (race/ethnicity, inclusion and exclusion). US-Latin American relations: immigration, trade, energy, and security policies.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2024, Spring 2023, Fall 2022

PSC 2380: European Politics

European political institutions, changes in party systems, and impact of European integration/globalization on domestic economies.

Credits 3.0

Prerequisites

PSC 1300

Prerequisite Courses

PSC 1300

Last Offered

Spring 2022, Fall 2021, Spring 2021, Fall 2016

PSC 2410: Early Political Theories

The relevance of the classics of political thought for understanding modern politics from the Greeks to the modern era.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Fall 2024, Spring 2024, Spring 2023

PSC 2420: Modern Political Theories

The structure of modern political thought and developments of twentieth century political thought as an aid to understanding our age.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Fall 2023, Fall 2022, Spring 2022

PSC 3130: Women and Politics in the U.S.

Why women traditionally have been marginal to political life; the efforts of women in the past and today to change that fact; the problems that must be solved before women can translate their numerical strength into political power.

Credits 3.0

Last Offered

Fall 2024, Spring 2015

PSC 3140: Race, Ethnicity & Pol. in U.S.

The importance of race and ethnicity in American politics, and the politics (historical, legal, attitudinal, and behavioral) of four of the United States' principal racial and ethnic minority groups—blacks (African-Americans), Latinos, Asians, and Native Americans.

Credits 3.0

Last Offered

Spring 2023, Spring 2021, Fall 2020, Spring 2019

PSC 3150: Political Psychology

The interplay between politics and psychology; principles, terminology, and methods of psychological theories to understand how people think and feel about politics and how politics affects their thinking.

Credits 3.0

Last Offered

Spring 2022, Spring 2020,
Spring 2017, Spring 2015

PSC 3160: Black Politics

This course is designed to provide students with an overview of Black Politics and introduce several theories, approaches, and analyses. The course also examines the two of the most salient forms of Black Politics: protest activity and conventional electoral politics.

Credits 3.0

Last Offered

Spring 2025, Fall 2023, Fall 2022, Spring 2022

PSC 3165: Pol Econ of Black America

The Political Economy of Black America examines the complex interplay between race & economics and the principles, terminology, and methods of standard economics and Black political economy.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring 2023, Spring 2022

PSC 3210: American Foreign Policy

The institutions, processes, and ideas which shape contemporary American foreign policy; the major problem areas.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

PSC 3220: Middle East International Rels

Intra-regional and international problems facing the Middle East: the struggle for independence; the impact of the Cold War; the protracted conflict between Israelis and Arabs; and the tensions in the oil-rich Persian Gulf.

Credits 3.0

PSC 3230: Development and Aid

Development and the role of official development assistance. Includes aid effectiveness, modalities, impact of globalization, conflation of aid with strategic purpose, and rising influence of non-traditional donors, such as China and oil-exporting countries.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PSC 3235: Refugees and Displaced People

The current situation and major themes and challenges for protecting and assisting the refugees and internally displaced persons. Global, comparative analysis of institutional and legal framework for both populations.

Credits 3.0

Prerequisites

PSC 1200

Prerequisite Courses

PSC 1200

PSC 3245: Japanese Politics

Uniqueness of previous and contemporary politics, economy, and cultural society of Japan. Study of modernization, the defeat of and recovery from World War II, pacifism, legal and institutional developments, and current challenges of Japan.

Credits 3.0

Prerequisites

PSC 1300

Prerequisite Courses

PSC 1300

PSC 3250: Genocide and Mass Killing

Definitions of genocide and mass killing, causes of genocide and mass killing, contexts in which violence occurs, dynamics of violence, variations in violence, individual motivations of perpetrators, rescue and resistance, obstacles and opportunities for intervention and prevention, tribunals and truth commissions.

Credits 3.0

Last Offered
Spring 2021

PSC 3255: Gender, War, and Peace

Global conflict and peace through gender lens; impact of war on women, men and non-binary genders and respective roles in peace and post-conflict politics. Topics include masculinity and war, sexual and gender-based violence, LGBT politics. Key focus on Northern Ireland.

Credits 3.0

PSC 3260: Global Pandemics Politics

Political factors that lead to pandemics, political outcomes of pandemics, how pandemics affect political development and international relations.

Credits 3.0

Last Offered
Spring 2024

PSC 3265: Global Environmental Politics

Course description: the politics of environmental movements, policy and voting, comparative and international relations factors driving environmental outcomes, civil society and its relationship to government.

Credits 3.0

Last Offered
Spring 2025

PSC 3320: Russian Politics

The contemporary Russian political system; political transformation from the Communist system which preceded it.

Credits 3.0

Last Offered
Fall 2023, Spring 2022, Spring 2021, Fall 2019

PSC 3330: British Politics

Development of the British state; the powers of Parliament and other institutions; the British welfare state, public opinion, and policing; questions of union and devolution; major current topics in British politics.

Credits 3.0

Last Offered
Spring 2025, Spring 2024, Spring 2023, Spring 2022

PSC 3340: Irish Conflict and Peace

Foundations of the Irish state; political system and party system development; conflict in Northern Ireland; relations within the divided island and between the Irish Republic and Britain; Irish social, political cultural and economic development; gender in Irish society and politics; Ireland in the international political system.

Credits 3.0

Last Offered
Spring 2025, Spring 2023, Spring 2020, Spring 2019

PSC 3410: Theories of War and Peace

The relevance of the classics of political thought for understanding modern politics from the Greeks to the modern era.

Credits 3.0

Last Offered
Fall 2024, Fall 2023, Fall 2022, Summer 2022

PSC 3440: Politics and Religion

The nature of religious and political identity; the possibility and desirability of keeping them apart; the relationship between religion and politics in a free society; religious pluralism, its requirements and consequences; the prospects for "civil religion."

Credits 3.0

Last Offered
Fall 2024, Spring 2023, Fall 2020, Fall 2018

PSC 3501: Global Topics Abroad Wkshp

Must enroll in (3-credit course) as co-requisite; required for embedded course.

Credits 1.0

Last Offered

Spring 2024

PSC 4175: Topics in Am Gov & Politics

Topical courses in American Government and Politics offered on occasional basis.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSC 4275: Topics in Internat'l Relations

Topical courses in International Relations offered on occasional basis.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

PSC 4375: Topics in Comparative Politics

Topical courses in comparative politics offered on occasional basis.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

PSC 4475: Topics in Political Theory

Topical courses in political theory offered on an occasional basis.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Spring 2021, Fall 2019

PSC 5110: Ind Study in Am Gov & Politics

Readings, research, and writing on topics in American government and politics under faculty supervision. Pre-requisite: permission of instructor and department chair.

Credits 3.0

Prerequisites

PSC 1100

Prerequisite Courses

PSC 1100

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

PSC 5210: Ind Study in Intern'l Rel

Readings, research, and writing on topics in international relations under faculty supervision. Pre-requisite: permission of instructor and department chair.

Credits 3.0

Prerequisites

PSC 1200

Prerequisite Courses

PSC 1200

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

PSC 5310: Ind Study in Comparative Pol

Readings, research, and writing on topics in comparative politics under faculty supervision. Pre-requisite: permission of instructor and department chair.

Credits 3.0

Prerequisites

PSC 1300

Prerequisite Courses

PSC 1300

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

PSC 5410: Ind Study in Political Theory

Readings, research, and writing on topics in political theory under faculty supervision. Pre-requisite: permission of instructor and department chair.

Credits 3.0

Prerequisites

PSC 1400

Prerequisite Courses

PSC 1400

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

PSC 6160: Washington Minimester

A three-week program of seminars in Washington, D.C. with public officials, staff members, party leaders, and interest group representatives. Held annually in mid-May. Enrolls the previous fall. Limit: 15 students. Permission of instructor required.

Credits 3.0

Last Offered

Summer 2025, Summer 2024,
Summer 2023, Summer 2022

PSC 6503: Internship Elective

Internship.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

PSC 6900: Political Sci Seminar

Capstone seminar on specialized topics in political science.

Credits 3.0

Prerequisites

PSC 1100 and PSC 1200 and
PSC 1300 and PSC 1400 and
PSC 1900

Prerequisite Courses

PSC 1100
PSC 1200
PSC 1300
PSC 1400
PSC 1900

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

Psychological and Brain Sciences

CBN 4000: Cell & Behavioral Neuroscience

Neuronal mechanisms of behavior: Molecular and cellular processes, neural plasticity, sensory encoding, optogenetics, psychopharmacology.

Credits 3.0

Prerequisites

PSY 4200

Prerequisite Courses

PSY 4200

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

CBN 4100: Cognitive Neuroscience

Theory and research on the neural and cognitive processes that support higher-level cognition, such as memory, attention, judgment & decision making, perception, language, emotion.

Credits 3.0

Prerequisites

PSY 4500

Prerequisite Courses

PSY 4500

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CBN 5000: Seminar in Neuroscience

Seminar exploring selected contemporary issues in neuroscience with a focus on cognitive and behavioral processes. Capstone experience for advanced (senior) CBN majors.

