Forestry

Five specializations are offered within the major in forestry: Forest Resources Management, Forest Hydrology, Urban Forest Management, Forest Recreation and Park Management, and Wildlife Habitat Management and Conservation. University Core Curriculum requirements and a core of professional courses are similar for each specialization. Students majoring in the Department of Forestry may not take courses specifically required in the various specializations for pass/fail credit. The specializations are accredited by the Society of American Foresters, 5400 Grosvenor Lane, Bethesda, MD, 20814, (301) 897-8720.

Available to the Department of Forestry for teaching and research in addition to resources present on campus are the following: the Crab Orchard National Wildlife refuge; the Shawnee National Forest; a number of state parks and state forests; conservation areas and federal reservoirs. Collectively, these public lands and waters offer considerable and diverse outdoor educational and recreational opportunities, all in the vicinity of the University.

The curricula of the Department of Forestry prepare graduates for employment with local, state and federal natural resource agencies, as well as private industry. In addition, many graduates continue their education in advanced masters and doctoral programs. Federal agencies employing our graduates include the Forest Service, Natural Resources Conservation Service, Fish and Wildlife Service, National Park Service, Bureau of Reclamation, Bureau of Land Management, Environmental Protection Agency, Tennessee Valley Authority, and the Army Corps of Engineers. There are also employment opportunities in state government with agencies such as fish and game commissions, departments of natural resources and conservation, and forest services. At the local level, there are opportunities with urban forest and park systems. Private agencies have included Ducks Unlimited, the Nature Conservancy, the National Audubon Society and the American Forestry Association. Forestry graduates often are employed by private forestry consulting firms and by private industries such as Weyerhaeuser Co., International Paper Co., Georgia Pacific Corporation, and New Page Corporation.

Bachelor of Science Degree in Forestry, College of Agricultural Sciences

The program in Forest Hydrology helps students develop knowledge and skills in integrated natural resource management in a watershed context with an emphasis on freshwater and forest resources. The goal of the Forest Hydrology specialization is to prepare individuals for water-related careers in federal and state government agencies, municipal/county watershed management, and environmental/engineering consulting firms. This specialization also prepares students for graduate study in natural resource management and hydrology. The specialization includes areas of study recommended and accredited by the Society of American Foresters and includes the course work necessary to qualify as a hydrologist in a federal agency. Students in the specialization are required to participate in either the four week forest resource management or forest recreation and park management summer field camp to gain practical field experience. Costs per student for off-campus living expenses and transportation for summer field-studies are not to exceed $750 and must be borne by the student. Other costs for equipment and supplies, which are required for field study and certain other courses, are specified in course descriptions.
### Forestry Major - Forest Hydrology Specialization

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum Requirements</td>
<td>39</td>
</tr>
<tr>
<td><strong>Requirements for Major in Forestry with Forest Hydrology Specialization</strong></td>
<td>79-82</td>
</tr>
<tr>
<td>Forestry Core: FOR 100, FOR 201, FOR 202, FOR FOR 285, FOR 310, FOR 314, FOR 325, FOR 331, FOR 351, FOR 381, FOR 411, FOR 430</td>
<td>34</td>
</tr>
<tr>
<td>CHEM 140A, Science Requirement: (one of the following) ZOOL 118, PLB 200, or BIOL 213</td>
<td>8</td>
</tr>
<tr>
<td>ABE 204 or ECON 240 ¹</td>
<td>(3)</td>
</tr>
<tr>
<td>ENGL 290 or ENGL 291, MATH 108 or 109 or 140 (12)1+3 or 4 =15 or 16</td>
<td></td>
</tr>
<tr>
<td>Summer Field Studies: FOR 422C or FOR 310C, FOR 314C, FOR 351C, FOR 360C (summer camp)</td>
<td>6</td>
</tr>
<tr>
<td>FOR 402, FOR 421 FOR 429, FOR 452L, (FOR 416 or FOR 420)</td>
<td>13-14</td>
</tr>
<tr>
<td>G.I.S. Course: FOR 308 or GEOG 401</td>
<td>3</td>
</tr>
<tr>
<td>Soils Course: CSEM 240 or FOR 352</td>
<td>3-4</td>
</tr>
<tr>
<td>Forestry Electives (Course Selection): ABE 318, FOR 210, FOR 220, FOR 230, FOR 315, FOR 350, FOR 352, FOR 375, FOR 390, FOR 403, FOR 405, FOR 409, FOR 415, FOR 416, FOR 420, FOR 428, FOR 431, FOR 451, FOR 452L, FOR 454, FOR 460, FOR 470, FOR 480, ERP 330, ERP 401, ERP 431, ERP 433, ERP 434, ERP 471, GEOL 327I, GEOL 470, GEOL 471, GEOL 474, MATH 150, MATH 282, PHYS 203A, PHYS 203B, PLB 445, ZOOL 410, ZOOL 411, ZOOL 414, ZOOL 415, ZOOL 458, ZOOL 466, ZOOL 468 ²</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120-123</td>
</tr>
</tbody>
</table>

1 Hours included in total for University Core Curriculum requirements.

2 **In order to qualify for employment as a federal hydrologist students must complete 6 credit hours of calculus and physics. FOR 415, FOR 416, FOR 420 and GEOL 327I courses may not be used to satisfy more than one requirement.

### Bachelor of Science Degree in Forestry, College of Agricultural Sciences

The program in Forest Resources Management includes instruction leading to careers in forest management and production, forest ecosystem management, and the forest products industries. The goal
of the Forest Resources Management specialization is to develop individuals with sufficient understanding of the physical, biological and economic considerations required to make sound management decisions for forest sustainability. The specialization includes areas of study recommended and accredited by the Society of American Foresters. Emphasis is upon integrated resource management of natural and renewable resources, coordinating forest utilization methods and conservation practices, and sustaining our wild lands heritage. Students in the specialization are required to participate in the four week forest resource management summer field camp (FOR 310C, FOR 314C, FOR 351C, FOR 360C) to gain practical field experience. Costs per student for off-campus living expenses and transportation for summer field-studies are not to exceed $750 and must be borne by the student. Other costs for equipment and supplies, which are required for field study and certain other courses, are specified in course descriptions.

