

Educational Requirements for Forest Management Specialists

Updated 27Aug19

The undergraduate program in Forest Ecology and Management at Utah State University is designed to provide students with the skills necessary for both professional employment in forest management and the pursuit of graduate studies in ecology and natural resources. A wide variety of subjects, including biophysical sciences, resource policy and economics, human-environment relationships, and resource assessment and planning, are integrated into a broad curriculum. The undergraduate program is accredited by the Society of American Foresters, and it meets federal Office of Personnel Management (OPM) requirements for the Forestry Series 0460.

OPM Forestry Educational Requirements

<https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/0400/forestry-series-0460/>

OPM Requirements (29Aug19)	USU Forest Ecology and Management Undergraduate Program Required Courses
<p><u>Degree Requirement:</u> Forestry; or a related subject-matter field that included a total of at least 30 semester hours in any combination of biological, physical, or mathematical sciences or engineering, of which at least 24 semester hours of course work were in forestry.</p>	<p><i>Biological, physical, or mathematical sciences:</i> BIOL 1610: Biology I/BIOL 1615: Biology I Laboratory (4 sem. hrs.) BIOL 1620: Biology II (BLS)/BIOL 1625: Biology II Laboratory (4 sem. hrs.) MATH 1050: College Algebra (4 sem. hrs.) MATH 1100: Calculus Techniques (3 sem. hrs.) WATS 2220: General Ecology (3 sem. hrs.) CHEM 1110: General Chemistry I (4 sem. hrs.) STAT 2000: Statistical Methods (4 sem. hrs.) -OR- STAT 3000: Statistics for Scientists (3 sem. hrs.) WILD 3810: Plant and Animal Populations (3 sem. hrs.) SUBTOTAL: 28-29 sem. hrs.</p> <p><i>Forestry:</i> WILD 3850: Vegetation and Habitat Management (3 sem. hrs.) WILD 3100: Introduction to Wildland Fire (3 sem. hrs.) WILD 5710: Forest Vegetation Disturbance Ecology and Management (3 sem. hrs.) WILD 3800: Wildland Plants and Ecosystems (4 sem. hrs.) WILD 3820: Forest Plants: Identification, Biology, and Function (3 sem. hrs.) WILD 5700: Forest Assessment and Management (3 sem. hrs.) WILD 4750: Monitoring and Assessment in Natural Resource and Environmental Management (4 sem. hrs.) WILD 5350: Wildland Soils (3 sem. hrs.) SUBTOTAL: 26 sem. hrs.</p> <p>GRAND TOTAL: 78-79 cr.</p>

OPM Requirements for FEMA, continued.

OPM Requirements (29Aug19)	USU Forest Ecology and Management Undergraduate Program Courses
<p>The curriculum must have been sufficiently diversified to include courses in each of the following areas:</p>	
<p><i>Management of Renewable Resources</i> -- study of the science and art of managing renewable resources to attain desired results. Examples of creditable courses in this area include silviculture, forest management operations, timber management, wildland fire science or fire management, utilization of forest resources, forest regulation, recreational land management, watershed management, and wildlife or range habitat management.</p>	<p>APEC 3012: Introduction to Natural Resource and Regional Economics (3 sem. hrs.) ENVS 3300: Fundamentals of Recreation Resources Management (3 sem. hrs.) ENVS 3010: Fundamentals of Natural Resource and Environmental Policy (3 sem. hrs.) ENVS 4000: Human Dimensions of Natural Resource Management (3 sem. hrs.) WATS 3700: Fundamentals of Watershed Science (3 sem. hrs.) WILD 3850: Vegetation and Habitat Management (3 sem. hrs.) WILD 3100: Introduction to Wildland Fire (3 sem. hrs.) WILD 5710: Forest Vegetation Disturbance Ecology and Management (3 sem. hrs.) TOTAL: 24 sem. hrs.</p>
<p><i>Forest Biology</i> -- study of the classification, distribution, characteristics, and identification of forest vegetation, and the interrelationships of living organisms to the forest environment. Examples of creditable courses in this area include dendrology, forest ecology, silvics, forest genetics, wood structure and properties, forest soils, forest entomology, and forest pathology.</p>	<p>WILD 2400: Wildland Resource Techniques (3 sem. hrs.) WILD 5350: Wildland Soils (3 sem. hrs.) WILD 3800: Wildland Plants and Ecosystems (4 sem. hrs.) WILD 3820: Forest Plants: Identification, Biology, and Function (3 sem. hrs.) TOTAL: 13 sem. hrs.</p>
<p><i>Forest Resource Measurements and Inventory</i> -- sampling, inventory, measurement, and analysis techniques as applied to a variety of forest resources. Examples of creditable courses include forest biometrics, forest mensuration, forest valuation, statistical analysis of forest resource data, renewable natural resources inventories and analysis, and photogrammetry or remote sensing.</p>	<p>WILD 1800: Introduction to Geographic Information Sciences (3 sem. hrs.) WILD 4750: Monitoring and Assessment in Natural Resource and Environmental Management (4 sem. hrs.) WILD 5750: Applied Remote Sensing (3 sem. hrs.) WILD 5700: Forest Assessment and Management (3 sem. hrs.) TOTAL: 13 sem. hrs.</p>