

## 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.

## Forest Hydrology Specialization

The specialization 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.

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Requirements for Major in Forestry with Forest Hydrology Specialization	79-82

Degree Requirements	Credit Hours
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	34
CHEM 140A, Science Requirement: (one of the following) ZOO 115, ZOO 118, PLB 115, PLB 200, or BIOL 213	7-8
ABE 204 or ECON 240 <sup>1</sup>	(3)
ENGL 290 or ENGL 291, MATH 108 or MATH 109 or MATH 140 (12)1+3 or 4 =15 or 16	
Summer Field Studies: FOR 422C or FOR 310C, FOR 314C, FOR 351C, FOR 360C (summer camp)	6
FOR 402, FOR 421 FOR 429, FOR 452L, (FOR 416 or FOR 420)	13-14
G.I.S. Course: FOR 308 or GEOG 401	3
Soils Course: CSEM 240 or FOR 352	3-4
Forestry Electives (FE): ABE 318, FOR 210, FOR 220, FOR 230, FOR 308, 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 460, FOR 470, FOR 480, GEOG 330, GEOG 401, GEOG 431, GEOG 433, GEOG 434, GEOG 471, GEOL 327I, GEOL 470, GEOL 471, GEOL 474, MATH 150, MATH 282, PHYS 203A, PHYS 203B, PLB 445, ZOO 410, ZOO 411, ZOO 414, ZOO 415, ZOO 458, ZOO 466, ZOO 468 <sup>2</sup>	18-19
Total	120-123

<sup>1</sup> Hours included in total for University Core Curriculum requirements.

<sup>2</sup> \*\*In order to qualify for employment as a federal hydrologist students must complete 6 credit hours of calculus and physics. 3 Forestry Electives (FE): Students must take the number of FE hours required to bring their program total to 120. FOR 308, FOR 352, FOR 416, FOR 420, GEOG 401, and MATH 150 courses may not be used to satisfy more than one requirement.

## Forest Resources Management Specialization

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.

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Management Specialization	79-80
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	34
CHEM 140A, Science Requirement: (one of the following) ZOOLOGY 115, ZOOLOGY 118, PLB 115, or PLB 200 <sup>1</sup>	(7-8)
ABE 204 or ECON 240 <sup>2</sup>	(3)
ENGL 101, ENGL 102, (ENGL 290 or ENGL 291), CMST 101, MATH 106 or MATH 108 or MATH 125 <sup>3</sup>	(12) +3 = 15
Summer Field Studies: FOR 310C, FOR 314C, FOR 351C, FOR 360C	6
FOR 315, FOR 416	7
GIS Course: FOR 308 or GEOG 401	3
Soils Course: FOR 352 or CSEM 240	3-4
Forestry Electives (FE - Course Selection): ABE 318, FOR 210, FOR 220, FOR 230, FOR 308, FOR 350, 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, GEOG 401, GEOG 471, HORT 420, MATH 282, ZOOLOGY 118, ZOOLOGY 410, ZOOLOGY 468, ZOOLOGY 469 <sup>4</sup>	24-25
<b>Total</b>	<b>121</b>

<sup>1</sup> Hours included in total for University Core Curriculum requirements.

<sup>2</sup> Hours included in total for University Core Curriculum requirements.

<sup>3</sup> Hours included in total for University Core Curriculum requirements

<sup>4</sup> Minimum hours required to bring total hours to 120. FOR 308, FOR 352, and GEOG 401 courses may not be used for more than one requirement.

## Forest Recreation and Park Management Specialization

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.

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Requirements for Major in Forestry with Forest Recreation and Park Management Specialization	81
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	34
CHEM 140A, Science Requirement: (one of the following) ZOOLOGY 115 or ZOOLOGY 118, PLB 115 or PLB 200 <sup>1</sup>	7-8
ABE 204 or ECON 240	(3)
ENGL 101, ENGL 102, (ENGL 290 or ENGL 291), CMST 101, MATH 106 or MATH 108 or MATH 125	(12)+3
Soils Course: FOR 352 or CSEM 240	7-8
Summer Field Studies: FOR 422C (summer camp)	6
FOR 220, FOR 420, FOR 421, FOR 423	11
G.I.S. Course: FOR 308 or GEOG 401	3
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, GEOG 401, GEOG 471, MATH 282, MGMT 304, MGMT 350, PSYC 307, REC 300, REC 303, REC 375, REC 430, SOC 386, CMST 412, ZOOLOGY 410, ZOOLOGY 411, ZOOLOGY 468, ZOOLOGY 469 <sup>2</sup>	16-17
Total	120-121

<sup>1</sup> Hours included in total for University Core Curriculum requirements.

