

Bachelor of Science ENVIRONMENTAL SCIENCE 2012-2014

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)
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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