

Education Major with Teaching Chemistry Concentration

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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](#)

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 (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 4284	Meth Science 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 1505	Calculus II	4
	Advanced English Elective for EDU CHM	3

Teaching Chemistry Concentration (46 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	5
	CHM 1152 & 1104	5
	CHM 2211 & 2201	4
	CHM 2212 & 2202	4
	CHM 3411 & 3403	4
	CHM 4611 & 4601	4
MSE 2301	CHM:Water	4
MSE 2302	CHM: Criminalistics	4
MSE 2304	CHM:Our Energy Future	4
MSE 2305	Perspective on Plastic	4
MAT 1500	Calculus I	4

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 (3 credits)

Students with a Education primary major with a concentration in Teaching Chemistry have three (3) required free elective credits.

Degree Credit Summary

- **Major Credits:** 47 credits
- **Concentration:** 46 credits
- **Core Credits:** 27 credits
- **Free Electives Credits:** 3 credits
- **Total Required Credits:** 123 Credits

Category Descriptions

EDU 2201 or EDU 2202

Credits: 3

Course	Title	Credits
EDU 2201	Social Foundation Educ I	3
EDU 2202	Social Foundation Edu II	3

Advanced English Elective for EDU CHM

Credits: 3

- Take one three credit (3 cr) Advanced English elective, ENG 1000:5000, except ENG 1975.

CHM 1151 & 1103

Credits: 5

Course	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1

CHM 1152 & 1104

Credits: 5

Course	Title	Credits
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1

CHM 2211 & 2201

Credits: 4

Course	Title	Credits
CHM 2211	Organic Chemistry I	3
CHM 2201	Organic Chemistry Lab I	1

CHM 2212 & 2202

Credits: 4

Course	Title	Credits
CHM 2212	Organic Chemistry II	3
CHM 2202	Organic Chemistry Lab II	1

CHM 3411 & 3403

Credits: 4

Course	Title	Credits
CHM 3411	Physical Chemistry I	3
CHM 3403	Physical Chem Lab for Majors	2

CHM 4611 & 4601

Credits: 4

Course	Title	Credits
CHM 4611	Survey of Biochemistry	3
CHM 4601	Survey Biochemistry Lab	1