Credits 3.0

Prerequisites

CBN 4000 and CBN 4100 :Y

Prerequisite Courses

CBN 4000

CBN 4100

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

CBN 5900: Undergraduate Research in CBN

Supervised research project and report. Student may register for CBN 5900 more than once; however, only 3 hours of research can be applied toward the degree requirements in cognitive and behavioral neuroscience.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

CBN 6001: Thesis Research I

Library and/or Laboratory Research under CBN-affiliated faculty mentor. Requires successful application as CBN junior, permission of faculty mentor, department chairperson, and major GPA >3.0. Culminates in a literature review and research proposal. CBN 6001 credit toward major requires completion of CBN 6002.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CBN 6002: Thesis Research II

Continuation of Thesis Research I. Laboratory Research under CBN-affiliated faculty member mentoring student in Thesis Research I. Culminates in a written thesis.

Credits 3.0

Prerequisites

CBN 6001

Prerequisite Courses

CBN 6001

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

MSE 2701: PSY:The Sounds of Human Lang.

Sounds of spoken language and how they are perceived by human listeners including speech production and perception, phonetics, and language development and disorders. Laboratories include acoustic analysis, experimental design, hypothesis testing, and data analysis.

Credits 4.0

Last Offered

Fall 2023, Fall 2022, Fall 2020, Fall 2019

MSE 2702: PSY:Neuroscience of Sleep

Neuroscience of Sleep.

Credits 3.0

Corequisites

MSE 2752

Corequisite Courses

MSE 2752

Last Offered

Spring 2025, Fall 2023, Fall 2021, Spring 2021

MSE 2752: PSY:Neuroscience of Sleep Lab

Neuroscience of Sleep Lab.

Credits 1.0

Corequisites

MSE 2702

Corequisite Courses

MSE 2702

Last Offered

Spring 2025, Fall 2023, Fall 2021, Spring 2021

PSY 1000: General Psychology

Introductory examination of the fundamental concepts of psychology, with particular emphasis on the description of normal human behavior and those factors that underlie it. Prerequisite to all other courses in psychology.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSY 1001: Intro to Brain and Behavior

Examination of fundamental concepts in psychology with special emphasis on underlying neural mechanisms. Satisfies same pre-requisite requirements as PSY 1000 and is the preferred introductory psychology course for CBN majors. Cannot receive credit for both PSY 1000 and PSY 1001.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PSY 2000: Intro Statistics

Basic concepts, assumptions, and applications of descriptive statistics and inferential statistics.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSY 2050: Research Methods in Psy.

Introduction to the reading, design, and reporting of psychological research. Writing intensive.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSY 2100: Sem Professional Development

Overview of ethical and professional issues in psychology.

Credits 1.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PSY 2150: Undergrad Research Experience

Supervised research experience. Students may register for PSY 2150 more than once.

Credits 1.0

Prerequisites

PSY 1000 or PSY 1001 or HON 1811

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

PSY 2400: Cross- Cultural Psychology

Theory and research on cultural influences on human diversity in behavior and psychological processes.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

PSY 2450: Psychology of Gender

Sexism in psychological research & theory; gender stereotyping & discrimination; psychological theories of gender; women's physical & mental health, female sexuality & lifespan development; sexual orientation; victimization of women; biological influences on women's experiences.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Spring 2023, Fall 2022, Spring 2022, Fall 2017

PSY 2700: Industrial/ Organizational Psy

Applications of psychological data, theories, research methods, and testing procedures to individuals in organizational settings.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2022

PSY 2800: Human Factors

Application of theories of human performance (perception, cognition, and motor control) to the design of products and systems.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2020, Fall 2019, Spring 2015, Spring 2014

PSY 2900: Special Topics

An intensive examination of selected topical areas within psychology.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSY 2901: Special Topics Laboratory

Laboratory course corresponding to a special topics course. May be required for a particular topics course.

Credits 1.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

PSY 2905: Special Topics Seminar

Selected topics in memory improvement, time management, stress management, interpersonal communication, etc. Open to all Majors. Only three 1-credit seminars may be applied toward graduation. Cannot be used to fulfill Psychology electives.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Fall 2023

PSY 2993: Psychology Internship

Supervised work experience in agency, hospital, school, or company. Minimum 3.0 G.P.A., Psychology major. Permission of instructor. Apply in Psychology Department office. Cannot be used to fulfill Psychology electives. Graded S/U.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSY 3200: Human Development

Theory and research on social/ personality, physical, and cognitive/intellectual changes from infancy through old age.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSY 3300: Perception

Theory and application of sensory and perceptual processes such as distance perception, color vision, illusions and deafness.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSY 3500: Psych of Personality

Theories, dynamics, and structure of personality. Students cannot receive credit for this course and PSY 4700.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSY 3600: Social Psychology

Survey of theory and research on altruism, attraction, social cognition, the self, attitudes and attitude change, social influence, affiliation, personal control, and aggression.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PSY 3700: Psychopathology

Classification, etiology, and treatment of mental and behavioral disorders with emphasis on contemporary theory and research.

Credits 3.0

Prerequisites

(PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-) and PSY 2050 :Y :D-

Prerequisite Courses

PSY 1000

PSY 1001

PSY 2050

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSY 3800: Clinical Psychology

Fundamental concepts, basic areas of professional functioning, and contemporary issues in the mental health field.

Credits 3.0

Prerequisites

(PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-) and PSY 2050 :D-

Prerequisite Courses

PSY 1000

PSY 1001

PSY 2050

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSY 4200: Biopsychology

Theoretical and laboratory examination of basic neural and hormonal processes underlying behavior. Restricted to PSY Majors.

Credits 3.0

Prerequisites

(PSY 2000 :Y and PSY 2050) or (PSY 2000 and PSY 2050 :Y)

Prerequisite Courses

PSY 2000

PSY 2050

PSY 2000

PSY 2050

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSY 4500: Cognitive Psychology

Theory and research on human learning, memory, and cognitive processes. Restricted to PSY/CBN majors Writing intensive

Credits 3.0

Prerequisites

(PSY 2000 :Y :D- and PSY 2050 :D-) or (PSY 2000 :D- and PSY 2050 :Y :D-)

Prerequisite Courses

PSY 2000

PSY 2050

PSY 2000

PSY 2050

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSY 4600: Animal Learning & Cognition

Basic principles and problems of psychological, Cognitive mechanisms responsible for simple behavior, measurement in the assessment of behavior., and behavioral change as they have been studied using, animal subjects

Credits 3.0

Prerequisites

(PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-) and PSY 2000 :Y :D-

Prerequisite Courses

PSY 1000

PSY 1001

PSY 2050

Last Offered

Fall 2025, Fall 2023, Spring 2021, Spring 2018

PSY 5150: Foundations of Modern Psych

Overview of the major concepts and theories of psychology presented in a historical context.

Credits 3.0

Prerequisites

(PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-) and PSY 2000 :D- and PSY 2050 :D-

Prerequisite Courses

PSY 1000

PSY 1001

PSY 2000

PSY 2050

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSY 5250: Contemp Research Issues in Psy

Recent and emerging topics, issues, and methods in psychological science.

Credits 3.0

Prerequisites

(PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-) and PSY 2000 :D- and PSY 2050 :D-

Prerequisite Courses

PSY 1000

PSY 1001

PSY 2000

PSY 2050

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PSY 5900: Independent Research Project

Supervised research project and report. Student may register for PSY 5900 more than once; however, only 3 hours of research can be applied toward the degree requirements in psychology.

Credits 3.0

Prerequisites

PSY 1000 :D- or PSY 1001 :D- or HON 1811 :D-

Prerequisite Courses

PSY 1000

PSY 1001

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

Public Administration

PA 1050: Public Administration

Administrative politics, law, and ethics, organizational theory and technical fields, such as budgeting, planning, and personnel.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PA 2000: Public Policy

Theories of public policy making, national public policies, and contemporary issues.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

PA 2100: City and Suburb

Politics and problems in metropolitan areas of the United States.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

PA 3000: Overview of Non-Profit Sector

Examination of the size, scope, central activities, and public impact of the nonprofit sector in the U.S. and abroad. Exploration of current trends and career opportunities in the nonprofit sector.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Spring 2023

PA 4100: Public Budgeting

How government and nonprofits raise revenue, engage in the budgeting process, and use budgets to manage in the public sector.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

PA 4200: Organizational Development

Evaluation of human capital initiatives, marketing and communication strategies, and service delivery in government and nonprofit organizations.

Credits 3.0

Last Offered

Spring 2025, Summer 2024, Spring 2024, Spring 2023

PA 4500: Research Methods in Public Svc

Overview of the purpose of research, research inquiry and the roles of qualitative and quantitative research, purpose, intent, design, methodology and technique, format and presentation, and data management and analysis.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023

PA 5000: Special Topics

Special topics in public administration.

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2022, Spring 2018

PA 5100: Independent Study

Individual students with specific interests in public administration work on a tutorial basis with an appropriate professor.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

PA 6000: Vocation of Public Service

The exploration of the concept of public service as a "vocation"

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Spring 2023

PA 6100: PSA Internship

Supervised work opportunity to explore public service professional interests and gain experience in the public or nonprofit sector. Prerequisite: Approval from the Chair of the Department of Public Administration.