### Forestry Major - Forest Resources Management Specialization

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum Requirements</td>
<td>39</td>
</tr>
<tr>
<td>Management Specialization</td>
<td>79-80</td>
</tr>
<tr>
<td>Forestry Core: FOR 100, FOR 201, FOR 202, FOR 285, FOR 310, FOR 314, FOR 325, FOR 331, FOR 351, FOR 381, FOR 411, FOR 430</td>
<td>34</td>
</tr>
<tr>
<td>CHEM 140A, Science Requirement: (one of the following) ZOOL 118, ZOOL 200B, PLB 200 ¹</td>
<td>(8)</td>
</tr>
<tr>
<td>ABE 204 or ECON 240 ²</td>
<td>(3)</td>
</tr>
<tr>
<td>ENGL 101, ENGL 102, (ENGL 290 or ENGL 291), CMST 101, MATH 106 or MATH 108 or MATH 125 ³</td>
<td>(12) +³ = 15</td>
</tr>
<tr>
<td>Summer Field Studies: FOR 310C, FOR 314C, FOR 351C, FOR 360C</td>
<td>6</td>
</tr>
<tr>
<td>FOR 315, FOR 416</td>
<td>7</td>
</tr>
<tr>
<td>GIS Course: FOR 308 or GEOG 401</td>
<td>3</td>
</tr>
<tr>
<td>Soils Course: FOR 352 or CSEM 240</td>
<td>3-4</td>
</tr>
<tr>
<td>Forestry Electives (Course Selection): ABE 318, FOR 210, FOR 220, FOR 230, FOR 235, FOR 352, FOR 375, FOR 390, FOR 402, FOR 403, FOR 405, FOR 409, FOR 415, FOR 418, FOR 420, FOR 428, FOR 429, FOR 431, FOR 451, FOR 452L, FOR 460, FOR 470, FOR 480, BIOL 307, ERP 401, ERP 471, HORT 420, MATH 282, ZOOL 118, ZOOL 410, ZOOL 468, ZOOL 469 ⁴</td>
<td>23-24</td>
</tr>
<tr>
<td>Total</td>
<td>121</td>
</tr>
</tbody>
</table>

¹ Hours included in total for University Core Curriculum requirements.
2 Hours included in total for University Core Curriculum requirements.
3 Hours included in total for University Core Curriculum requirements
4 Minimum hours required to bring total hours to 120. FOR 352, FOR 415 and ERP 401 courses may not be used for more than one requirement.

The program in Forest Recreation and Park Management provides interdisciplinary training for management of the nation’s outdoor recreation heritage. The National Recreation and Park Association and the Society of American Foresters are among those organizations recommending the courses offered. The goal of the Forest Recreation and Park Management option is to prepare students for entry into professional careers in planning, managing, and administering public lands for outdoor recreation operated by a variety of agencies in diverse geographic and natural settings. The Forest Recreation and Park Management student travels through selected sections of the United States on a park and recreation field studies session to outdoor recreation and protected area facilities. The forest recreation summer camp requires the student pay transportation and living expenses not to exceed $750 and must be borne by the student. Other costs for equipment and supplies, which are required for field study and certain other courses, are specified in course description.

**Forestry Major - Forest Recreation and Park Management Specialization**

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum Requirements</td>
<td>39</td>
</tr>
<tr>
<td>Requirements for Major in Forestry with Forest Recreation and Park Management Specialization</td>
<td>81</td>
</tr>
<tr>
<td>Forestry Core: FOR 100, FOR 201, FOR 202, FOR 285, FOR 310, FOR 314, FOR 325, FOR 331, FOR 351, FOR 381, FOR 411, FOR 430</td>
<td>34</td>
</tr>
<tr>
<td>CHEM 140A, Science Requirement: (one of the following) ZOOL 118, PLB 200</td>
<td>(8)</td>
</tr>
<tr>
<td>ABE 204 or ECON 240</td>
<td>(3)</td>
</tr>
<tr>
<td>ENGL 101, ENGL 102, (ENGL 290 or ENGL 291), CMST 101, MATH 106 or MATH 108 or MATH 125</td>
<td>(12)+3</td>
</tr>
<tr>
<td>Soils Course: FOR 352 or CSEM 240</td>
<td>7-8</td>
</tr>
<tr>
<td>Summer Field Studies: FOR 422C (summer camp)</td>
<td>6</td>
</tr>
<tr>
<td>FOR 220, FOR 420, FOR 421, FOR 423</td>
<td>11</td>
</tr>
<tr>
<td>G.I.S. Course: FOR 308 or GEOG 401</td>
<td>3</td>
</tr>
<tr>
<td>Forestry Electives: ABE 318, ANTH 430A, ANTH 450B, BIOL 307, FOR 210, FOR 230, FOR 308, FOR 315, FOR 350, FOR 352, FOR 375, FOR 390, FOR 401, FOR 402, FOR 403, FOR 405, FOR 409, FOR 415, FOR 416, FOR 428, FOR 429, FOR 430, FOR 431, FOR 451, FOR 452L, FOR 470, FOR 480, ERP 401, ERP 471, MATH 282, MGMT 304, MGMT 350, PSYV 307, REC 300, REC 303,</td>
<td>15-16</td>
</tr>
</tbody>
</table>
Bachelor of Science Degree in Forestry, College of Agricultural Sciences

The program in Urban Forest Management provides students with interdisciplinary training in the management of forest resources in urban areas and other settings where aesthetics and enhancing environmental values of communities are of primary concern. The specialization includes areas of study recommended and accredited by the Society of American Foresters with additional course work providing a background in arboriculture, landscape management and design, small business management, and municipal government. Students are especially prepared for entry into careers in the green industry and municipal forest management and administration. Students in the specialization are required to participate in either the four week forest resource management (FOR 310C, FOR 314C, FOR 351C, FOR 360C) or forest recreation and park management (FOR 422C) summer field camp to gain practical field experience. Field study costs per student for off-campus living expenses and transportation are not to exceed $750 per student and must be borne by the student. Other costs for equipment and supplies, which are required for field study and certain other courses, are specified in course descriptions.

Forestry Major - Urban Forest Management Specialization

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum Requirements</td>
<td>39</td>
</tr>
<tr>
<td>Requirements for Major in Forestry with Urban Forest Management Specialization</td>
<td>79-81</td>
</tr>
<tr>
<td>Forest Core: FOR 100, FOR 201, FOR 202, FOR 285, FOR 310, FOR 314, FOR 325, FOR 331, FOR 351, FOR 381, FOR 411, FOR 430</td>
<td>34</td>
</tr>
<tr>
<td>CHEM 140A, Science Requirement: (one of the following) ZOOL 118, PLB 200 †</td>
<td>(8)</td>
</tr>
<tr>
<td>ABE 204 or ECON 240</td>
<td>(3)</td>
</tr>
<tr>
<td>ENGL 101, ENGL 102, CMST 101, MATH 106 or MATH 108 or MATH 125</td>
<td>(12)</td>
</tr>
<tr>
<td>ENGL 290 or ENGL 291</td>
<td>3</td>
</tr>
<tr>
<td>G.I.S. Course FOR 308 or GEOG 401</td>
<td>3-4</td>
</tr>
</tbody>
</table>
Bachelor of Science Degree in Forestry, College of Agricultural Sciences

The program in Wildlife Habitat Management and Conservation helps students develop knowledge and skills in integrated natural resource management with an emphasis on habitat management for wildlife. The goal of this specialization is to train individuals for wildlife and forestry-related careers in federal and state governmental agencies, non-governmental conservation organizations, and natural resource consulting firms. Students will also be well-prepared for entry into the profession of conservation police officer. In addition, this specialization readies students for graduate study in forestry and wildlife management. This specialization includes areas of study recommended and accredited by the Society of American Foresters. Students in the specialization are required to participate in either the forest resources management (FOR 310C, FOR 314C, FOR 351C and FOR 360C) or forest recreation and park management (FOR 422C) summer field camp to gain practical field experience. Summer camp fees for off-campus living expenses and transportation are not to exceed $750 per student and must be borne by the student. Other costs for equipment and supplies, which are required for field study and certain other courses, are specified in course descriptions.

