

ENVIRONMENTAL STUDIES

Degree: Bachelor of Science
 Specializations : Environmental Policy
 Geography
 Natural Science
 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), Z. Hu, M.C. Schwartz, J.D. Waldron

This interdisciplinary program offers a B.S. degree in Environmental Science. 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 environmental monitoring/regulation, regional planning, and resource management; for positions in industry and the private sector; or to pursue graduate degrees in environmental science/studies, geography, geology, GIScience, coastal science/management, natural resource management, and urban/regional planning.

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 that 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	4164	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/socio-political 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
	[BOT X010/L]	
+CHM 2045/L	General Chemistry I/Lab	4
	[CHM X045/L]	
+CHM 2046/L	General Chemistry II/Lab	4
	[CHM X046/L]	
+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 4240	Geochemistry.....	3
GLY 4244	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 SPECIALIZATION

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
	[ANT X000]	
+GEA 2000	Nations & Regions of the World.....	3
	[GEA X000]	

+GEO 1200/L	Physical Geography/Lab	4
	[GEO X200/L]	
+STA 2023	Elements of Statistics.....	3
	[STA X023]	

Choose one:

+BOT 2010/L	General Botany/Lab	4
	[BOT X010/L]	
+BSC 1005/L	General Biology for Non-Majors/Lab	4
	[BSC X005/L]	
+BSC 2311/L	Introduction to Oceanography & Marine Biology/Lab	4
	[BSC X311/L]	
+ZOO 1010/L	General Zoology/Lab.....	4
	[ZOO X010/L]	

Choose one:

+CHM 1032/L	Fundamentals of General Chemistry/Lab	4
	[CHM X032/L]	
+CHM 2045/L	General Chemistry I/Lab	4
	[CHM X045/L]	

+ 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