



Bachelor of Science

ENVIRONMENTAL SCIENCE/2014-2016

GENERAL EDUCATION (62 CR) SEE PAGES 25-28

Area I. Communications (9 cr)

- ENG 111 English Composition I (3)
- ENG 116 Technical Writing (3)
- SPCH 130 Public Speaking (3)

Area II. Mathematics (10 cr)

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

Area III. Laboratory Sciences (24 cr)

- 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/Behavioral Sciences (6-9 cr)

Area V. Humanities and Fine Arts (6-9 cr)

- HUM 100 FYE: History and Culture of Northern New Mexico (3)
- PHIL 220 Ethics (3)

Area VI. Library Technology (1 cr)

- LT 101 Library Research Skills (1)

Area VII. Foreign Language (3 cr)

PROGRAM REQUIREMENTS (34 CR)

- ES 112/L Introduction to Environmental Sciences I with Lab (4)
- ES 325 Principles of Physical Hydrology (3)
- ES 203 Introduction to GIS/GPS and Cartography (3)
- ES 320 Environmental Ethics (3)
- ES 338 Environmental Law and Regulations (3)
- ES 3XX Undergraduate Research Experience (3)
- ES 250 Watershed and Hydrology Management (3)
- ES 401 Community Participation in Environmental Planning (3)
- ES 412 Environmental Health and Toxicology (3)
- ES 415 Energy and Resource Development (3) (WIC)
- ES 480 Senior Capstone—Field Experience (3)

YOU MUST CHOOSE ONE OF THE FOLLOWING MAJORS (35-37 CR):

Agriculture (36 cr)

- BIOL 360/L Plant Biology with Lab (4)
- ES 211/L Introduction to Soil Science and Management (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, & Agriculture in Industrial Development (3)
 Electives (3 cr) Upper-division courses (as approved by dept. advisor)

Environmental Science and Monitoring (35 cr)

ES 121 Environmental Air Monitoring (3)
 ES 307 Atmospheric Science (3)
 ES 330 Principles of Environmental and Occupational Health (3)
 RAD 234 Introduction to Radiation Science and Technology (4)
 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 cr) Upper-division courses (as approved by dept. advisor)

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

ES 103 Introduction to Natural Resource Mgmt & Science (3)
 FOR 113 Dendrology (3)
 ES 120 Forest and Range Ecology (3)
 ES 308 Invasive Species (3)
 ES 310 Mensuration and Biometrics (3)
 ES 317 Rangeland Management (3)
 ES 318 Silviculture (3) (WIC)
 ES 404 Forest Health, Restoration, and Management (3)
 ES 410 Soil Testing and Interpretation (3)
 ES 410L Soil Testing and Interpretation Lab (1)
 ES 411 Soil Management and Fertility (3)
 ES 414 Wildland Fire Management (3)
 ES 319 Principles of Wildlife Science & Mgmt (3)

TOTAL CREDITS: 131-133