Forestry Major - Wildlife Habitat Management and Conservation Specialization

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum Requirements</td>
<td>39</td>
</tr>
<tr>
<td>Requirements for Forestry Major with Wildlife Habitat Management and Conservation Specialization (WHMS)</td>
<td>81</td>
</tr>
<tr>
<td>Forestry Core: FOR 100, FOR 201, FOR 202, FOR 285, FOR 310, FOR 314, FOR 325, FOR 331, FOR 351, FOR 381, FOR 411, FOR 430</td>
<td>34</td>
</tr>
<tr>
<td>CHEM 140A; PLB 200 or ZOOL 118</td>
<td>(8)</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>ABE 204 or ECON 240</td>
<td>(3)</td>
</tr>
<tr>
<td>MATH 108, ENGL 290 or ENGL 291</td>
<td>(3)+3=6</td>
</tr>
<tr>
<td>Summer Field Studies: FOR 310C, FOR 314C, FOR 351C, FOR 360C or FOR 422C</td>
<td>6</td>
</tr>
<tr>
<td>FOR 315, FOR 403 or FOR 431, FOR 405, FOR 416, FOR 451</td>
<td>16</td>
</tr>
</tbody>
</table>
| Forestry Electives: BIOL 307, FOR 210, FOR 220, FOR 230, FOR 308, FOR 315, FOR 352,
  FOR 375, FOR 390, FOR 402, FOR 403, FOR 409, FOR 415, FOR 418, FOR 420, FOR 421,
  FOR 428, FOR 429, FOR 431, FOR 452L, FOR 461, FOR 467, FOR 470, FOR 480, GEOL 471,
  PLB 300, ZOOL 410                                                                | 6-7          |
| G.I.S. Course: FOR 308 or GEOG 401                                                | 3            |
| Soils Course: FOR 352 or CSEM 240                                                | 3-4          |
| AGBE 318 or MATH 282                                                             | 11-12        |
| Total                                                                             | 120-121      |

1 Hours included in total for University Core Curriculum requirements.
2 Minimum hours required to bring total to 120.

**Forestry Courses**

**FOR100 - Introduction to Forestry** 100-1 Introduction to Forestry. Students experience varied subject areas of Forestry including forest recreation, ecology, silviculture, wildlife habitat restoration, hydrology, wildland fire, forest products, natural ecosystems and conservation. Special emphasis is given to the diversity of careers in Forestry. Required field trip transportation fee not to exceed $50 per course registration.

**FOR102 - Tree ID Primer** 102-3 Tree Identification Primer. A one-semester course that teaches fundamental identification techniques of trees, vines, and shrubs using leaves, twigs, bark, and fruit characteristics. Students will learn basic principles in plant taxonomy and botany, and develop problem solving techniques to help in plant identification processes. The course serves as an introductory plant identification course and as a primer for FOR 202-Tree Identification Laboratory.

**FOR125 - Forestry & Nat Res Conservatn** 125-3 Forestry and Natural Resource Conservation. (University Core Curriculum) Introduction to the field of forestry and natural resource conservation. Special emphasis will be placed on the key fields of study including ecosystem science, wildlife habitat relationships, forest recreation, and urban forestry. The following course related performance goals would be expected from you at the conclusion of the course: 1. Describe the forest regions of the world, 2. Describe the key concepts wildlife habitat relationships, 3. Describe the primary types of ecosystem services in natural areas, 4. Describe the factors that affect participation in forest recreation, 5. Understand commonly used natural resource data, 6. Describe commonly used forest practices, 7.
Describe the key concepts urban forests, and describe common careers in the forest management profession.

**FOR201 - Ecology: N American Forests** 201-3 Ecology of North American Forests. This course introduces concepts of biology, physiology, ecology, and silvics important to the growth, development, and sustainability of trees and forest ecosystems. Emphasis includes understanding how trees are influenced by: the physical environment (atmosphere, light, water, topography, fire, soils, etc.); the biological, physiological, and genetic potential of tree species; and interrelationships with other organisms including wildlife, fungi, and humans. Requires field trip transportation fee not to exceed $20 per course registration.

**FOR202 - Tree Identification Lab** 202-3 Tree Identification Laboratory. Field and Laboratory identification of native and exotic trees, shrubs and woody vines using leaf, twig, bark and fruit characteristics. Requires field trip transportation fee not to exceed $50 per course registration.

**FOR210 - Freshwater Angling** 210-3 Freshwater Angling and Aquatic Resource Management. This course will provide an introduction to angling in Illinois ponds, lakes, and streams/rivers. Emphasis will focus on angling techniques, equipment, and habitat requirements necessary for freshwater game species in Illinois' waters. Threats and challenges toward the future of angling will also be discussed highlighting emerging diseases, fishing pressure, resource competition, aquatic weed control, and water quality. The course is offered online only.

**FOR215 - Bass Fishing Techniques** 215-3 Bass Fishing Techniques. This course will provide an introduction to bass fishing in Illinois ponds, lakes, and streams/rivers. Emphasis will focus on angling techniques, equipment, and habitat requirements necessary for recreational angling and tournament fishing across the U.S. Threats and challenges toward the future of Bass Fishing will also be discussed highlighting fishing pressure, resource competition, aquatic weed control, and water quality. This course is online and face-to-face course that will meet 1 day per week.

**FOR220 - Intro to Forest Recreation** 220-2 Introduction to Forest Recreation. Trends in outdoor recreational use of wild lands and natural areas with emphasis on state and federal parks and forests. Introductory concepts in recreation resources management, visitor impact assessment and environmental interpretation.

**FOR230 - Intro to Water Resources** 230-3 Introduction to Water Resources. Introduction to the distribution, management, and quality of water resources. Emphasis on the hydrologic cycle, the watershed as a unit of management, water supply and treatment, and the functions of aquatic ecosystems including rivers, streams, aquifers, lakes, ponds, and wetlands.