<sup>2</sup> Minimum hours required to bring total to 120. FOR 308, FOR 352, and GEOG 401 courses may not be used to satisfy more than one requirement.

## Urban Forest Management Specialization

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.

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Requirements for Major in Forestry with Urban Forest Management Specialization	79-81
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	34
CHEM 140A, Science Requirement: (one of the following) ZOOL 115, ZOOL 118, PLB 115, or PLB 200 <sup>1</sup>	7-8
ABE 204 or ECON 240	(3)
ENGL 101, ENGL 102, CMST 101, MATH 106 or MATH 108 or MATH 125	(12)
ENGL 290 or ENGL 291	3
G.I.S. Course FOR 308 or GEOG 401	3-4
Summer Field Studies: FOR 310C, FOR 314C, FOR 351C, FOR 360C or (resource camp) or FOR 422C (summer camp)	6
FOR 416 or FOR 421, FOR 428	6-7
Soils Course: FOR 352 or CSEM 240	10
Forestry Electives (FE): ABE 318, CSEM 420, CSEM 442, CSEM 443, CSEM 447, CSEM 468, FOR 210, FOR 220, FOR 230, FOR 308, FOR 315, FOR 352, FOR 375, FOR 390, FOR 403, FOR 414, FOR 415, FOR 416, FOR 420, FOR 421, FOR 423, FOR 451, FOR 452L, FOR 480,	18-19

Degree Requirements	Credit Hours
GEOG 401, GEOG 471, HORT 322, HORT 327, HORT 422, HORT 428, HORT 429, HORT 475, MGMT 350, MATH 282, POLS 213 <sup>2</sup>	
Total	120

<sup>1</sup> Hours included in total for University Core Curriculum requirements.

<sup>2</sup> Minimum hours required to bring total to 120. FOR 308, FOR 352, FOR 416, FOR 421, GEOG 401, and POLS 213 courses may not be used to satisfy more than one requirement.

## Wildlife Habitat Management and Conservation Specialization

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.

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Requirements for Forestry Major with Wildlife Habitat Management and Conservation Specialization (WHMS)	81
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	34
CHEM 140A; PLB 115, PLB 200, ZOOL 115, or ZOOL 118	7-8
ABE 204 or ECON 240 <sup>1</sup>	(3)
MATH 108, ENGL 290 or ENGL 291	(3)+3=6
Summer Field Studies: FOR 310C, FOR 314C, FOR 351C, FOR 360C or FOR 422C	6
FOR 315, FOR 403 or FOR 431, FOR 405, FOR 416, FOR 451	16
Forestry Electives: ABE 318, BIOL 211, BIOL 212, BIOL 307, FOR 210, FOR 220, FOR 230, FOR 308, FOR 315,	7-8

Degree Requirements	Credit Hours
FOR 352, FOR 375, FOR 390, FOR 402, FOR 403, FOR 409, FOR 415, FOR 418, FOR 420, FOR 421, FOR 422C, FOR 428, FOR 429, FOR 431, FOR 452L, FOR 470, FOR 480, GEOG 471, MATH 109, MATH 111, PLB 300, ZOO 312i, ZOO 410, ZOO 461, ZOO 467 <sup>2</sup>	
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
<b>Total</b>	<b>120-121</b>

<sup>1</sup> Hours included in total for University Core Curriculum requirements.

<sup>2</sup> Minimum hours required to bring total to 120. ABE 318, FOR 308, FOR 352, FOR 403, FOR 431, GEOG 401, MATH 282, and ZOO 312i courses may not be used to satisfy more than one requirement.

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Last updated: 03/28/2020

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**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.