

**University Requirements**

**Area I. Communications (10 credits)**

ENGL 111G (4) Rhetoric and Composition  
ENGL 218G (3) Technical and Sci. Comm. or 318G (3) Adv. Tech. Sci. Comm.  
AXED 201G (3) Leadership and Comm. or COMM 253G (3) Public Speaking or COMM 265G (3) Principles of Human Communication

**Area II. Mathematics (3-4 credits)**

MATH 142G (3) Calculus for the Biological and Management Sciences or MATH 192G (4) Calculus and Analytic Geometry II

**Area III/IV. Laboratory and Social/Behavioral Sciences (11 credits)**

CHEM 111G (4) General Chemistry I  
CHEM 112G (4) General Chemistry II  
ECON 201G (3) Introduction to Economics or ECON 251G (3) Principles of Macroeconomics or ECON 252G (3) Principles of Microeconomics

**Area V. Humanities (3 credits)**

See Catalog for additional eligible courses

**Area VI. Creative and Fine Arts (3 credits)**

See Catalog for additional eligible courses

**General Education Elective (3-4 credits)**

FWCE 110G/L (4) Introduction to Natural Resources Management

**Viewing a Wider World (6 credits; 300-400 level)**

3 credits can be taken inside the College of Aces, but 3 credits must also be taken outside the College of Aces or to fulfill this 3 cr requirement, 9 credits can be taken within a single department (e.g. Biology) that is outside the College of Aces. This is the "9 credit rule"

**55 must be upper division and  
66 must be from a 4-year degree granting institution  
120 total credits required**

**Major Requirements (53 credits minimum)**

BIOL 111G/L (4) Natural History of Life  
BIOL 211G/L (4) Cellular and Organismal Biology  
BIOL 301 (3) Principles of Ecology or FWCE 301 (3) Wildlife Ecology  
BIOL 305 or AGRO 305 (3) Principles of Genetics  
BIOL 312 (3) Plant Taxonomy or RGSC 316 (3) Rangeland Plants  
BIOL 313 (3) Structure and Function of Plants  
BIOL 322 (3) Zoology  
BIOL 455 (3) Biometry or FWCE 457 Ecological Biometry  
BIOL 462 (3) Conservation Biology  
BIOL 467 (3) Evolution  
BIOL 488 (3) Principles of Conservation Genetics or BCHE 341 (3) Survey of Biochemistry  
FWCE 255 (3) Principles of Fish and Wildlife Management  
FWCE 330 (4) Natural History of the Vertebrates  
FWCE 402 (1) Seminar in Natural Resource Management  
FWCE 409 (3) Introduction to Population Ecology  
FWCE 447 (3) Wildlife Law and Policy  
FWCE 464 (4) Management of Aquatic and Terrestrial Ecosystems

**Non-Departmental Requirements (12 credits)**

PHYS 211G/L (4) General Physics I & PHYS 212G/L (4) General Physics II or PHYS 221G/L (4) General Physics for Life Sciences I & Lab and  
PHYS 222G/L (4) General Physics for Life Sciences II & Lab  
CHEM 211 (4) Organic Chemistry

**Requirements in Physiology: Select one of the following (3/4 credits)**

ANSC 370 (4) Anatomy and Physiology of Farm Animals  
BIOL 314 (3) Plant Physiology  
BIOL 354 (3) Physiology of Humans & BIOL 354L (1) Pre-Professional Human Anatomy Lab  
BIOL 381 (3) Animal Physiology  
FWCE 432 (3) Environmental Biology of Fishes

**Requirements in Diversity of Life: any two courses (total credits = 6/8)**

BIOL 408 (3) Ecology of Plants  
BIOL 465 (4) Invertebrate Zoology  
BIOL 480 (3) Animal Behavior  
EPWS 303 (3) Economic Entomology  
EPWS 462 (3) Parasitology  
FWCE 430 (4) Avian Field Ecology or BIOL 447 (3) Ornithology  
FWCE 431 (4) Mammalogy  
FWCE 467 (4) Herpetology  
FWCE 482 (4) Ichthyology

**Other Related Courses**

A ST 311 (3) Statistical Application  
BIOL 436 (3) Disease Vector Biology  
BIOL 442 (3) Genomics Technology  
BIOL 446 (3) Bioinformatics & NCBI Database  
BIOL 469 (3) Biology of Emerging Infectious Diseases  
BIOL 489 (3) Genetic Aspects of Population Biology  
ECON 337V (3) Natural Resource Economics  
FWCE 471 (4) GIS for Natural Resources Scientists  
GEOG 381 (3) Cartography & GIS  
GEOG 481 (3) Fundamentals of Geographic Information Systems  
GEOL 111G (4) Survey of Geology  
GEOL 295 (3) Environmental Geology  
GEOL 424 (3) Soil Chemistry  
GOVT 378 (3) U.S.-Mexico Border Politics  
RGSC 318 (3) Watershed Management  
RGSC 325 (3) Rangeland Restoration Ecology  
RGSC 452 (3) Rangeland Vegetation Measurements for Rangeland Assessment  
TOX 423 (3) Environmental Toxicology

Student's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Advisor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Department Head's Signature: \_\_\_\_\_ Date: \_\_\_\_\_