**FOR308 - Mapping and GIS** 308-3 Introduction to Mapping and Geographic Information Systems. Integrated use of mapping, aerial photographs, and field information to evaluate resources in the development of land management plans. Topics range from aerial photo interpretations, to GIS database management and vegetation mapping. Course will include classroom presentations, field trips and lab exercises. Requires field trip and supplemental expenditures not to exceed $50 per course registration.

**FOR310 - Practices of Silviculture** 310-4 Practices of Silviculture. Detailed study of classical concepts and recently developed techniques utilized in silviculture treatment of forests. Major emphasis to be placed upon establishment, thinning, timber stand improvement, and regeneration of forests. Prerequisite: FOR 331. Requires field trip and supplemental expenditures not to exceed $40 per course registration.

**FOR310C - Silviculture Field Studies** 310C-1 Silviculture Field Studies. Methods of determining volume and quality of forest products, forest resource inventory procedures, growth, and productivity studies. Co-requisites: FOR 314C, FOR 351C, and FOR 360C. Prerequisite: FOR 310, FOR 331 or consent of instructor. Requires field trip transportation fees and supplemental expenditures not to exceed $125 per
course registration. Summer camp fees and costs are outlined in the Forestry major-Forest Resources Management Specialization.

**FOR311 - Resources Photogrammetry** 311-3 Resources Photogrammetry. The science and art of obtaining reliable measurement by means of photographs, detection of disease, insects, and fire invasion by remote sensors; and delineation of resources boundaries through interpretation.

**FOR313 - Harvesting Forest Crops** 313-3 Harvesting Forest Crops. Emphasis is given to lumber sale layouts, sale contracts, and harvest engineering methods. Consideration is given to the environmental impacts of harvesting. Prerequisite: FOR 310 or consent of instructor. Requires field trip transportation fee not to exceed $25 per course registration.

**FOR314 - Forest Health** 314-3 Forest Health. Detailed study of the factors that influence forest health, including abiotic stress, diseases, insects, and invasive plants. Special emphasis will be placed on the identifications of the signs and symptoms of the factors that affect forest health and the appropriate management techniques to mitigate these factors.

**FOR314C - Forest Protection Fld Studies** 314C-2 Forest Protection Field Studies. The prevention and suppression of forest fires, the recognition and control of insect and disease organisms and other destructive agents in the forest. Co-requisites: FOR 310C, FOR 351C, and FOR 360C. Prerequisites: FOR 314, FOR 315, and FOR 331 or consent of instructor. Requires field trip transportation fees and supplemental expenditures not to exceed $250 per course registration. Summer camp fees and costs are outlined in the Forestry major-Forest Resources Management Specialization.

**FOR315 - Fire in Wildland Mgmt** 315-3 Fire in Wildland Management. Fire as a phenomenon in wildland management. Topics covered are fire prevention, detection, suppression, behavior, effects, use and economics. Major emphasis is on fire control and fire ecology. Requires field trip transportation fees and supplemental expenditures not to exceed $75 per course registration.

**FOR320C - Forest Wildlnd Rec Field Study** 320C-1 Forest and Wildlands Recreation Field Studies. Recreation of forest and adjacent lands with emphasis on parks and national forests. Administration; interpretation; trends in use and development. Offered at summer camp only. Prerequisite: FOR 220. May require supplemental expenditures not to exceed $35 per course registration. Summer camp transportation fees and cost are outlined in the Forestry Major description - Forest Resources Management Specialization.

**FOR325 - Forest Policy** 325-3 Forest Resource Policy and Administration. Policy formation and implementation, including the roles of special interest groups and public values. Examination of federal natural resource policies, conservation leaders who influenced policy and current applications of policy in forest management.

**FOR331 - Forest Ecosystems** 331-3 Forest Ecosystems. Forest Ecosystems covers topics including community concepts; competition; tolerance; disturbance; succession; carbon balance; diversity; and the ecological and social aspects of ecosystem management relating to the structure, energy flow, and dynamic interrelationships of the biotic and abiotic forest environment to understand and sustainably manage forest ecosystems and habitat over time. Prerequisite: FOR 201 or consent of instructor.


**FOR350 - Wood as a Raw Material** 350-3 Wood as a Raw Material. Structure, identification, and properties of wood. Important species, significance of properties to end-use and significance of wood to the environment.

**FOR351 - Forest Measurements** 351-4 Forest Measurements. Introductory measurement, statistical and data processing concepts; volume, growth, and yield of forest products; methods of sampling forest resources. Requires field trip transportation fees and supplemental expenditures not to exceed $75 per course registration.
FOR351C - Measurements Field Study 351C-2 Forest Resources Measurements Field Studies. Methods of determining volume and quality of forest products, forest resource inventory procedures, growth, and productivity studies. Co-requisites: FOR 310C, FOR 314C, and FOR 360C. Prerequisite: FOR 351 or consent of instructor. Requires field trip transportation fees and supplemental expenditures not to exceed $250 per course registration. Summer camp fees and costs are outlined in the Forestry major - Forest Resources Management Specialization.

FOR352 - Intro to Forest Soils 352-3 Introduction to Forest Soils. An introduction to the characterization and fundamental concepts of forest soils and their relationships to forest communities and forest management practices. Emphasis is on the essential chemical, biological, and physical properties of forest soils as related to forests and forest management. This course will provide a sound basis for learning basic soils concepts specifically related to forest ecosystems which are beneficial to Forestry majors and those majoring/minoring in Soil Science or related natural science disciplines.

FOR360C - Forest Industries Fld Studies 360C-1 Forest Industries Field Studies. A study of primary and secondary forest product processing in the central hardwood region. Co-requisites: FOR 310C, FOR 314C, and FOR 351C. Requires field trip transportation fees and supplemental expenditures not to exceed $125 per course registration. Summer camp fees and costs are outlined in the Forest major - Forest Resources Management Specialization.

FOR375 - Wildlife/NR Enterprise Mgmt 375-3 Wildlife and Natural Resource Enterprise Management. Introduction to the field of wildlife and natural resource enterprise management in North America. Special emphasis will be placed on hunting as a source of generating revenue through leases, habitat consulting, and outfitting. The course will also offer an opportunity to explore outdoor recreation based tourism and recreational real estate.

FOR381 - Forestry Seminar 381-1 Forestry Seminar. Presentation of topics pertinent to multiple-use management and utilization of forest resources. Restricted to senior standing.

FOR390 - Forestry Internship 390-1 to 3 Forestry Internship-Opportunities for Excellence. Forestry Internships (paid or non-paid) are supervised learning experiences which are integrated into the students' academic program and are conducted in a pre-approved setting with a local, state or federal agency, a non-profit organization, SIU Touch of Nature, or public/private business. Student must secure the internship and submit job site contact info and a list of personal goals and learning objectives for approval by a member of the forestry faculty who will serve as their internship advisor. A reflective paper on the internship experience and a written evaluation submitted by intern's on-site supervisor are required at the end of the semester. Repeatable; maximum of 3 hours toward degree (Forestry Elective credit). Prerequisite: minimum GPA of 2.50 and special approval needed.

