

BACHELOR OF SCIENCE IN NATURAL RESOURCES MANAGEMENT

The Natural Resources Management (NRM) program is structured to introduce students to a wide range of renewable natural resources (soils, water, vegetation, wildlife, recreation), while maintaining substantial flexibility for student-centered learning in understanding and managing natural systems. It is based on a vision that combines professional competency in management skills with a strong foundation in the social and biophysical sciences.

The program develops professional skills that employers tell us are the most important traits they look for in new employees. These traits are developed through a broad base of classes in the natural sciences, social sciences and humanities, communication, and quantitative and qualitative problem-solving skills. The majority of work scheduled during the first two years (lower division) is in these areas. This major prepares students to be well-rounded natural resources managers.

Natural resources management offers a wide variety of employment opportunities. Our graduates are working throughout the United States as professional natural resource managers in private industry, public agencies, and for nonprofit organizations. Their duties can range tree care to recreation planning to environmental education to water and soil resource conservation, to name a few.

The educational program, leading to the professional degree in Natural Resources Management, is accredited by the Society of American Foresters (SAF) under Natural Resources and Ecosystem Management.

Lower Division Required Courses

APM 103

OR

APM 104

APM 210

EFB 100

ESF 200

EWP 190

EWP 220

EWP 290

FCH 110

AND

FCH 111

OR

FCH 150

AND

FCH 151

FOR 132

FOR 110

FOR 207

FOR 232

FOR 360

FOR 372

LSA 233

Lower Division General Education Courses

Course	Codes*	Credits
General Education Course in one of the following categories: US History & Civic Engagement, The Arts, World History and Global Awareness, World Languages	G	3
General Education Course in Diversity, Equity, Inclusion and Social Justice	G	3
Sociology or Psychology Course One course from EST 203, SOC 101 or PSY 205.		3

Upper Division Required Courses

ESF 300

FOR 205

FOR 304

FOR 322

FOR 333

FOR 345

FOR 465

FOR 475

FOR 485

FOR 490

Upper Division Directed Elective Courses

Course	Codes*	Credits
Vegetation Management Directed Elective (see list below)		3
Technical Writing Directed Elective Directed Elective (see list below)		3
Water Resources Directed Elective Directed Elective (see list below)		3
Wildlife or Fisheries Course Directed Elective (see list below)		3 - 4
Specialized NRM Directed Elective: Two upper division courses with a Natural Resources focus (see list below)		6
Free electives		21

Specialized NRM Directed Electives

Vegetation Management

- FOR 334 Silviculture
- FOR 433 Advanced Silviculture
- FOR 480 Urban Forestry
- FOR 481 Introduction to Arboriculture

Policy and Law

- FOR 487 Environmental Law and Policy
- FOR 489 Natural Resources Law

Human Dimensions

- EST 353 Behavior Change and the Environment
- EST 366 Environmental Ethics
- EST 370 Introduction to Personal Environmental Interpretation Methods

- EST 390 Social Processes and the Environment
- EST 474 Advanced Interpretation and Environmental Education
- FOR 421 Practical Ethics for Resource Managers F

Water Resources

- EFB 424 Limnology: Study of Inland Waters
- EFB 542 Freshwater Wetland Ecosystems
- FOR 340 Watershed Hydrology
- FOR 442 Watershed Ecology and Management
- GEO 422 Water: Environment, Society and Politics

Wildlife or Fisheries

- EFB 390 Wildlife Ecology and Management
- EFB 413 Introduction to Conservation Biology
- EFB 484 Mammalian Winter Ecology
- EFB 487 Fisheries Science and Management
- EFB 502 Ecology & Management of Invasive Species

Geospatial Information Technology (GIT)

- EAR 410 Applications of GIS in the Earth Sciences
- ERE 365 Principles of Remote Sensing
- GEO 381 Cartographic Design
- GEO 482 Environmental Remote Sensing
- FOR 458 Advanced Topics in GIS

Sustainable Energy

- SRE 325 Energy Systems
- SRE 416 Sustainable Energy Policy
- SRE 422 Energy Markets and Regulations
- SRE 441 Biomass Energy
- SRE 454 Renewable Energy Finance and Analysis
- SRE 479 Life Cycle Assessment

Total Minimum Credits for Degree: 122

