

ENVIRONMENTAL STUDIES

Degree: Bachelor of Science
Specializations: Environmental Policy,
Natural Science, Geography
Minors: Environmental Studies, Geography
Certificate: Geographic Information Science
Department: Environmental Studies
Building 13, Room 206
(850) 474-2746
<http://uwf.edu/environmental/>
environmental@uwf.edu
College: Arts and Sciences
Semester Hours Required for Degree: 120

Faculty: K.J. Meyer-Arendt (Chairperson), A.H. Doerr (Emeritus), M. Droubay, C. Houser, Z. Hu, J. Liebens, M.C. Schwartz, D. Van Galen, J.D. Waldron; Faculty Associates: T. Banjanin, B. Bitters, W. Hugli, T. Kirschenfeld, J. Skaggs, H. Snoeckx

This interdisciplinary program offers a B.S. degree in Environmental Studies. Students learn to analyze physical and socioeconomic environments and to reach decisions concerning environmental use and protection. The major allows students to obtain an interdisciplinary background suitable for environmental monitoring and planning. Graduates are prepared for entry- and middle-level positions in governmental agencies in such areas as regional planning and resource management; for positions in industry and the private sector; or to pursue graduate degrees in urban/regional planning, resource management, coastal studies, Geographic Information Systems (GIS), and the geosciences.

Three specializations are available under this B.S. program: Environmental Policy, Natural Science, and Geography.

According to the departmental Academic Learning Compact, assessment of Student Learning Outcomes includes 1) a written exit exam during a student's last semester of residency, 2) a portfolio of the two best student projects, and 3) good performance in GEO 4332 Senior Seminar.

Contact the department for information concerning the Certificate in Geographic Information Science (GIS).

PROGRAM REQUIREMENTS

In addition to general University requirements, students seeking the B.S. in Environmental Studies must meet the requirements listed below.

Consult with your academic advisor for courses which may satisfy both the General Studies requirements and common prerequisites.

Course descriptions are listed alphabetically by prefix in the back of this *Catalog*.

ENVIRONMENTAL POLICY SPECIALIZATION

General Studies (36 sh)

Environmental Studies majors should take ANT 2000 or PSY 2012 to satisfy the social science/behavioral perspectives component and GEA 2000, ECO 2013, INR 2002, or POS 2041 to satisfy the social science/sociopolitical perspectives of General Studies.

For additional information see the General Studies section of this *Catalog*.

Common Prerequisites (26 sh)

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. Courses in brackets indicate substitutes from Florida public community/junior colleges and universities.

+ BOT	2010/L	General Botany/ Lab	.....4
		[BOT x010/L]	
+ BSC	1005/L	General Biology for Non-Majors/Lab	.....4
		[BSC x010/L]	
+ CHM	2045/L	General Chemistry I/ Lab	.....4
		[CHM x032/L, CHM x045/L]	
	CHM 2205/L	Fundamentals of Organic & Biochemistry/Lab	.....4
		[CHM x200/L]	
+ GLY	2010/L	Physical Geology/Lab	.....4
		[GLY x010C]	
+ MAC	1140	Precalculus Algebra	.....3
		[MAC x140]	
+ STA	2023	Elements of Statistics	.....3
		[STA x023]	

+ Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives (0-11 sh)

Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement.

Major (52-53 sh)

EVR	4023	Coastal & Marine Environments	.....3
GEO	3250/L	Weather and Climate/Lab	.....4
GEO	3260/L	Geography of Soils/Lab	.....4
GEO	4221/L	Coastal Morphology & Processes/Lab	.....4
GEO	4280/L	Basic Hydrology/Lab	.....4
GEO	4332	Senior Seminar	.....1
GEO	4333	Seminar in Environmental Issues	.....3
GIS	3015/L	Cartographic Skills/Lab	.....4
GIS	4035/L	Photo Interpretation & Remote Sensing/Lab	.....4
GIS	4043/L	Geographic Information Systems/Lab	.....3
GIS	4071	Methods & Techniques in Environmental Resource Management & Planning	.....3

Choose one:

GEO	3372	Conservation of Natural Resources	.....3
GLY	3031C	Environmental Geology	.....4

Choose one:

GEO	3471	Geography of World Affairs	.....3
GEO	3502	Economic Geography	.....3

Choose three:

EVR	4035	Environmental Law	.....3
EVR	4037	Environmental Auditing	.....3
EVR	4870	Land-Use Management	.....3
EVR	4941	Practicum in Environmental Studies	.....3
PHI	3640	Environmental Ethics3

Major-Related (7 sh)

PCB	4043/L	Ecology/Lab4
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Choose one:

ENC	3240	Technical Writing3
EVR	3894	Environmental Writing3

Upper Division Electives (0-1 sh)

Sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or completion of all departmental requirements at the 3000/4000 level, whichever is greater.

It is highly recommended that students choose from the following to complete their upper division electives: ECP 4302, PAD 3003, POS 3283, POS 3603, and PUP 4004.

NATURAL SCIENCE SPECIALIZATION

General Studies (36 sh)

Environmental Studies majors should take ANT 2000 or PSY 2012 to satisfy the social studies/behavioral perspectives component and GEA 2000, ECO 2013, INR 2002, or POS 2041 to satisfy the social science/sociopolitical perspectives of General Studies.

For additional information see the General Studies section of this *Catalog*.

Common Prerequisites (27 sh)

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. Courses in brackets indicate substitutes from Florida public community/junior colleges and universities.