FOR391 - Special Problems:For Resources 391-1 to 4 Special Problems in Forest Resources. Independent research sufficiently important to require three hours per week of productive work for each hour of credit. Restricted to junior standing. Special approval needed from the chairperson.

FOR401 - Fundmntls Environmental Educ 401-3 Fundamentals of Environmental Education. (Same as AGRI 401 and REC 401) A survey course designed to help education majors develop an understanding of environmental education principles and teaching both inside and outside the classroom. Prerequisite: ten hours of biological science or ten hours of recreation and/or education, or consent of instructor. Requires field trip transportation fee not to exceed $25 per course registration.

FOR402 - Wildland Hydrology 402-3 Wildland Hydrology. Fundamentals of hydrology as related to forest and wildland water resources will be emphasized. Considerations will include the hydrologic cycle with emphasis on soil and groundwater regimes, evapotranspiration, surface and subsurface runoff, and the quantity and timing of water yield. Offered spring semester even years.

FOR403 - Agroforestry 403-3 Agroforestry. This course examines the deliberate integration of forestry and related land management practices within agricultural landscapes, primarily addressing wildlife habitat, water quality, crop yield, and animal production enhancement and sustainability. Emphasis is placed on systems successfully implemented in North America, particularly the Midwest, but international examples will also be discussed. Prerequisite: FOR 201 or coursework in forest ecology or consent of instructor.
FOR405 - Forest Wildlife 405-3 Forest Management for Wildlife. This course is designed to familiarize students with a scientific understanding of the theory and practice of forest management for wildlife. Students will gain knowledge of basic forestry management principles as they apply to wildlife; ecology and management of different types of forests for wildlife; and habitat requirements of forest birds, mammals, and herps and applicable forest management techniques. Restricted to Forestry, Zoology, Bio Science, Animal Science, or Environmental Science majors/minors; sophomore or higher, or with consent of instructor.

FOR406 - Landscape Ecology 406-2 Landscape Ecology. (Same as FOR 506) (FOR 506-3, will have an additional lab requirement) Principles of landscape ecology in the context of forested systems. There is an emphasis on how spatial heterogeneity and human activities influence landscape patterns. Prerequisite: G.I.S. course or consent of instructor.

FOR409 - International Forestry 409-3 International Forest Resources Decision-Making. Examines management planning decision-making for multiple-use forests around the world. Reviews concepts useful for analyzing flow-resource problems, emphasizing systems approaches, introduces use of modern quantitative and qualitative methods to evaluate resource use alternatives. Case studies from around the world. Prerequisite: FOR 411.

FOR411 - Forest Resources Economics 411-3 Forest Resources Economics. Application of micro- and macro-economic principles to forest timber and non-timber production; capital theory, benefit-cost analysis; and economics of conservation. Prerequisite or Co-requisite: ECON 240 or ABE 204.

FOR412 - Tree Improvement 412-2 Tree Improvement. Basic theories and techniques of obtaining genetically superior trees for forest regeneration. Restricted to senior standing.

FOR413 - Summer Forest Wildlife 413-2 Summer Ecology of Forest Wildlife. This course is designed to familiarize students with a scientific understanding of the ecology and management of forest wildlife species during the summer months. In this intensive, one-week summer course, students will engage in laboratory, lecture, and field modules intended to inform students about forest wildlife communities and common research and management methods. Students will gain considerable hands-on experience conducting field- and laboratory-based methods useful for studying and managing forest wildlife and their habitat.

FOR414 - Information Management 414-3 Information Management. The collection of physical, biological, and social variables in the field of forestry through sampling survey. The procedures of data manipulation and calculation and the presentation of graphs and tables.

FOR415 - Prescribed Burn Planning 415-2 Prescribed Burn Planning. FOR 415 provides a practical overview of planning, mapping, and execution of prescribed burns for ecological restoration efforts in woodland and prairie habitats or other wildland areas. Emphasis will be placed on writing burn prescriptions, laying out burn units, planning and executing burns, and long term monitoring efforts. This will be accomplished with weekly on-line reading assignments followed by Friday morning field trips to visit burn units, prepare control lines, record weather observations, and conduct fuel model assessments. Requires field trip transportation fees and supplemental course expenditures not to exceed $45 per course registration. Offered during spring semesters. Prerequisite: FOR 315-Fire in Wildland Management. Consent of instructor.

FOR416 - Forest Resource Management 416-4 Forest Resource Management. The application of business procedures and technical forestry principles to manage forest properties. Emphasis on integrated resource management for tangible and intangible benefits. Prerequisite: FOR 351, completion of Forest Resource summer camp series or consent of instructor. Requires field trip transportation fee and supplemental expenditures not to exceed $40 per course registration.

FOR417 - Forest Land-Use Planning 417-2 Forest Land-Use Planning. Principles of location theory as a basis for determining land use; supply of forest land; population pressure and demand; conservation principles; determination of forest land values; institutional factors influencing forest land-use; forest taxation; special taxes, and capital gains. Taught in alternate years. Prerequisite: FOR 411 or consent of instructor.
FOR418 - Marketing of Forest Products 418-2 Marketing of Forest Products. The role of marketing in the forest industries; review of economic principles; product policy, planning the product line, pricing, marketing channels, marketing programs, marketing organization, and marketing research as influences on the marketing of lumber, wood products, pulp, and paper. Taught in alternate years. Prerequisite: FOR 411 or consent of instructor.

FOR420 - Park Management 420-3 Park and Wildlands Management. The management of state and federal parks and recreation areas. A systems approach toward management and decision-making will be emphasized. Requires field trip transportation fees and supplemental expenditures not to exceed $50 per course registration.

FOR421 - Recreation Land-Use Planning 421-3 Recreation Land-Use Planning. Principles and methods for land-use planning of park and recreation environments with emphasis on human dimensions of natural resource research. Focus on planning process and types of information to gather and organize. Application in group field projects. Prerequisite: FOR 220, 420, or consent of instructor. Requires field trip transportation fee not to exceed $25 per course registration.

FOR422C - Forest Recreation Camp 422C-6 Park and Wildlands Management Camp. A study of park conditions, visitors, and management practices at selected county, state, and federal park systems in the U.S., including the federal wilderness preservation system. Prerequisite: FOR 220 or consent of instructor. Requires field trip transportation fees and supplemental expenditures not to exceed $750 per course registration. Summer camp fees and costs are outlined in the Forestry major - Forest Recreation and Park Management Specialization.