Credits 3.0

Prerequisites

PA 1050 :Y or PA 2000 :Y

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

PA 6200: Special Topics Course

Provides students with opportunity to take a course in an additional area of focus in the field of public service.

Credits 3.0

PA 6201: Social Impact internship

Supervised internship offers practical experience and exploration of professional interests in public service within various public or nonprofit sector programs. Prerequisite Approval from the Chair of the Department of Public Administration.

Credits 3.0

Prerequisites

PA 1050 :Y or PA 2000 :Y

Romance Languages and Literatures

RLL 1000: Special Studies

Studies in one of the areas not included in the languages, literatures and civilizations usually offered, e.g., Polish, Romanian and Ukrainian; readings and discussions.

Credits 3.0

RLL 2221: Latinx Cultural Studies

The purpose of this course is to examine the experiences of different Latino communities living in the United States (Puerto Rican, Cuban, Dominican and Mexican) through literature, film, music, art and popular culture. Topics to be discussed include experiences of migration, identity formation and negotiation in terms of race, gender, sexuality and class, bilingualism and code switching, and marketing geared toward the Latino community.

Credits 3.0

RLL 3412: Topics

Advanced study of topics of special interest in Italian, French or Spanish literary and/or cultural studies. May be repeated for credit if topic changes. Taught in English.

Credits 3.0

Last Offered

Fall 2024, Spring 2022, Fall 2021, Spring 2021

Service Learning

SL 1000: Serv Learning 4th Hour Seminar

Service-Learning Seminar is a requirement for students in the Sophomore Service-Learning Community. Through the integration of knowledge, and experience through weekly service, students dialogue to critically reflect on the systemic issues and cultural narratives that affect the communities in which they serve. Restricted to Sophomore Service-Learning Community

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

Social Sciences

SCSC 1975: Business in Society

Political, economic, social context of business. Intercultural competence and contemporary affairs in global society. Preparation for Global Citizens Program internship experience. Must be enrolled in Global Citizens Program

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

Sociology & Criminology

CRM 1001: Introduction to Criminology

The nature and extent of crime; the factors related to criminal behavior; theories of the treatment and control of offenders; crime prevention programs.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CRM 3001: Justice and Society

This course presents an overview of the criminal justice system. It focuses on the nature, operation and critical issues of law enforcement, the courts and corrections.

Credits 3.0

Last Offered

Spring 2025, Fall 2024, Spring 2024, Fall 2023

CRM 3100: Juvenile Delinquency

Meaning and scope of delinquency; delinquency theories; role of social institutions and social agencies; prevention, control, and treatment programs.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2020

CRM 3200: Police & Society

Police are the gatekeepers of the criminal justice system - their decisions and actions can have enormous consequences for people's lives. But these decisions are not made mechanically by a simple application of criminal statutes. Rather police are empowered with discretion. The course will examine the police role in contemporary society, the nature of police discretion, and how discretion is exercised in the handling of individual cases.

Credits 3.0

Last Offered

Spring 2025, Fall 2020, Spring 2015, Spring 2014

CRM 3300: Criminal Courts

This is a comprehensive introduction to the U.S. criminal court system. It provides an overview of the stages of the criminal process. It examines critical issues surrounding each stage and the roles of the prosecutor, defense attorney and judge.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CRM 3330: Sociology of Law

The meaning, origin and impact of law viewed from several sociological perspectives; the law in action and the social context of legal professions.

Credits 3.0

Last Offered

Fall 2021, Fall 2016, Fall 2015, Fall 2014

CRM 3350: The Supreme Court

This course examines the factors which influence the decision to charge a person with a crime, public policy considerations relating to restraints on law enforcement and the property and wisdom of some established rules of law. Supreme Court decisions affecting the criminal process will be discussed.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

CRM 3400: Punishment and Society

Survey of the historical and contemporary treatment of convicted offenders; analysis of the prison social system; analysis of the theory, practice and function of correctional programs.

Credits 3.0

Last Offered

Fall 2023, Fall 2022, Fall 2021, Fall 2020

CRM 3600: Wrongful Convictions

Analyzes systemic problems in criminal legal system that give rise to wrongful convictions. Topics include false confessions, unreliable eyewitness identifications, law enforcement corruption/misconduct, informants, flawed coverage, and ineffective assistance of counsel.

Credits 3.0

CRM 3700: White Collar Crime

White collar crimes are committed by professionals for the benefit of individuals or organizations. This course examines the nature and magnitude (cost in dollars and lives) of white collar crime. Sociological theories explaining the commission of "crime in the suites" and society's response will be discussed."

Credits 3.0

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2019

CRM 3850: Drugs and Society

History of drug use and drug laws; relationship between drug use and crime; drug offenses and the criminal justice system; treatment and prevention issues.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

CRM 3900: Race, Crime, and Justice

Racial and ethnic disparities in crime and justice both reflect and contribute to social injustice. Theories and research provide insight about individual biases and structural racism that are evident in criminal justice practices, policies, and institutions.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2022, Fall 2021

CRM 4000: Special Top In Criminology

This course investigates special topics or emerging issues within criminology. Topics are selected for their importance or the expertise of the instructor.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CRM 4300: Crime/Delinquency Prevention

Evidenced-based analysis of strategies to prevent/reduce crime and delinquency. Topics include theory and evaluation research; strategies with schools, early childhood, parenting, peers and gangs, juvenile substance use; policies in juvenile, policing, corrections; and implementation science and social justice.

Credits 3.0

CRM 4400: Queer Criminology

Overview of field of queer criminology, a subdiscipline of criminology that focuses on the experiences of LGBTQIA+ people within the criminal legal system (e.g.,) as victims, perpetrators, and subjects of state control), and on employing queer methodological approaches and perspectives.

Credits 3.0

CRM 5000: Criminology Independent Study

Supervised research project which results in a major research paper.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CRM 5100: Criminological Theory

The nature of criminological theory and the major theoretical developments that have shaped criminology.

Credits 3.0

Prerequisites

CRM 1001 or CRJ 3000

Prerequisite Courses

CRM 1001

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

CRM 6003: Internship

Supervised work experience in a criminal justice agency.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

CRM 6500: Senior Seminar

This course focuses on a particular substantive area and integrates criminological theory and research methodology.

Credits 3.0

Prerequisites

(CRM 5100 and SOC 5300 and SOC 5400)

Prerequisite Courses

CRM 5100

SOC 5300

SOC 5400

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SOC 1000: Intro to Sociology

Introduction to the analysis of social behavior, emphasis on socialization, collective and group behavior.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

SOC 1500: Social Problems

Significant problems of American society; the sociocultural basis of social problems, the conditions facilitating their incidence, and approaches to therapeutic intervention.

Credits 3.0

Last Offered

Spring 2023, Summer 2022, Spring 2022, Summer 2021

SOC 2200: Sociology of Deviance

A sociological examination of rule-breaking behavior; causal theories of deviance; types of deviance and their distribution in contemporary society.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Spring 2023, Fall 2022

SOC 2300: Sociology of the Family

Institutional organization of mate selection, courtship, and marriage relationships in American society; family relationships and functions; family disorganization and change.

Credits 3.0

Last Offered

Spring 2025, Fall 2023, Fall 2022, Fall 2021

SOC 2400: Sociology of Social Work

History and development of social welfare; basic issues in social welfare planning and administration. The major methods of social work, practice; social casework, group work and community organization, in such areas as child welfare, family service and counseling, probation and corrections.

Credits 3.0

Last Offered

Fall 2021, Spring 2021, Spring 2020, Fall 2019

SOC 2993: Internship

Internship

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

SOC 3300: Sociology of Law

The meaning, origin, and impact of law viewed from several sociological perspectives; the law in action and the social context of legal professions.

Credits 3.0

Last Offered

Fall 2025, Fall 2023, Fall 2022, Spring 2021

SOC 3400: Health, Medicine & Society

This course explores the social dimensions of health, disease and illness, focusing especially on the social determinants of disease, the social experience of illness, and the role and meaning of medicine and public health in modern U.S. society. The class examines how we define health problems and their solutions, and it considers the ways in which factors such as race, gender and class, and social connections affect health.

Credits 3.0

Last Offered

Fall 2024, Spring 2024, Spring 2023, Fall 2022

SOC 3450: Soc of Mental Health & Illness

Examination of mental health and illness in social and historical context; different frameworks for understanding mental illness (e.g. psychological, biomedical, and sociological); social meanings, definitions, and determinants of mental illness; approaches to treatment; and the various ways in which the mentally ill (and/or those labelled as mentally ill) have been marginalized in society.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

SOC 3500: Sociology of Gender

Exploration of gender as a social construct shaped by social structures and cultural norms; focus on intersections of gender with other axes of inequality including race/ethnicity, social class, sexuality, and citizenship.

Credits 3.0

Last Offered

Spring 2024, Spring 2023, Fall 2022, Fall 2021

SOC 3600: Sociology of Race & Racism

Development of race and ethnic relationships in America; the impact of power-conflict relations on race and ethnic patterns; particular attention given to development from early 1950's to present.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SOC 3700: Urban Sociology

The nature of the city; history of urban settlement; urban form; institutions, organizational structures and processes; major problems of living in urban America.

