

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, 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.

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 (54-56 sh)

Environmental Studies Core (22-23 sh)

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	4

Choose one:

GEO	4xxx	Geostatistics.....	3
STA	4173	Biostatistics	3

Choose one:

GIS	4036	Applications in Remote Sensing	3
GIS	4048	Applications in GIS.....	3
GIS	4071	Methods & Techniques in Environmental Resource Management & Planning	3

Choose one:

BSC	4303	Biogeography	3
GEO	4316	Landscape Biogeography	3
PCB	4043/L	Ecology/Lab	4

Environmental Studies

Policy Specialization (32-33 sh)

EVR	4035	Environmental Law.....	3
GEO	3372	Conservation of Natural Resources	3
GEO	4333	Seminar in Environmental Issues.....	3

Choose one:

EVR	4037	Environmental Auditing	3
EVR	4823	Environmental Impact Assessment	3

Choose one:

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

Choose one:

EVR	4050	Environmental Field Research	3
EVR	4941	Practicum in Environmental Studies	3
GIS	4944	GIS Internship	3

Choose two:

GEO	3210/L	Geomorphology/Lab.....	4
GEO	3250/L	Weather and Climate/Lab	4
GEO	3260/L	Geography of Soils/Lab	4
GEO	4280/L	Basic Hydrology/Lab	4

Choose two:

EVR	4412	Environmental Aspects of Urban Growth	3
EVR	4870	Land-Use Management	3
PHI	3640	Environmental Ethics	3

Major-Related (3 sh)

Choose one:

ENC	3240	Technical Writing	3
EVR	3894	Environmental Writing	3

Upper Division Electives (1-3 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 (55-56 sh)

Environmental Studies Core (22-23 sh)

Same as Environmental Policy Specialization

Environmental Studies Natural Science
Specialization (33 sh)

EVR	4023	Coastal & Marine Environments.....	3
GEO	3210/L	Geomorphology/Lab	4
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
GLY	3031C	Environmental Geology	4

Choose one:

GLY	4xxx	Geochemistry	3
GLY	4xx1	Biogeochemistry.....	3

Choose one:

EVR	4035	Environmental Law.....	3
EVR	4050	Environmental Field Research	3
EVR	4941	Practicum in Environmental Studies	3
GIS	4944	GIS Internship	3
PHI	3640	Environmental Ethics	3

Major-Related (3 sh)

Same as Environmental Policy Specialization

Upper Division Electives (1-2 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.

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 (55-57 sh)

Environmental Studies Core (22-23 sh)

Same as Environmental Policy Specialization

Geography Specialization (33-34 sh)

GEO	3210/L	Geomorphology/Lab.....	4
GEO	3250/L	Weather and Climate/Lab	4
GEO	3372	Conservation of Natural Resources	3
GEO	3421	Cultural Geography	3

Choose one:

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

Choose one:

GEO	3260/L	Geography of Soils/Lab	4
GEO	4280/L	Basic Hydrology/Lab	4

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
GEA 4635	Geography of the Middle East	3

Choose one:

EVR 4412	Environmental Aspects of Urban Growth	3
EVR 4870	Land-Use Management	3

Choose one:

EVR 4050	Environmental Field Research	3
EVR 4941	Practicum in Environmental Studies	3
GIS 4944	GIS Internship	3

Major-Related (3 sh)

Same as Environmental Policy Specialization

Upper Division Electives (0-2 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.

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 3015/L	Cartographic Skills/Lab	4
3000/4000 level GEA/GEO/GIS electives		6-8

Note: Changes to all specializations in the Environmental Studies Program included above have been proposed by the department and are pending Faculty Senate and University approval. Approval is expected before the beginning of the academic year.