+ BOT	2010/L	General Botany/Lab	.....4
+ CHM	2045/L	General Chemistry I/Lab	.....4
+ CHM	2046/L	General Chemistry II/Lab	.....4
+ GLY	2010/L	Physical Geology/Lab	.....4
		[GLY x010C]	
+ MAC	2311	Analytic Geometry & Calculus I	.....4
		[MAC x311]	
+ PHY	2048/L	University Physics I/Lab	.....4
		[PHY x048/L]	
+ STA	2023	Elements of Statistics	.....3
		[STA x023]	

+ Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives (0-10 sh)

Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement.

Major (42 sh)

EVR 4023	Coastal & Marine Environments.....	3
GEO 3210/L	Geomorphology/Lab.....	4
GEO 3250/L	Weather & Climate/Lab	4
GEO 3260/L	Geography of Soils/Lab	4
GEO 4221/L	Coastal Morphology and Processes/Lab	4
GEO 4280/L	Basic Hydrology/Lab	4
GEO 4332	Senior Seminar	1
GIS 3015/L	Cartographic Skills/Lab	4
GIS 4035/L	Photo Interpretation & Remote Sensing/Lab	4
GIS 4043/L	Geographic Information Systems/Lab	3
GIS 4071	Methods & Techniques in Environmental Resource Management and Planning	3
GLY 3031C	Environmental Geology	4

Major-Related (18 sh)

BOT 3601/L	Plant Ecology/Lab	4
CHM 3120/L	Analytical Chemistry/Lab	4
PCB 4043/L	Ecology/Lab	4
3000/4000 level Statistics (STA) course	.....	3

Choose one:

ENC 3240	Technical Writing	3
EVR 3894	Environmental Writing	3

Upper Division Electives (0 sh)**GEOGRAPHY****General Studies (36 sh)**

Geography majors should take ANT 2000 to meet the social science/behavioral perspectives component, GEA 2000 to meet the social science/socio-political perspectives component, STA 2023 to partially meet the mathematics component, and GEO 1200/L and one of the other common prerequisite science courses to meet the science component.

For additional information see the General Studies section of this *Catalog*.

Common Prerequisites (21 sh)

+ ANT 2000	Introduction to Anthropology	3
+ GEA 2000	Nations & Regions of the World.....	3
+ GEO 1200/L	Physical Geography/Lab	4
+ STA 2023	Elements of Statistics	3

Choose one:

+ BOT 2010/L	General Botany/Lab	4
+ BSC 1005/L	General Biology for Non-Majors/Lab	4
+ BSC 2311/L	Introduction to Oceanography & Marine Biology/Lab	4
+ ZOO 1010/L	General Zoology/Lab	4

Choose one:

+ CHM 1032/L	Fundamentals of General Chemistry/Lab	4
+ CHM 2045/L	General Chemistry I/Lab	4

+ Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives (3-19 sh)

Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement.

Major (47-48 sh)

EVR 4412	Environmental Aspects of Urban Growth	3
EVR 4870	Land-Use Management	3
GEO 3210/L	Geomorphology/Lab.....	4
GEO 3250/L	Weather & Climate/Lab	4
GEO 3372	Conservation of Natural Resources	3
GEO 3421	Cultural Geography	3
GEO 4332	Senior Seminar	1
GIS 3015/L	Cartographic Skills/Lab	4
GIS 4035/L	Photo Interpretation & Remote Sensing/Lab	4
GIS 4043/L	Geographic Information Systems/Lab	3
GIS 4048	Applications in Geographic Information Systems	3
GIS 4071	Methods & Techniques in Environmental Resource Management and Planning	3

Choose one:

GEO 3471	Geography of World Affairs	3
GEO 3502	Economic Geography.....	3

Choose one:

GEA 4212	Geography of North America	3
GEA 4405	Geography of Latin America	3

Choose one:

EVR 4023	Coastal & Marine Environments.....	3
GEO 4221/L	Coastal Morphology & Processes/Lab.....	4

Major-Related (6 sh)*Choose one:*

ENC 3240	Technical Writing	3
EVR 3894	Environmental Writing	3

Choose one:

ANT 3141	Origins of Civilization	3
ANT 3158	Florida Archaeology	3
ANT 3312	North American Indians	3
ANT 3403	Cultural Ecology.....	3
ANT 3620	Language and Culture	3

Upper Division Electives (6-7 sh)

Sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or completion of all departmental requirements at the 3000/4000 level, whichever is greater. Recommend Geography students complete their upper-level electives by enrolling in PCB 4043/L Ecology and/or Anthropology electives.

MINORS

Environmental Studies (17-18 sh)

An Environmental Studies Minor consists of 17-18 sh; at least 9 of which must be taken at UWF. Directed studies may not be used. Environmental Studies majors may not earn this minor.

EVR 4035	Environmental Law.....	3
GEO 1200/L	Physical Geography/Lab	4
GEO 3372	Conservation of Natural Resources.....	3
GLY 3031C	Environmental Geology	4

Choose one:

EVR 4023	Coastal & Marine Environments.....	3
EVR 4037	Environmental Auditing	3
EVR 4870	Land-Use Management	3
EVR 4941	Practicum in Environmental Studies	3
GEO 3250/L	Weather & Climate/Lab	4
GEO 4221/L	Coastal Morphology & Processes/Lab.....	4
GEO 4333	Seminar in Environmental Issues.....	3

Geography Minor (20-22 sh)

A Geography Minor consists of 20-22 sh of courses. Of the 13 upper-division level hours, a minimum of 9 sh must be taken at UWF. Directed studies may not be used. Students in the Geography Specialization may not earn this minor.

GEA 2000	Nations & Regions of the World.....	3
GEO 1200/L	Physical Geography/Lab	4
GEO 3421	Cultural Geography	3
GIS 3105/L	Cartographic Skills/Lab	4
3000/4000 level	GEA/GEO/GIS electives	6-8