Credits 3.0

Last Offered

Fall 2024, Fall 2020, Spring 2020, Spring 2019

SOC 3800: Social Movements

The sociological study of social movements, including mobilization, participation, tactics, goals and ideology; the social contexts in which movements arise and develop; the nature and influence of historical and contemporary movements and activism.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SOC 4000: Special Topics

Topics addressing special or emerging interests, chosen for their current importance and the specific expertise of an instructor.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Spring 2024, Fall 2023

SOC 4100: Sociology of Migration

Explores systems of inequality in US through lens of international migration. Examines how race/ethnicity, class, gender, age, and citizenship status shape experience of migrants and non-migrants. Organized around central debates such as incorporation, legal status, race/ethnicity, gender/sexuality, and transnationalism.

Credits 3.0

Last Offered

Fall 2003, Summer 2003, Spring 2003, Fall 2002

SOC 4200: Sports and Society

Sports as both a unifying and divisive social force. The corporatization and commodification of organized sports.

Credits 3.0

Last Offered

Fall 2025, Spring 2024, Fall 2023, Spring 2023

SOC 4500: Critical Race Theory

Theoretical framework challenging dominant understandings of race and law. Examines race, racism, systems of inequality through CRT lens; uses CRT as epistemological and empirically grounded theoretical frame; examines how norms of legal profession and areas of law facilitate racial oppression.

Credits 3.0

SOC 5050: Soc Theory & Public Policy

Influence of sociological ideas on social policies. Students will be expected to design a theoretically driven empirical study which impacts on some public policy.

Credits 3.0

Prerequisites

SOC 1000

Prerequisite Courses

SOC 1000

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

SOC 5300: Data Analysis-Social Scientist

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SOC 5400: Research Methods SocialScience

The development of real-world research skills through the application of social scientific methods and statistics. Special emphasis is given to sampling, measurement, applied statistics, data management and evaluative research.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SOC 6000: Sociology Independent Study

Supervised project or research culminating in research report or major paper.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SOC 6500: Seminar

Advanced course for seniors focusing on particular substantive area; topics rotate.

Credits 3.0

Prerequisites

(SOC 5300 and SOC 5400) and (SOC 5000 or SOC 5050 or SOC 5100)

Prerequisite Courses

SOC 5300

SOC 5400

SOC 5000

SOC 5050

SOC 5100

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

Spanish Studies

RLL 1111: Luso-Hispanic Topics Abroad

Co-requisite 1-credit course designed to provide an embedded study-abroad experience to complement courses with a focus on the Luso-Hispanic world.

Credits 1.0

Last Offered

Fall 2023

SPA 111: Introductory Spanish I

Groundwork Spanish, including oral proficiency, aural comprehension, and reading; for students with no prior knowledge of Spanish. Supplementary language laboratory work and oral drills.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

SPA 1112: Introductory Spanish II

SPA 1112 is the continuation of Introductory Spanish and as such, students need to know that some knowledge of Spanish is necessary in order to start at the SPA 1112 level. Groundwork Spanish, including oral proficiency, aural comprehension, and reading; for students with no prior knowledge of Spanish. Supplementary language laboratory work and oral drills.

Credits 4.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SPA 1119: Foundations in Spanish I

A beginner's journey into the Spanish language emphasizing read and writing. This course cultivates basic communication abilities, setting the stage for ongoing Spanish education.

Credits 3.0

SPA 1120: Foundations in Spanish II

Progressing from Foundations in Spanish I, this course enhances linguistic expertise in reading and writing. Students amplify conversational capacities and delve into complex grammar. Aimed to fortify foundational skills, propelling students toward intermediate coursework.

Credits 3.0

SPA 1121: Intermediate Spanish I

Review of grammar, composition, reading and conversation. Students should have completed SPA 1111 and 1112 or the equivalent.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SPA 1122: Intermediate Spanish II

Review of grammar, composition, reading and conversation. Students should have completed SPA 1121 or the equivalent.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

SPA 1125: Exp Lrn in Spanish Spk Phila

This one-credit course allows students to work with local organizations to further develop their linguistic and cultural competencies through community engagement opportunities. The course will be comprised of a structural blend of experiential learning, readings, discussions, and reflections. Pre-requisites: SPA 1121 or approval of instructor.

Credits 1.0

Prerequisites

SPA 1121

Prerequisite Courses

SPA 1121

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SPA 1130: Span. for Heritage Speakers

Combination of reading and writing in addition to speaking. Work is individualized for needs of students. Objective is to prepare students for a more advanced course. Restricted to students with Hispanic background who have been exposed to Spanish at home.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

SPA 1131: Conversation & Composition I

Regular practice in conversation and composition with review of grammar and continuing work on language skills in Spanish. Students should have completed SPA 1122 or the equivalent.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SPA 1132: Conversation & Composition II

Spanish 1132 is a continuation of 1131 with more intensive practice in conversation and composition in Spanish, through literary and cultural analysis of texts, as well as a review of difficult grammatical points. As a result, students will develop their vocabulary and improve their proficiency and skills for analyzing literary works of representative Hispanic texts, while also developing essential critical thinking skills in preparation for taking upper-level courses in Spanish. Students should have completed Spanish 1131 or the equivalent.

Credits 3.0

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

SPA 2010: Adv. Spanish for Health Prof.

Beyond improving the linguistic competence of students, this course aims to expose the challenges of the medical profession within the United States and how it addresses problems of power, oppression, deprivation, marginalization, and/or social privilege.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Spring 2025

SPA 2011: Adv. Spanish for Global Bus.

This course prepares students for successful communication in the Spanish speaking business world. It introduces business vocabulary and concepts, exposes students to financial documents, provides practice with oral and written correspondence, and promotes cross-cultural literacy in the context of international business. PRE-REQ: Spa 1132 or authorization from the chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2025

SPA 2012: Special Topics Abroad

The course will serve to transfer study abroad courses at the 2000 level whose description is relevant to the program but do not have an exact equivalent in our curriculum. Pre-requisite SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Summer 2025, Summer 2024, Spring 2024, Summer 2023

SPA 2013: Adv. Spanish for Law & Policy

This course focuses on communication in Spanish within legal and political contexts. It introduces essential terminology, familiarizes students with juridical documents, and develops communication skills necessary for careers in law, public policy, international organizations, and NGOs serving Spanish-speaking communities. Pre-Reqs: SPA-1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

SPA 2044: Latin American Novel

Reading and interpretation of Spanish-American novels from the modernist period to the present. Students should have completed 1132 or the equivalent. Pre-requisite SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2014

SPA 2124: Sounds of Spanish

Overview of major features of Spanish phonetics and phonology with a secondary focus on regional and social variations found in the Spanish-speaking world. Applications to measurement and analysis of acoustic features of speech and improvement of Spanish pronunciation.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Spring 2024, Spring 2023, Spring 2021, Spring 2015

SPA 2138: Advanced Spanish

Intensive grammar review with special attention to accuracy. Students should have completed 1132 or the equivalent.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2025, Spring 2025

SPA 2140: Writing & Stylistics in Span

Intensive practice in written expression and textual analysis for heritage and non-heritage speakers. Compositions are modeled on selected Spanish texts.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

SPA 2220: Literature & Culture of Spain

The foremost works of Spanish literature from the beginnings to present day. A required course for majors. Students should have completed 1132 or the equivalent. Pre-requisite SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

SPA 2221: Lit. & Cult. of Latin America

Spanish-American literature from colonial times to the present. A required course for majors. Students should have completed 1132 or the equivalent. Pre-requisite SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

SPA 2310: Intro to Spanish Linguistics

Methods, findings, and theory of linguistic research on the sound system and the structures of present-day Spanish. The basics of abstract linguistic analysis. Hands-on introduction to the major subdisciplines of linguistics: morphology, phonetics, phonology, semantics, and syntax. Pre-reqs: SPA 1138 or SPA 1140 or authorization from the chairperson.

Credits 3.0

Prerequisites

SPA 1138 or SPA 1140

Prerequisite Courses

SPA 1138

SPA 1140

Last Offered

Fall 2024

SPA 2700: Resrch Exp in Hispanic Linguis

Supervised research experience focused on Hispanic linguistics. Students may register for the course more than once but no more than once per semester. Instructor approval required.

