
Bachelor of Science ENVIRONMENTAL SCIENCE

GENERAL EDUCATION (58 CRS)

Area I: Communications (9 crs)

- ENG 111 English Composition I (3)
- SPCH 130 Public Speaking (3)

Choose one of the following two courses:

- ENG 112 English Composition II (3)
- ENG 116 Technical Writing (3)

Area II: Mathematics (10 crs)

- MATH 145 Introduction to Probability and Statistics (3)
- MATH 150 College Algebra (3)
- MATH 162 Calculus I (4)

Area III: Laboratory Sciences (24 crs)

- BIOL 202/L Genetics with Lab (4)
- BIOL 203/L Ecology and Evolution with Lab (4)
- BIOL 210/L Microbiology with Lab (4)
- CHEM 121/L General Chemistry I with Lab (4)
- CHEM 210/L Integrated Organic & Biochemistry with Lab (4)
- Choose one of the following:*
- ES 201L Environmental Physical and Chemical Processes with Lab (4)
- CHEM 122/L General Chemistry II with Lab (4)

Area IV: Social and Behavioral Sciences (6-9)*

- Electives from page 25-26 (6-9 crs)*

Area V: Humanities and Fine Arts (6-9)*

- PHIL 220 Ethics (3)
- Electives from pages 26-27 (3-6).

Health, Physical Education & Recreation (1 cr)

- Electives (1)

PROGRAM REQUIREMENTS (33 CRS)

- ES 112/L Introduction to Environmental Sciences I with Lab (4)
- ES 125 Principles of Physical Hydrology (3)
- ES 203 Introduction to GIS/GPS and Cartography (2)
- ES 307 Atmospheric Science (3)
- ES 320 Environmental Ethics (3)
- ES 338 Environmental Law and Regulations (3)
- ES 350 Watershed Hydrology and Management (3)
- ES 401 Community Participation in Environmental Planning (3)
- ES 412 Environmental Health and Toxicology (3)
- ES 415 Energy and Resource Development (3)
- ES 480 Senior Capstone—Field Experience (3)

YOU MUST CHOOSE ONE OF THE FOLLOWING MAJORS (33–34 CRS):

Agriculture (35 crs)

- BIOL 360/L Botany with Lab (4)

- ES 225 Principles of Agricultural Ecology (3)
- ES 308 Invasive Species (3)
- ES 311 Plant Pathology (3)
- ES 340 Principles in Crop Production (3)
- ES 365 Principles of Sustainable Agriculture (3)
- ES 410 Soil Testing and Interpretation (3)
- ES 410L Soil Testing and Interpretation Lab (1)
- ES 411 Soil Management and Fertility (3)
- ES 416 Irrigation and Drainage (3)
- ES 457 Economics, Food, and Agriculture in Industrial Development (3)
- Electives (3 crs) Upper-division courses (as approved by dept. advisor)

Environmental Science and Monitoring (35 crs)

- ES 121 Environmental Air Monitoring (3)
- ES 330 Principles of Environmental and Occupational Health (3)
- RAD 234L Introduction to Radiation Science and Technology (4)
- ES 315 Technology and the Environment (3)
- ES 333 Radiation Biology (3)
- ES 336 Environmental Sampling and Instrumentation (3)
- ES 336L Environmental Sampling and Instrumentation Lab (3)
- ES 400 Environmental Management (3)
- ES 402 Environment, Economics, and Sustainability (3)
- ES 410 Soil Testing and Interpretation (3)
- ES 410L Soil Testing and Interpretation Lab (1)
- Electives (3 crs) Upper-division courses (as approved by dept. advisor)

Concentration Area: Natural Resources Science and Management (37 crs)

- ES 308 Invasive Species (3)
- ES 103 Introduction to Natural Management (3)
- FOR 113 Dendrology (3)
- ES 310 Mensuration and Biometrics (3)
- ES 317 Rangeland Management (3)
- ES 318 Silviculture (3)
- ES 404 Forest Health, Restoration, and Management (3)
- ES 410/L Soil Testing and Interpretation (4)
- ES 411 Soil Management and Fertility (3)
- ES 414 Wildland Fire Management (3)
- Electives (3 crs) Upper-division courses (as approved by dept. advisor)

TOTAL CREDITS 128