FOR423 - Environmental Interpretation 423-3 Environmental Interpretation. (Same as AGRI 423 and REC 423) Principles and techniques of natural and cultural interpretation. Two hours lecture, three hours laboratory. Prerequisite: ten hours biological science or ten hours of recreation. Requires field trip transportation fee not to exceed $40 per course registration.

FOR425 - Habitat Mgmt Wild Game 425-3 Habitat Management for Wild Game. Introduction to the field of habitat management for wild game species in the Central Hardwood Forest Region of North America. Special emphasis will be placed on providing and manipulating the essential habitat requirements for trophy game including deer, turkey, and upland birds. A holistic approach to habitat management will be emphasized to identify how management of wild game habitat can satisfy other landowner goals and objectives. Restricted to junior level standing or above or permission of instructor.

FOR428 - Urban Forestry 428-2 Urban Forestry. An introduction to principles and practices useful in the management of trees and forests in populated settings. Emphasis is placed on the development of comprehensive management strategies consistent with the biological, physical, economic and social constraints of the urban environment. Restricted to junior or senior standing or permission of the instructor.

FOR429 - Watershed Mgmt Field Lab 429-2 Watershed Management Field Laboratory. A field intensive laboratory course focused on hydrological and biological methods used to manage watersheds and assess watershed health. Laboratory topics include stream gauging, soil water and ground water sampling, channel morphology, stream benthos measurements, and water quality analysis of stream and lake ecosystems. Requires field trip transportation fee not to exceed $30 per course registration.

FOR430 - Wildland Watershed Mgmt 430-3 Wildland Watershed Management. Emphasis is placed on the principles, technical problems, procedures, alternatives, and consequences encountered in managing wildland watersheds for the production of quality water in harmony with other uses.

FOR431 - Regional Silviculture 431-3 Regional Silviculture. This course examines prevailing management practices within each of the major forested regions of the United States. The course is primarily intended for students interested in wildlife habitat, wood production, or restoration. Emphasis is placed on understanding how underlying soils, silvics, climate, biotic agents, social forces, and past uses drive forestry differentially across the country. Prerequisite/Co-Requisite: FOR 310, or consent of instructor.

FOR451 - Wildlife Habitat & Populations 451-3 Wildlife Habitat and Populations. This course is designed to familiarize students with a scientific understanding of major topics in wildlife ecology and
management, with a special focus on Forestry majors and natural resource inventory techniques. Students will gain knowledge of the history of the field of wildlife management, primary wildlife management principles and practices, ecological theory pertinent to wildlife populations and habitats, and current important issues/problems regarding wildlife management and natural resource inventory. Restricted to Forestry, Zoology, Biological Science, Animal Science majors/minors or Environmental Science minors; or by consent of instructor.

FOR452 - Forest Soils 452-3 Forest Soils. Forest Soils is designed to give the student a more comprehensive in-depth study of the patterns and processes of soil formation and their relation to forest productivity. Upon completion of the course, student will be familiar with soil/plant interactions, water relationships, and forest soil management for sustainable productivity and environmental quality. This course provides a sound basis for learning basic soils concepts specifically related to forest ecosystems which are beneficial to Forestry majors and those majoring/minoring in Soil Science or related natural science disciplines. Prerequisite: FOR 352 or consent of instructor. Requires field trip transportation fee not to exceed $25 per course registration.

FOR452L - Forest Soils Laboratory 452L-2 Forest Soils Laboratory. Companion laboratory for FOR 452. Emphasis is on methods to characterize and evaluate the chemical, physical, and biological properties of forest soils. Requires field trip transportation fee not to exceed $25 per course registration. Offered spring semester, even years.

FOR453 - Environment Impact Assessment 453-2 Environmental Impact Assessment in Forestry. Methods of assessing the environmental impact of land-use systems on forest resources and assessing the impact of forest management systems on environmental quality are presented. Case studies culminating in the preparation of environmental impact statements are emphasized. Restricted to senior standing in a natural resource major. Requires field trip transportation fee not to exceed $25 per course registration.

FOR454A - Forest Ecology: Boreal 454A-2 Forest Ecology Field Studies-Boreal. A study of forest communities, soils, and site conditions. Course requires a field trip of about 10 days. Each trip is worth two semester credits; a maximum of 6 credits may be applied toward graduate credit. Restricted to senior standing in natural resources or biological sciences, courses in tree identification, forest ecology, and soils. Special approval needed from the instructor. Requires field trip transportation fee not to exceed $300 per course registration.

FOR454B - For Ecology: Lake States 454B-2 Forest Ecology Field Studies-Lake States. A study of forest communities, soils, and site conditions. Course requires a field trip of about 10 days. Each trip is worth two semester credits; a maximum of 6 credits may be applied toward graduate credit. Restricted to senior standing in natural resources or biological sciences, courses in tree identification, forest ecology, and soils. Special approval needed from the instructor. Requires field trip transportation fee not to exceed $300 per course registration.

FOR454C - For Ecology: S Appalachians 454C-2 to 8 Forest Ecology Field Studies-Southern Appalachians. A study of forest communities, soils, and site conditions. Course requires a field trip of about 10 days. Each trip is worth two semester credits; a maximum of 6 credits may be applied toward graduate credit. Restricted to senior standing in natural resources or biological sciences, courses in tree identification, forest ecology, and soils. Special approval needed from the instructor. Requires field trip transportation fee not to exceed $300 per course registration.

FOR454D - For Ecology: Southern Pine 454D-2 to 8 Forest Ecology Field Studies-Southern Pine. A study of forest communities, soils, and site conditions. Course requires a field trip of about 10 days. Each trip is worth two semester credits; a maximum of 6 credits may be applied toward graduate credit. Restricted to senior standing in natural resources or biological sciences, courses in tree identification, forest ecology, and soils. Special approval needed from the instructor. Requires field trip transportation fee not to exceed $300 per course registration.

FOR460 - Forest Industries 460-2 Forest Industries. Analysis of raw material requirements, the processes and the products of forest industries. The environmental impact of each forest industry will also be discussed.
FOR470 - Wilderness Management 470-2 Wilderness Management, Policy, and Ethics. Study of current management philosophy and practice in America's wilderness. Analysis of current wilderness policy and its historical evolution. Discussion of the evolution of the wilderness idea and the individuals that have influenced it. Weekend field trip required. Offered alternate (even) years. Restricted to senior standing. Required field trip transportation and materials fee not to exceed $80 per course registration.

FOR471 - Interdsp Apprs to Env Issues 471-3 Interdisciplinary Approaches to Environmental Issues. Application of concepts for the biological, physical and social sciences, economics, humanities and law, are used to understand the interdisciplinary complexities of environmental issues. Students will develop and demonstrate problem-solving skills as part of a team analyzing a regional environmental issue. Team-taught seminar style discussions. Prerequisite: PLB 301I and admission to Environmental Studies minor program.