Credits 1.0

Prerequisites

SPA 1138

Prerequisite Courses

SPA 1138

SPA 3025: Faces of Modernity

Study of artistic trends in twentieth century Spain. Pre-requisite: SPA 1132 or authorization from the chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2021, Spring 2019, Spring 2017, Summer 2015

SPA 3044: Spanish Postmodern Fiction

Representative trends in 20th and 21st Centuries Spanish novels. Pre-requisite: SPA 1132 or authorization from chairperson

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Spring 2022, Spring 2020, Fall 2018, Fall 2017

SPA 3045: Spanish Dystopian Fiction

This popular course analyzes several kinds of Spanish dystopian fiction. The analysis of these texts will allow students to understand how renowned Spanish authors see the future of our planet and civilization. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Spring 2021, Summer 2019, Summer 2018, Summer 2017

SPA 3046: Latin America Now

This course examines the most contemporary cultural movements happening in Latin America: environmentalism, feminism, indigenism, populism, etc. To do so we will analyze literary, journalistic, and sociological texts as well as visual sources. Prerequisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

SPA 3054: Hispanic Poetry

A study of Spanish and Spanish-American foremost male and female poets from Spain's vanguard movement to present day jointly from Latin America's colonial times to present day against Europe's socio-political and aesthetic backdrop. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Summer 2017, Fall 2015, Fall 2014

SPA 3062: Medieval Gardens

This course explores garden imagery in Medieval Spain following the Christian victory over Islam. It examines how garden spaces reflected cultural memory, religious identity, and mechanical engineering, while addressing visual modes that emerged from social reorganization between different religious communities. Pre-Req: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2025

SPA 3064: Spanish Theatre of 20 & 21 C.

A critical analysis of representative dramatic works of Spain from Jacinto Benavente to present day, with special emphasis on women dramatists and gender issues of the twentieth and twenty-first centuries within the historical and socio-cultural evolution of contemporary Spain. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2025, Spring 2024, Spring 2022, Spring 2020

SPA 3074: Hispanic Cinema

Spanish films based on literary works as a medium will be used to better understand contemporary Spanish culture and civilization. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Spring 2025, Fall 2021, Spring 2021, Fall 2018

SPA 3080: Bible in Spain

This course will study the evolution of the idea of sainthood between the 8th and 13th centuries. Drawing on Arabic, Latin and Spanish texts, we will study issues like shared saint veneration, social norms and collective memory in Medieval Spain. Pre-requisite: SPA 1132 OR authorization from a chairperson

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

SPA 3085: Activism in the Americas

The course explores the work of performers, artists, musicians, and cultural agents through the intersection between arts and activism (artivism). The course discusses a selection of iconic case studies in the Americas addressing social justice issues creatively and artistically. Prerequisite: SPA-1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2025

SPA 3130: Sustainability in Lat. America

This course analyzes diverse visual and literary sources to explore sustainability issues in contemporary Latin America. Students engage with novels, essays, documentaries, and art projects, offering an introduction to current ecocritical debates and cultural trends in the region.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

SPA 3134: Sounds of Spanish

Overview of major features of Spanish phonetics and phonology with a secondary focus on regional and social variations found in the Spanish-speaking world. Applications to measurement and analysis of acoustic features of speech and improvement of Spanish pronunciation.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

SPA 3200: Intro to Spanish Translation

Hands-on introduction to written Spanish-English translation. The emphasis is on Spanish to English translation of a variety of different texts from the fields of business, law, literature, tourism, and science. Basic theory principles and translation procedures considered a vital component in the formal training of a translator.

Credits 3.0

Prerequisites

SPA 1138

Prerequisite Courses

SPA 1138

Last Offered

Spring 2025, Summer 2024,
Spring 2022, Fall 2014

SPA 3254: Spanish Lyric Tradition

Examines the major themes and evolution of Spanish lyrical verse through the political and socio-cultural experiences of Spain's most representative male and female poets from its beginnings to present day. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2024, Spring 2021

SPA 3412: Special Topics

Advanced study of topics of special interest in Spanish literary and/or cultural studies. May be repeated for credit if topic changes. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

SPA 3484: Medieval Cultures

The Cid and other major works of the Spanish Middle Ages: early lyric, epic, ballad, prose. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Spring 2016

SPA 3485: Nature in the Middle Ages

Nature in Medieval Culture explores issues of sustainability, race gender and intersectionality in Medieval literature. Pre-requisite: SPA 1132 or authorization from the chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

SPA 3654: Early Modern Poetry

Traces the political and socio-cultural milieu of Spain's Early Modern era as reflected in the works of representative poets of Spain's renaissance period at the beginning of Europe's 16th century through Spain's baroque ending with the close of the 17th century. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Spring 2017

SPA 3944: Latinx Lit and Performance Art

This course will expose students to performance studies and literary criticism. Overall, the seminar offers a historical and critical grounding for Chicano/Latino writing in the US by surveying Latinx literature and performance from the nineteenth century to the present. Pre-requisite: SPA 1132 or authorization from chairperson.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

SPA 3970: Research Seminar

Principles and techniques of literary research. Overview of major Spanish and Spanish-American authors and representative works. Pre-requisite: any 2000-level SPA or authorization from the chairperson. Required to obtain a major in Spanish.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SPA 3993: Community Interpre. Internship

A community-based experience helping lawyers translate & interpret for the Philadelphia Hispanic community. Pre-requisite SPA 1132 and an interview with the instructor.

Credits 3.0

Prerequisites

SPA 1132

Prerequisite Courses

SPA 1132

Last Offered

Fall 2025, Spring 2025

SPA 5012: Latinx Language & Culture I

This course explores Latinx cultural expressions in the U.S. and beyond, examining how language and identity interact across diverse communities. Topics vary by instructor and may include food, media, migration, or gender through literature, film, and critical readings.

Credits 3.0

SPA 5013: Latinx Language & Culture II

This course explores Latinx cultural expressions in the U.S. and beyond, examining how language and identity interact across diverse communities. Topics vary by instructor and may include food, media, migration, or gender through literature, film, and critical readings.

Credits 3.0

SPA 5900: Independent Study in Spanish

Supervised study, activity or research. May be taken more than once. Pre-requisite: Intermediate Spanish or above. Prior approval of chair and instructor. Permission given only in very special situations.

Credits 3.0

Prerequisites

SPA 1132 :Y

Prerequisite Courses

SPA 1132

Last Offered

Fall 2022, Fall 2017, Spring 2016, Spring 2015

Summer Business Institute

SBI 0099: Excel

Provides a basic understanding of Excel functions along with financial and valuation models. Course is open to currently enrolled SBI students.

Credits 0.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 1000: Professional Success

Skill building and strategizing for job/internship search; exposure to job/internship resources and practicing professionals. Course is open to students accepted to the SBI Program.

Credits 1.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 1001: Business Fundamentals

Dynamic nature of business in a changing environment explored. Cross functional approach to understanding business operations. Emphasis on purpose of business; how business vision is actualized. Action learning, problem solving approach utilized.

Credits 1.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 1006: Business Law Basics

Basic legal issues involved in the creation and operation of business organizations.

RESTRICTED TO: SBI Students

Credits 1.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 2005: Applied Economics

Decision making of households, firms and the government with respect to the allocation of scarce resources. Topics include supply and demand, nature and characteristics of the U.S. economy, market structures etc.

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 2007: Analytics & Info Technologies

Explore alignment of info technologies with business; focus on acquisition of business data using info systems; gain meaningful insight on data using analytical tools. RESTRICTED TO: SBI Students

Credits 2.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 3010: Financial Accounting

Generally accepted accounting principles and both the creation and analysis of financial statements. Exposure to importance of accounting in making decisions including those related to business, investing, and financing.

Credits 2.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 3020: Introduction to Finance

Financial decision-making and firm value; topics include time value of money, bond valuation, measuring risk and return, stock valuation, the cost of capital, and capital budgeting.

Credits 2.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 3030: Management Essentials

Introduction to organizational structures and functions; leading, planning, controlling, and problem solving through effective utilization of and respect for human capital.

Credits 2.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 3040: Principles of Marketing

Strategic and applied introduction to how goods and services are developed, distributed, priced and communicated to meet consumer needs.

Credits 2.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

SBI 3145: Managerial Economics

Use of economic concepts and tools to determine management strategies that efficiently allocate scarce resources within the firm to optimize the value of the firm.

Credits 3.0

Last Offered

Summer 2025, Summer 2024, Summer 2023, Summer 2022

Theatre

SAR 2010: Intro to Calligraphy

A practical and historical approach to the study of writing. The development of the written letter and the ability to use the newly acquired hand, with the proper materials and techniques.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SAR 2020: Basic Watercolor Techniques

Techniques of transparent watercolor painting with concentration on still life.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SAR 2021: Basic Drawing Techniques

A foundation course in drawing, emphasizing visual concepts through work in a variety of media including charcoal, pencil and ink. Direct observation of the model, composition, perspective, and theory.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SAR 2022: Basic Oil Painting

Basic techniques in the oil medium, with emphasis on understanding the nature of canvas as a vehicle, and color theory.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SAR 2100: Music Theory I

Basic materials and structures of music (pitch and rhythmic notation, scales and keys, the basics of rhythm, etc.), as well as composition, aural, and sight-reading skills.

Credits 4.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

SAR 2110: Western Music to 1750

Development of Western European music from its earliest traceable roots through the Renaissance, and Baroque periods through the musical characteristics, instruments, and theory of each period, as well as the cultural and historical context.

Credits 3.0

Last Offered

Fall 2024, Fall 2023, Fall 2021

SAR 2111: Western Music:1750-Present

Development of Western European music from the close of the Baroque era (ca. 1750) through the Classical, Romantic, and Modernist eras to the present through the musical characteristics, instruments, and theory of each period, as well as the cultural and historical contexts.

