

Sustainability Studies Minor

Program Director: Frank Galgano, Ph.D.
Office Location: Mendel Science Center G67E
Telephone: 610-519-3337
[\[Website\]](#)

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: Global Interdisciplinary Studies
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	

Category Descriptions

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
HIS 2276	American Environmental Hist	3
HIS 4998	Topics in Public History	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 3002	Ecosystem Services	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 4333	Politics and the Env.	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 4801	Conservation Biology	3
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
EGR 7110	Fundamentals-Sustainable Engr	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 3503	Earth's Weather Systems	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 4360	Field Methods in Env Science	4
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 2304	CHM:Our Energy Future	4
MSE 2305	Perspective on Plastic	4
MSE 2500	GEV: Env. Sustainability	4
MSE 2502	GEV: Climate, Env., & Society	4
MSE 2506	GEV:Energy Extraction from Env	4
MSE 2507	GEV:Environmental Pollution	4
SCI 5300	Capstone Seminar	3
VIA 3010	Indoor Air Quality/Hum Hlth	3