FOR480 - Natural Resource Conflict Mgt 480-3 Natural Resource Conflict Management. Examines the role and methods of stakeholders in influencing natural resource policies. Emphasis on applied methods, techniques and strategies for conflict resolution, especially collaborative decision making and persuasion theory. Restricted to junior standing or consent of instructor.

FOR490A - Resource Mgmt Consortium 490A-2 Resources Management Consortium. Intensive field course in resources management decision making. Student serves as team member in solving resource problems in forestry, wildlife management, recreation, and interpretation at Land Between the Lakes. Enrollment is limited to six. Course taught at Land Between the Lakes. Not for graduate credit. Special approval needed from the instructor. Requires transportation, room and board fee not to exceed $150 per course registration.

FOR492 - Special Studies Honor Students 492-1 to 4 Special Studies for Honor Students. Research and individual problems in forestry. Not for graduate credit. Prerequisite: a 3.0 minimum grade point average. Special approval needed from the department chair.

FOR494A - Practicum: For Env Assessment 494A-1 to 6 Practicum-Forest Environmental Assessment. Supervised practicum in a professional setting. Emphasis on administration, supervision, teaching and program leadership in community, school, park, forest, institution, and public or private agencies. Students should enroll according to their curriculum specialization. Special approval needed from the instructor.

FOR494B - Practicum: Outdoor Rec Res Mgt 494B-1 to 6 Practicum-Outdoor Recreation Resource Management. Supervised practicum in a professional setting. Emphasis on administration, supervision, teaching and program leadership in community, school, park, forest, institution, and public or private agencies. Students should enroll according to their curriculum specialization. Special approval needed from the instructor.

FOR494C - Practicum:For Resources Mgmt 494C-1 to 6 Practicum-Forest Resources Management. Supervised practicum in a professional setting. Emphasis on administration, supervision, teaching and program leadership in community, school, park, forest, institution, and public or private agencies. Students should enroll according to their curriculum specialization. Special approval needed from the instructor.

FOR500 - Principles of Research 500-2 Principles of Research. Research philosophy, approaches to research; theory, hypotheses inference, and predicting; problem identification, project development and organization; methods of data collection, analysis and presentation; drawing conclusions and organizing results.

FOR501 - Graduate Seminar 501-1 Graduate Seminar. Presentation and critiques of current research project of faculty, graduate student and selected resource persons.

FOR502 - Adv Watershed Hydro Mgmt 502-3 Advanced Watershed Hydrology and Management. A study of current issues relating to hydrology and the management of water resources in forested and mixed land-use watersheds. Readings, discussions and projects will focus on research and management topics in water quality and quantity at regional, national and international levels. Prerequisite: FOR 402 or FOR 430 or equivalent or consent of instructor.
FOR504 - Tree Physiology 504-2 Tree Physiology Concepts and Applications. A study of physiological concepts and attributes of trees that underlies growth, ontogeny, and reproduction in the context of genotype, environment, and their interaction. Physiological concepts will be presented and discussed in a framework that relates their influence on forest stand management applications and activities such as regeneration, tree planting, silvicultural activities in native forests and plantations, and stand response to disturbance, and the development and maintenance of old growth. Prerequisite: PLB 200 or FOR 331 or a plant physiology course.

FOR506 - Advanced Landscape Ecology 506-3 Advanced Landscape Ecology. (Same as FOR 406) (FOR 506-3 will have an additional lab requirement) Review and evaluation of current research and concepts in landscape ecology management. Principles of landscape ecology in the context of forested systems will be presented and discussed. Emphasis on how spatial heterogeneity and human activities influence landscape patterns. Prerequisite: G.I.S. course or consent of instructor.

FOR508 - Historical Ecology 508-2 Historical Ecology. Introduction to the basic concepts and foundations of historical ecology, a discipline which joins traditional ecology with an investigation of human landscape transformation. Emphasis is placed on the interdisciplinary approach to historical ecology with readings in pollen analysis, dendrochronology, land-use history, archival and historical sources, and traditional vegetation surveys and reconstructions. Offered alternate years. Prerequisite: 300 level plant ecology course or equivalent or consent of instructor. Field trip cost approximately $35.

FOR510 - Adv Silviculture: Land Rehab 510-2 Advanced Silviculture: Landscape Rehabilitation. Current and emerging issues in silviculture and landscape-scale natural resource and agricultural sustainability are addressed at the individual manager/farmer or small community level. Case studies consider underlying physical and biological principles underlying successful rehabilitation practices across a wide range of social contexts and physical landscapes. Experimental methodologies and their application to management problems are critiqued. Water, grazing, food crop, wildlife/biodiversity conservation, and biofuels are emphasized with accommodations for students with related interests. This course is intended for students with undergraduate training or practical backgrounds in natural resource management or agriculture and who are seeking to integrate these disciplines toward developing actionable solutions. Special approved needed from the instructor.

FOR511 - Adv Forest Resource Econ 511-2 Advanced Forest Resources Economics. Application of microeconomic, macroeconomic and capital theory to forest resource problems; introductory econometric methods; long range supply and demand projections; international forest economics and policy problems decision theory in forest resource management. Offered alternate years. Prerequisite: FOR 411 or equivalent or consent of instructor.

FOR512 - Tree Selection & Breeding 512-2 Tree Selection and Breeding. Quantitative methods of describing variation patterns of trees, testing genetic and environmental effects and interactions and evaluations of tree improvement program. Prerequisite: FOR 412 or consent of instructor.

FOR515 - Adv Urban Ecosystem Mgmt 515-3 Advanced Urban Ecosystem Management. An examination of concepts and processes associated with urban environments. Physical, chemical, and biological stresses associated with land use change and urban sprawl will be discussed and presented with a focus on water resources. Class discussion, readings, and projects will concentrate on current research in the urban environment. Restricted to graduate standing or consent of instructor.

FOR516 - Adv Forest Management 516-2 Advanced Forest Management. Case studies in forest land management, management planning, utilizing computer programming, CFI and TSI role in long range management planning. Offered alternate years-odd. Prerequisite: FOR 416, FOR 331 and summer camp or consent of instructor.

FOR520 - Adv Park Planning 520-2 Advanced Park Planning. Study of nature and functions of the recreation environmental planning process in theoretical and policy terms. Types of plans at local, regional and state levels. Evaluation of different types of planning approaches and their utility in particular situations. Offered alternate years. Prerequisite: FOR 421 or consent of instructor.

FOR521 - Recreation Behavior-Wildlands 521-2 Recreation Behavior in Wildlands Environments. Review of sociological and psychological theories relevant to outdoor recreation planning; management
alternatives. Review of current behavior research in outdoor recreation. Application of behavioral concepts to recreation planning and administration. Offered alternate years.