Credits 3.0

Last Offered

Fall 2025, Spring 2020

SAR 2113: The Charm of Music

A listening study approach to the many-faceted world of music from the great classics and their masters to the cultural explosion of the twentieth century.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SAR 2114: Songwriting: Words & Music

An introduction to the art of songwriting through the study of existing songs and their components (imagery, meter, rhyme, structure, melody, harmony, rhythm, etc.), as well as the development of students' own songs through specific assignments and exercises.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

SAR 2119: Jazz:America's Music

A listening study of the greats of American Jazz, beginning with Ragtime, New Orleans, Big Band, Swing, Fusion and current trends.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SAR 3030: Special Topics in Music

A specialized area of music studies combining elements of music history, theory, and composition, as well as performance.

Credits 3.0

Prerequisites

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

SAR 3031: Special Topics in Studio Art

A fine arts course that introduces the student to the history, theory and technique of art resulting in the creation of an original piece of art.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

SAR 4007: Painting of Icons

Painting icons in the classical, Byzantine Russian tradition including the study of the historical and physical inquiry into the iconic imagery of the twentieth century visual culture. No artistic talent necessary.

Credits 3.0

Last Offered

Spring 2021, Fall 2019, Spring 2019, Spring 2018

SAR 4909: The Beatles: Song by Song

This course is designed as a dynamic exploration of Beatles songs and recordings, from their earliest efforts to their later endeavors. Their meteoric career as a band also invites an investigation of the history and culture of the 1960s.

Credits 3.0

Last Offered

Fall 2025, Spring 2025

SAR 5004: Basic Printmaking

Basic introduction, to the traditional methods of the fine art of making prints including Monoprint, Stencil (e.g. Screen Printing, Relief (e.g., Woodcut, Linoleum), Intaglio (e.g., Experimental techniques of color printing, foam printing). The artistic development of the subject within its history will also be discussed. Water base inks will be used.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THE 2019: The Theatrical Experience

The variety of arts and crafts that combine to create theatre. Through hands-on experience, discussion, and performance, the interrelations among dramatic idea, stage direction, acting, design and technical elements that harmonize in a theatrical production are discovered.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THE 2025: Improvisational Theatre

Improvisation to explore non-verbal communication strategies and the study of theatre as a communication medium. Readings in non-verbal communication and modern theatre theory.

Credits 3.0

Prerequisites

Last Offered

Fall 2025, Fall 2024, Spring 2024, Spring 2023

THE 2029: Fund Princ of Acting

Traditional acting theories and basic techniques: games, improvisation, sensory awareness exercises and beginning work on scenes.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THE 2030: Advan Princ of Acting

Creation of an original piece of theater. Self-selected scenes used to deepen individual growth. Prerequisites THE 2029 or permission of instructor.

Credits 3.0

Prerequisites

THE 2029

Prerequisite Courses

THE 2029

Last Offered

Spring 2025, Fall 2023, Spring 2020, Spring 2018

THE 2032: Elements of Dance

The broad range of dance styles, dance theory, vocabulary, and body placement.

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THE 2033: Advanced Elements of Dance

Expanded study of dance styles, dance theory, vocabulary, and body placement.

Credits 3.0

Prerequisites

THE 2032 :D-

Prerequisite Courses

THE 2032

Last Offered

Spring 2025, Spring 2023, Spring 2021, Spring 2019

THE 2034: Musical Theatre

Explores the conventions of musical theatre. Practical work in the application of musical performance theory to specific song, movement and stylized acting techniques.

Credits 3.0

Last Offered

Spring 2025, Spring 2023,
Spring 2021, Spring 2019

THE 2040: Theatre Practicum

Significant and responsible participation in the department's production program.

Credits 0.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THE 2041: Theatre Practicum

Significant and responsible participation in the department's production program. (Note: this course is identical to THE 2040 Theatre Practicum, but provides students the opportunity to earn a credit hour.)

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THE 2051: Creativity

Students from all disciplines experiment with creativity in their major and their work, utilizing theatre-based approaches to creating performances, stories, ads, business plans, films, and/or projects that nurture innovation, originality, and collaboration.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023,
Fall 2022

THE 3007: Playwriting

Hands-on exploration of the art & craft of playwriting through exercises, scene writing, the study of existing plays (as texts & in production,) & the development of students' own dramatic work.

Credits 3.0

Last Offered

Spring 2025, Spring 2024,
Spring 2022, Spring 2021

THE 3030: Spec Topics in Theatre

A specialized area of theatre studies (e.g., avant-garde, feminist, Asian, Melodrama), combining elements of theatre history, dramatic literature and criticism, as well as performance and production aspects of live theatre.

Credits 3.0

Last Offered

Summer 2025, Fall 2024,
Spring 2024, Spring 2022

THE 4011: Directing the Play

Fundamentals of directing: script analysis, approaches to working with the actor, movement and blocking, visualization, design, and rhythm.

Credits 3.0

Last Offered

Fall 2021, Fall 2019, Spring 2013

Theology and Religious Studies

THL 1000: Faith, Reason, and Culture

Introduction to sources and major thinkers that have shaped responses to fundamental human questions that underlie all religions and shape the human search for meaning. Engagement of religious truth claims, themes, values, and witness as resources for analyzing and critically evaluating contemporary cultural challenges.

Credits 3.0

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

THL 2050: THM Old Testament in Context

Critical analysis of Old Testament texts and themes. Historical, archaeological, cultural, and theological foci with attention to theory and practice of exegesis and biblical interpretation. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1850 :D- or HON 1827 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2011, Fall 2010, Fall 2009, Fall 2008

THL 2300: THM New Testament in Context

Critical analysis of New Testament texts and themes. Structure, meaning, historical development, continuing vitality, theology, and application. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2024, Summer 2013, Fall 2012

THL 2460: Bible and Environment

Exploration of biblical perspectives on the environment through a variety of key characters and their relation to the land and other creatures. Attention to historical treatment of the ecology in Christian and Jewish theology and engagement of contemporary ecological issues.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2023, Fall 2018, Spring 2017, Spring 2015

THL 2490: THM Biblical Studies

Critical analysis of biblical themes, biblical theology, spirituality and ethics as well as their reception in history and in culture. Attention in theory and practice of exegesis and biblical interpretation. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

THL 2550: THM Contemporary Christianity

Contemporary Christian writings, controversies, and events. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2018, Fall 2016, Spring 2000, Fall 1999

THL 2590: THM Historical Theology

Historical development of theology by topical or chronological arrangement. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2023, Fall 2021, Spring 2020, Spring 2019

THL 2750: Augustine: Then and Now

Exploration of connections between our time and culture and Augustine's time and culture; study of select sermons and letters of St. Augustine; comparison and contrast of 'snapshots' of moments in Augustine's experience with 'snapshots' from the 3rd millennium.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2023, Spring 2018, Spring 2017, Fall 2016

THL 2780: THM Christianity in History

Emergence, growth, and transformation of Christianity from its origins in the eastern Mediterranean to its worldwide expansion. Ways in which Christian symbolism and ritual have shaped the lives of ordinary people. Major writings, controversies, and events. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2016

THL 2900: THM Catholicism in the US

Thematic issues in American Catholic experience and Catholic identity in the United States.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2024, Fall 2021, Spring 2021, Fall 2020

THL 2910: THM Global Catholicism

Examination of Catholicism in global society. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2014

THL 3200: Understanding Jesus

The historical Jesus and questions of method; christologies of the early Christian sources and councils; the later tradition of Christological reflection; contemporary trajectories.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2025, Spring 2024, Spring 2021, Spring 2020

THL 3250: THM Problem of Evil

Formulations of the problem and historical attempts to solve it. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Summer 2025, Spring 2025, Summer 2024, Summer 2023

THL 3400: Sacraments

History of Christian sacraments; sacraments as celebrations of life in God; theology of worship as fulfillment of being human; present and future shapes of Christian liturgy; applications to particular sacraments, e.g., baptism, reconciliation, eucharist.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2024, Spring 2020, Spring 2018, Fall 2014

THL 3450: Pastoral Care of the Sick

Treatment of theological understanding of the sacrament, anointing of the sick. Examination of primary texts on pastoral care from the Roman Catholic Church, and spirituality of caregivers. Pastoral-theological exploration of entire range of care provided to the ill and dying.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2025, Spring 2023, Spring 2022, Fall 2020

THL 3740: THM Liberation Theologies

Theologies emerging from specific struggles for liberation in Latin American, Africa, Asia, and North America; their context, content, and critique. See department website for announcement of particular themes;

Credits 3.0

Prerequisites

THL 1051 :D- or THL 1000 :D- or THL 1050 :D- or HON 1827 :D- or HON 1053 :D- or HON 1003 :D- or HON 1850 :D- or HON 1825 :D-

Prerequisite Courses

THL 1051
THL 1000
THL 1050
HON 1053
HON 1003

Last Offered

Spring 2022, Spring 2021, Spring 2020, Spring 2019

THL 3790: THM Theological Studies

Exploration of issues in theology. See department website for announcement of partilar themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THL 4100: THM Catholic Ethics

Contemporary Catholic ethics. Foci include economic justice, solidarity, poverty, racism, environmentalism, technology, agriculture, and Catholic social thought. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2023, Spring 2022,
Spring 2015, Spring 2014

THL 4200: Ethics of Life and Death

Explorations of selected issues in biomedical ethics (e.g., abortion, euthanasia).

