

UF IFAS
UNIVERSITY of FLORIDA



SOIL, WATER, AND
ECOSYSTEM SCIENCES



SCHOOL OF NATURAL
RESOURCES AND
ENVIRONMENT

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SCHOOL OF NATURAL
RESOURCES AND
ENVIRONMENT

An Equal Opportunity Institution.

UF ONLINE
Interdisciplinary Studies:
ENVIRONMENTAL MANAGEMENT
in Agriculture & Natural Resources

snre.ufl.edu

soils.ifas.ufl.edu

The School of Natural Resources and Environment and the Department of Soil, Water, and Ecosystem Sciences offer several environmental sciences programs. The **UF Online Interdisciplinary Studies: Environmental Management in Agriculture and Natural Resources** Bachelor of Science degree program provides the scientific and technical foundation to integrate and communicate the diverse environmental issues associated with urban, agricultural, and natural ecosystems. Students develop an understanding of the best use of our natural resources for their social and economic benefits while protecting associated resource values, property rights, and the environment. This degree provides a solid grounding in the areas of hydrology, soil science, pest management, water resources, and agricultural ecology.

COURSE REQUIREMENTS

Lower division courses are selected to create a strong background in physical and biological sciences, communications, and mathematics. These are critical courses for developing a good understanding of environmental science.

LOWER DIVISION REQUIREMENTS:

Physical Sciences:	CHM 2045 with CHM 2045L & CHM 2046 with CHM 2046L
Biological Sciences:	BSC 2005 with BSC 2005L or BSC 2010 with BSC 2010L
Mathematics:	MAC 2233
Statistics:	STA 2023
Public Speaking:	AEC 3030c or SPC 2608

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES (CAL S) REQUIREMENTS:

Economics:	AEB 2014, ECO 2013, or ECO 2023
Advanced Written Communication:	ENC 2210 or AEC 3033C

CORE CURRICULUM REQUIREMENTS • 42-43 CREDITS

A core set of courses dealing with land, water, natural resource policy, management and geographic information systems provides a solid background in environmental management:

Course #	Course Title	Credits
AEB 3133 or MAN 3025	Principles of Agribusiness Management or Principles of Management	3-4
ALS 3133	Agriculture and Environmental Quality	3
ALS 3153	Agricultural Ecology or equivalent	3
AOM 4643	Environmental Hydrology	3
FNR 4660C	Natural Resource Policy and Administration	3
GLY 2030C	Environmental and Engineering Geology	3
IPM 3022 or ENY 3005 with ENY 3005L	Fundamentals of Pest Management or Principles of Entomology with Lab	3
PHY 2020	Principles of Physics	3
SWS 3022	Introduction to Soils in the Environment	3

Course #	Course Title	Credits
SWS 4116	Environmental Nutrient Management	3
SWS 4223	Environmental Biogeochemistry	3
SWS 4244	Wetlands	3
SWS 4720C	GIS in Soil and Water Sciences	3
SWS 4905/4941	Individual Work/Practical Work Experience	3

ELECTIVES • 18 CREDITS

The electives may be customized at the discretion of the student and advisor. Students are expected, with the aid and approval of their advisor, to select a suite of electives that will accomplish their goals for this major.

POTENTIAL CAREERS

- Sustainable food and fiber production
- Environmental policy and analysis
- Water resources
- Energy resources
- Soil conservation
- Stewardship of natural resources
- Pollution management
- International development
- Environmental and agricultural education

POTENTIAL EMPLOYERS

- Agricultural producers/Agribusiness
- Environmental and agricultural consulting firms
- Agricultural input manufacturers and sellers
- Governmental agricultural service agencies/Extension Service
- Natural Resources Conservation Service
- Soil & Water Conservation Districts
- Florida Water Management Districts
- Federal & State regulatory agencies
- Park and natural lands agencies

ENVIRONMENTAL SCIENCES PROGRAMS

School of Natural Resources and Environment and the Department of Soil, Water, and Ecosystem Sciences

- Bachelor of Arts or Bachelor of Science in Environmental Science
- Bachelor of Science in Interdisciplinary Studies - Environmental Management (on campus or UF Online)
- Bachelor of Science in Soil, Water, and Ecosystem Sciences – Specialization in Soil Science or Water Science
- Combined BS/MS in Soil, Water, and Ecosystem Sciences or in Environmental Science and Interdisciplinary Ecology
- Minor in Soil, Water, and Ecosystem Sciences or in Environmental Science