FOR523 - Advanced Resource Interpretation 523-2 Advanced Resource Interpretation. Survey of theories and methods relating to resource interpretation planning and practice resulting from research in communication, education and marketing. Examines case studies and existing issues current to the profession of interpretation. Stresses relationship between theory and application. Prerequisite: FOR 423 or consent of instructor. Offered alternate years.

FOR528 - Urban Tree Management 528-3 Urban Tree Management. Establishment and maintenance of trees as beneficial components of urban environments. Tree functionality is addressed from biological, social, and economic opportunities and constraints commonly associated with cities and towns. Management of trees and wooded areas within ecological urban landscapes is addressed from the perspective of multiple constituencies. This course is primarily intended to be taken as part of the ecological urban landscapes graduate program and is offered Online Only. May be taken as a substitute for FOR 428. Students who have achieved a passing grade in FOR 428 are not eligible to take this course.

FOR530 - Forest Site Evaluation 530-2 Forest Site Evaluation. A discussion of the factors affecting site quality and their use in present site evaluation methods. Lectures will draw upon recently published scientific literature as well as forest research data collected and analyzed for southern Illinois forests. Laboratories will include sampling of forest sites and stands with subsequent analysis of data using graphic and statistical techniques and a computer to develop site evaluation models. Prerequisite: BIOL 307 or consent of instructor. Cost: $20.

FOR531 - Disturbance Ecology 531-2 Disturbance Ecology. Provide a historical overview and current perspective on major topics in forest ecology including natural disturbance, gap and patch dynamics, and relevant restoration ecology techniques. This is accomplished through a critical examination of the literature through reading, group discussions, and field trips. Two to three field trips will be organized during the semester to observe the effects of natural disturbance with an approximate total cost of $25 per student. Offered alternate years. Prerequisite: 300 level plant ecology course (or equivalent) or consent of instructor.

FOR551 - Wildlife Habitat 551-3 Wildlife-Habitat Relationships. Theory and practice of analyses pertaining to the study of wildlife-habitat relationships. Understanding of common data collection techniques in wildlife and forestry science. Use of computers, statistical programs, and other forms of data analysis. Ability to work on practical and applied problems in wildlife conservation. Special approval needed from the instructor.


FOR588 - International Grad Studies 588-1 to 6 International Graduate Studies. University residential graduate program abroad. Prior approval by the department is required both for the nature of program and the number of hours of credit.

FOR590 - Readings: Forest Resources 590-1 to 4 Readings in Forest Resources. Intensive consideration is given to current practices and problems in forestry. Special approval needed from the instructor.

FOR591A - Dir Stdy Forest Res-Dendrology 591A 1 to 4 Directed Studies in Forest Resources-Dendrology. Intensive study of disciplines fundamental to forestry. Study of the identification of native and exotic trees. Special approval needed from the instructor.

FOR591B - Dir Stdy For Res-Autecology 591B 1 to 4 Directed Studies in Forest Resources-Forest Autecology. Intensive study of disciplines fundamental to forestry. Study of the physiology of individual tree species in relation to their environment. Special approval needed from the instructor.
FOR591C - Dir Stdy For Res-Comm Ecology 591C 1 to 4 Directed Studies in Forest Resources-Forest Community Ecology. Intensive study of disciplines fundamental to forestry. Study analysis and integration of tree growth, forest structure and classification in relation to climate/edaphic factors as an ecological basis for forest management. Special approval needed from the instructor.

FOR591D - Dir Stdy Forest Measurements 591D 1 to 4 Directed Studies in Forest Resources-Forest Measurements. Intensive study of disciplines fundamental to forestry. Study of measurement, statistical and data processing concepts; volume, growth, yield of forest products and methods of sampling forest resources. Special approval needed from the instructor.

FOR591E - Dir Stdy Forest Recreation 591E 1 to 4 Directed Studies in Forest Resources-Forest Recreation. Intensive study of disciplines fundamental to forestry. Study of principles and methods for land-use planning of park and recreation environments. Special approval needed from the instructor.

FOR591F - Dir Stdy For Res-Silviculture 591F 1 to 4 Directed Studies in Forest Resources-Silviculture. Intensive study of disciplines fundamental to forestry. Study of concepts and techniques utilized in the silvicultural treatment of forests. Special approval needed from the instructor.

FOR591G - Dir Stdy For Res-Wild Fire Mgt 591G 1 to 4 Directed Studies in Forest Resources-Wildland Fire Management. Intensive study of disciplines fundamental to forestry. Study of all aspects of fire as a phenomenon in wildland management. Special approval needed from the instructor.

FOR591H - Dir Stdy Forest Soils 591H-1 to 4 Directed Studies in Forest Resources-Forest Soils. Intensive study of disciplines fundamental to forestry. An introduction to the characterization and fundamental concepts of forest soils and their relationships to forest communities and forest management practices. Emphasis is on the chemical, biological, and physical properties of forest soils as related to forests and forest management.

FOR593 - Individual Research 593-1 to 4 Individual Research. Directed research in selected fields of forestry.

FOR599 - Thesis 599-1 to 6 Thesis. A Minimum of three and a maximum of six hours to be counted toward a Master's degree.

FOR601 - Continuing Enrollment 601-1 per semester Continuing Enrollment. For those graduate students who have not finished their degree programs and who are in the process of working on their dissertation, thesis, or research paper. The student must have completed a minimum of 24 hours of dissertation research, or the minimum thesis, or research hours before being eligible to register for this course. Concurrent enrollment in any other course is not permitted. Graded S/U or DEF only.

Forestry Faculty

Akamani, Kofi, Assistant Professor, Ph.D., University of Idaho, 2011.
Burge, John H., III, Professor, Emeritus, Ph.D., University of Arizona, 1975.
Carver, Andrew D., Professor, Ph.D., Purdue University, 1998.
Chilman, Kenneth C., Associate Professor, Emeritus, Ph.D., University of Michigan, 1972.
Groninger, John W., Professor, Ph.D., Virginia Polytechnic Institute and State University, 1995.
Holzmuller, Eric J., Professor, Ph.D., University of Florida, 2006.
Mangun, Jean C., Associate Professor, Emeritus, Ph.D., Purdue University, 1991.
Nielsen, Clayton K., Professor, Ph.D., Southern Illinois University, 2001.
Park, Logan O., Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2009.
Phelps, John E., Professor, Emeritus, Ph.D., University of Missouri, 1980.
Roth, Paul L., Professor, Emeritus, Ph.D., Kansas State University, 1968.
Ruffner, Charles M., Professor, Ph.D., Pennsylvania State University, 1999.
Schoonover, Jon E., Professor, Ph.D., Auburn University, 2005.
Willard, Karl W. J., Professor, Ph.D., Pennsylvania State University, 1999.
Zaczek, James J., Professor and Chair, Ph.D., Pennsylvania State University, 1994.

Last updated: 02/06/2017
Catalog Year Statement:
Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.