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2021, Fall 2020, Fall 2019,
Fall 2018

THL 4330: Christian Environmental Ethics

Examine foundational theological issues and major christian thinkers on the environment; in-depth study of synthetic chemical, agriculture, and treatment of animals; and weekly class discussions on various practical topics in environmental ethics.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or THL 1051 :D- or HON 1003 :D- or HON 1053 :D- or HON 1825 :D- or HON 1850 :D- or HON 1827 :D-

Prerequisite Courses

THL 1050
THL 1000
THL 1051
HON 1003
HON 1053

Last Offered

Summer 2025, Summer 2024,
Summer 2023, Summer 2022

THL 4480: Introduction Biomedical Ethics

Development of tools for critical analysis of biomedical ethical issues. Reflection on ethical issues in society and personal lives. Focus on a distinctively Catholic Christian approach to these matters.

Credits 3.0

Prerequisites

THL 1050 or THL 1000 or HON 1825 or HON 1003 or HON 1053 or THL 1051 or HON 1827 or HON 1850

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2025, Spring 2024,
Spring 2023, Spring 2022

THL 4490: THM Christian Ethics

Issues in Christian ethics. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Fall 2023

THL 4500: Augustinian Spirituality

Study of spirituality of Augustine and of Augustinian spiritual writers and traditions.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Summer 2025, Spring 2024,
Summer 2023, Summer 2022

THL 4550: The Contemplative Tradition

Exploration of classical Christian teachings on silent prayer and meditation. Focus on both the theoretical understanding of the ancient practice of contemplation and its practice in daily life. Interdisciplinary approach through reading ancient Christian and contemporary authors.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THL 4990: THM Spirituality Studies

Study of Christian and/or non-Christian spiritual voices, movements, traditions, or themes (western or non-western, local or global) in ancient, medieval, early modern, modern, or contemporary times.

Exploration of relationship to theology, faith, culture, and practice. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

THL 5000: THM Religion

Evolution and development of central themes or concepts in the academic study of religion such as visual culture; violence and conflict; politics; law; myth and/or ritual; interreligious dialogue. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2025, Spring 2024, Fall 2023, Summer 2023

THL 5001: THM Presence/Absence of God

Major seminar. Theism and the atheistic critiques of the nineteenth and twentieth centuries; the problem of God in western culture; contemporary retrieval of the doctrine of God as Trinity.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Fall 2024

THL 5002: THM Major Thinkers & Ages

Major seminar. Christian thinkers from the early church through the twenty-first century.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

THL 5003: THM Catholic Studies

Investigation of distinctive elements of Catholicism: ecclesiological, historical, sociological, moral, spiritual, theological, biblical, liturgical, among others.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THL 5004: THM Theology and Culture

Study of the mutual interplay between theology and culture and the practical ways in which theology and culture interact in various historical, political, social, and economic contexts.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THL 5005: THM Global Rel. Experience

Exploration of non-Christian religions, religions in non-Western regions of the world, religious beliefs and practices in a broader global context, or experiences deemed "religious".

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

THL 5100: THM Judaism

Development of the religious tradition of the Jewish people; the Torah, the Talmud and other commentaries; Jewish ideals in ethnic literature. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Fall 2021, Spring 2012, Spring 2011

THL 5150: Islam:History,Thought,Culture

History and development of Islam: beliefs, rituals, sects, and intellectual movements.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THL 5160: Islamic Mysticism

Sources, development, principles, contribution, and influence of Islamic mysticism.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2021, Fall 2019, Spring 2017, Spring 2013

THL 5170: Islamic Philosophy & Theology

Islamic relationalism and the crisis of moderate and conservative Muslim theologians; the dialectical struggle between Islamic philosophy and theology.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1850 :D- or HON 1827 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Fall 2023, Spring 2015, Fall 2012

THL 5180: Islamic Political Thought

Integration of Islamic philosophy, religion, political science and history; the state in pre-Islamic Arabia, the Qur'anic concept of the state, the crisis of succession, Muslim theorists, revival and reform.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Fall 2020, Spring 2014, Fall 2009

THL 5200: Religion in Russia

The history, mind, spirit and life of Russia Orthodoxy; its influence in its adherents in the modern, complex and pluralistic world.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2021, Spring 2020, Fall 2019, Fall 2018

THL 5400: THM Science & Religion

The interaction of science and religion from Galileo to the contemporary period. theological implications of recent developments in the natural sciences. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1850 :D- or HON 1827 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Spring 2025, Fall 2016, Fall 2014, Fall 2013

THL 5410: Theology and Film

Exploration of connection between theology and film and of the ways that filmmakers ""do"" theology. Survey of the literature on the subject and analysis of films and filmmakers that have demonstrated theological sensitivity and/or interest in theological questions and themes."

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2024, Fall 2020, Summer 2019, Summer 2018

THL 5800: Religion and Literature

Religious attitudes and experience in contemporary literature.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2022, Spring 2021, Spring 2017, Fall 2016

THL 5820: THM Religion in America

Religious thought, institutions, movements, symbols, performances, and lived religious experience in the Americas. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2023, Spring 2019, Spring 2018, Fall 2017

THL 5990: THM Interreligious Studies

Examination of principles and practices of academic and non-academic forms of dialogue between religions. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Summer 2013, Fall 2012, Spring 2011, Summer 2010

THL 6000: THM Theology or Religion

Exploration of issues in religion or religious studies and theology or theological studies. See department website for announcement of particular themes.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

THL 6001: Themes in Religious Studies

Themes in religious studies taken by Villanova students studying overseas.

Credits 3.0

Prerequisites

THL 1000

Prerequisite Courses

THL 1000

Last Offered

Summer 2025

THL 6050: Internship

Supervised field experience in an approved setting (e.g., social service, teaching).

Credits 3.0

Last Offered

Summer 2025, Summer 2019, Fall 2016, Spring 2016

THL 6051: Internship

Supervised field experience in an approved setting (e.g., social service, teaching).

Credits 6.0

Last Offered

Summer 2018, Fall 2016, Fall 2015, Fall 2014

THL 6200: Service Learning Practicum

Service or immersion experiences as integral part of select courses. Integration of field experience with academic requirements set by the instructor.

Credits 1.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or THL 1051 :D- or HON 1003 :D- or HON 1053 :D- or HON 1825 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
THL 1051
HON 1003
HON 1053

Last Offered

Fall 2024, Spring 1997

THL 6400: Independent Study

Independent study restricted to TRS majors and minors. Permission of chairperson required.

Credits 3.0

Prerequisites

THL 1050 :D- or THL 1000 :D- or HON 1825 :D- or HON 1003 :D- or HON 1053 :D- or THL 1051 :D- or HON 1827 :D- or HON 1850 :D-

Prerequisite Courses

THL 1050
THL 1000
HON 1003
HON 1053
THL 1051

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

THL 6600: Portfolio Review

Assessment of portfolio materials that document students' general, broad knowledge in their specialization.

Credits 0.0

Prerequisites

THL 6300 :D-

Prerequisite Courses

THL 6300

Corequisites

THL 6500

Corequisite Courses

THL 6500

Villanova Experience

VEXP 0001: Villanova Experience

Credits 0.0

Corequisites

Last Offered

Spring 2025, Spring 2024, Fall 2023, Spring 2023

VEXP 1000: The Leadership Experience

Exploration of leadership and personal growth in first year college experience.

Credits 1.0

Corequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VEXP 1001: Health & Wellness

A workshop style course stressing all aspects of health: social, physical, intellectual, career, emotional, and spiritual. Study and application of skills of health- conscious living; work with health and wellness professionals on campus including personal trainers, yoga instructors, and nutritionists.

Credits 1.0

Corequisites

Last Offered

Spring 2021, Fall 2009, Fall 2005

Villanova Integrated Academics

VIA 3010: Indoor Air Quality/Hum Hlth

Examine and analyze issues surrounding indoor air quality (IAQ) and human health using environmental science, biology, public health, and social, policy, and economic influences. Air pollution, health effects, economics, social, and cultural factors, in developed and developing countries.

Credits 3.0

Last Offered

Fall 2020, Spring 2019

VIA 3020: Creating Social Impact

Using interdisciplinary and sustainable innovations in the social impact sector to solve social problems. Become innovative problem solvers. Learn by doing via class discussions and hands-on projects to discover how to make social change now and as lifelong changemakers.

Credits 3.0

Last Offered

Spring 2022, Spring 2021,
Spring 2020, Spring 2019

VIA 3030: US Statesman:Lib/ Eqty Com Good

Economics and political philosophy applied to the history, theory, and practice of statemanship. In-depth study of important case studies focusing on how political leaders must balance competing political and economic interests in society for the sake of the common good.

Credits 3.0

Last Offered

Spring 2019

VIA 3040: Global Soccer:History/ Data

This course will utilize methodologies drawn from history and data analytics to investigate soccer as a global phenomenon. Students will explore soccer history beginning in 1850 and develop the necessary coding skills to work in the R programming language. Utilizing these skills and, ideally, conducting some research in a language other than English, students will collaborate to produce detailed reports on the history and culture of soccer in individual countries around the world.

Credits 3.0

Last Offered

Fall 2022, Fall 2021

VIA 3050: Building What Matters

Introduction to the built environment and concentrate on sustainability and environmental challenges within the built environment. Introduction to central theory and concepts of sustainable planning and design of the built environment and technical approaches and tools, such as GIS, used in urban planning to address these challenges. Focus on the planning process, the different urban environments that are the outcome of these processes and the associated environmental and sustainability challenges and opportunities.

Credits 3.0

Last Offered

Fall 2021

Villanova School of Business

VSF 0099: B2B:FR Experience

Continuation of professional development activities to include but not limited to resume review, participation in networking etiquette interactive sessions and an intro to Handshake. Restricted to: VSB Freshman Cohort

Credits 0.0

Last Offered

Fall 2025, Spring 2025, Fall
2024, Spring 2024

VSBS 1000: Information Technology

On line course focuses on design and use of spread sheets to support decision making/problem solving.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VSBS 1015: Business Dynamics

Explores dynamic nature of business in a changing environment. Cross functional view of business and contribution of functions to accomplish vision. Integrates global, ethical, and technological dimensions. Emphasizes innovation as business, personal skill.

Credits 3.0

Last Offered

Fall 2025, Fall 2024, Fall 2023, Fall 2022

VSBS 1500: Special Topics in Business

Contemporary issues and topics impacting the business environment.

Credits 1.0

Last Offered

Fall 2022, Fall 2021, Fall 2020

VSBS 1600: Special Topics in Business

Introductory topics of interest in the business environment.

Credits 3.0

VSBS 2000: Backpack-to- Briefcase:SO Sem

Professional development program combining class sessions and out-of-class activities focused on career exploration, job search skills, and development of soft skills.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VSBS 2004: Financial Accounting

Course introduces generally accepted accounting principles and both the creation and analysis of financial statements. Students are exposed to the importance of accounting in making decisions such as those related to business, investing, and financing.

Credits 3.0

Prerequisites

VSBS 1015 and VSBS 1000 :Y and (ECO 1001 :Y or SBI 2005) and ECO 1002 :Y

Prerequisite Courses

VSBS 1015
VSBS 1000
ECO 1001
SBI 2005
ECO 1002

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VSBS 2006: Introduction to MIS

Strategic alignment of business and information technology (IT); managing IT as a strategic resource; strategies for sourcing IT development and services.

Credits 3.0

Prerequisites

VSBS 1000 :Y and (ECO 1001 :Y or SBI 2005 :Y) and ECO 1002 :Y and (VSBS 1015 or VSBS 1005 or VSBS 1002)

Prerequisite Courses

VSBS 1000
ECO 1001
SBI 2005
ECO 1002
VSBS 1015
VSBS 1005
VSBS 1002

Corequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Summer 2024

VSBS 2007: Corp Respon & Regulation

Examines law, ethics, corporate responsibility, and business regulation. Studies the sources, substantive principles, and evolving nature of law, and its role in ethical business decision making.

Credits 3.0

Prerequisites

(ECO 1001 :Y or SBI 2005 :Y) and ECO 1002 :Y and (VSBS 1015 or VSBS 1005 or VSBS 1002)

Prerequisite Courses

ECO 1001
SBI 2005
ECO 1002
VSBS 1015
VSBS 1005
VSBS 1002

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VSBS 2008: Business Analytics

Use of business analytics and AI-technologies for improving managerial decision making, including data-visualization, data-mining, machine learning, AI, optimization, and simulation for data-driven decision-making. Through AI-enhanced techniques, students learn to uncover insights and recommend business actions based on complex data analysis.

Credits 3.0

Prerequisites

(MAT 1400 or MAT 1500) and (MAT 1235 or MAT 1430 or STAT 1235 or STAT 1430) and VSB 1000 and (ECO 1001 :Y or SBI 2005 :Y) and ECO 1002 :Y and (VSB 1015 or VSB 1005 or VSB 1002) and VSB 2006

Prerequisite Courses

MAT 1400
MAT 1500
MAT 1235
MAT 1430
STAT 1235
STAT 1430
VSB 1000
ECO 1001
SBI 2005
ECO 1002
VSB 1015
VSB 1005
VSB 1002
VSB 2006

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

VSBS 2014: Principles of Managerial Acct

How management accounting information can be used to help firms achieve strategic goals and profitability objectives. Use of an entrepreneurial perspective to examine how managers apply risk measurement and management technique to business planning and control systems. Cases and teamwork.

Credits 3.0

Prerequisites

VSB 2004

Prerequisite Courses

VSB 2004

Last Offered

Fall 2025, Summer 2025,
Spring 2025, Fall 2024

VSBS 2020: Competitive Effectiveness

Explores value creation for stakeholders and establishing competitive advantage; how goods/services are developed to meet customer/consumer needs and are distributed for consumption. Innovating, problem-solving, leading, and controlling through effective use of human capital explored. Satisfies Intro to Management/Intro to Marketing.

Credits 6.0

Prerequisites

VSB 1000 and (ECO 1001 or SBI 2005) and ECO 1002 and (VSB 1015 or VSB 1005 or VSB 1002) and VSB 2004 :Y

Prerequisite Courses

VSB 1000
ECO 1001
SBI 2005
ECO 1002
VSB 1015
VSB 1005
VSB 1002
VSB 2004

Corequisites

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VSB 2100: Socially Just Business Ldrship

Innovative cross-disciplinary seminar that integrates social justice teachings into business disciplines like economics, accounting, finance, marketing, management, and MIS. Students engage in the practice of intergroup dialogue to process course content personally and collectively.

Credits 3.0

Prerequisites

VSB 2020 or SBI 3030

Prerequisite Courses

VSB 2020

SBI 3030

Last Offered

Fall 2025, Spring 2025, Fall 2024

VSB 2121: Business Scholars Seminar

Special business topics offered in a lecture/seminar format to prepare students for research opportunities. RESTRICTED TO: Permission of VSB Honors Director

Credits 1.0

Prerequisites

VSB 1015

Prerequisite Courses

VSB 1015

Last Offered

Spring 2025, Spring 2024, Spring 2023, Spring 2022

VSB 3000: Backpack-to-Briefcase:JR Sem

Professional development program built around an internal case competition. Topics addressed include written and oral communication; business research; team dynamics and leadership.

Credits 1.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VSB 3008: Operations&Supply Chain Mgmt

Concepts and techniques for problems in manufacturing and service organizations. Topics: decision-making, forecasting, resource allocation, project management, quality, materials management, technology and strategy.

Credits 3.0

Prerequisites

(MAT 1235 or MAT 1430 or STAT 1235 or STAT 1430) and VSB 2008 and VSB 2020 and (VSB 2009 or VSB 2010 or VSB 2030 and VSB 2040)

Prerequisite Courses

MAT 1235

MAT 1430

STAT 1235

STAT 1430

VSB 2008

VSB 2020

VSB 2009

VSB 2010

VSB 2030

VSB 2040

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024

VSB 3500: Special Topics in Business

Contemporary issues and topics impacting the business environment.

Credits 3.0

Prerequisites

(MAT 1235 or MAT 1430 or STAT 1235 or STAT 1430) and VSB 2006 and VSB 2007 and VSB 2008 and VSB 2020 and (VSB 2009 or VSB 2010 or VSB 2030 and VSB 2040)

Prerequisite Courses

MAT 1235

MAT 1430

STAT 1235

STAT 1430

VSB 2006

VSB 2007

VSB 2008

VSB 2020

VSB 2009

VSB 2010

VSB 2030

VSB 2040

Last Offered

Spring 2024, Fall 2023, Spring 2023, Fall 2022

VSB 3900: Innovation & Design Practicum

""Design"" is a systematic

Credits 3.0

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024

VSB 4000: B2B:SR Leader Acad: Topics

Professional development capstone course focusing on the understanding, importance and development of leadership skills; specific topics may vary.

Credits 1.0

Prerequisites

VSB 3000

Prerequisite Courses

VSB 3000

Last Offered

Fall 2025, Fall 2024, Spring 2024, Fall 2023

VSB 4002: Strategic Think & Implem

Emphasizes strategy concepts to achieve integrative cross-functional solutions for competitive advantage. Application of strategy tools as well as concepts from prior course work. Application of knowledge to global and ethical challenges emphasized through the practice opportunities used in this course.

Credits 3.0

Prerequisites

VSB 2006 and VSB 2007 and VSB 2008 and (VSB 2014 or VSB 3006) and VSB 3008 and ECO 3108

Prerequisite Courses

VSB 2006

VSB 2007

VSB 2008

VSB 2014

VSB 3006

VSB 3008

ECO 3108

Last Offered

Fall 2025, Summer 2025, Spring 2025, Fall 2024