

FOREST SCIENCE, B.S.

Forest ecosystems cover one third of the world's land area and nearly half of Wisconsin. They provide a range of benefits to society including wood and fiber, wildlife habitat, biological diversity, clean water, carbon storage, recreation, beauty, and cultural values. The Department of Forest and Wildlife Ecology trains foresters to sustainably manage forests toward sustainable ecological, social, and economic outcomes. Forest science students also learn how to respond to forest disturbances from insects, diseases, fire, and other changes. Beyond a core of basic science and forestry coursework, students have flexibility to customize their learning experience within one of three tracks: forest conservation, forests and the environment, and forest management. All three tracks meet accreditation standards of the Society of American Foresters, a key credential that employers seek. Students are also well positioned to pursue graduate training in forestry, ecology, remote-sensing, natural resource policy, and related fields.

Students learn through a mix of classroom, laboratory, and field instruction that emphasizes independent thinking and problem-solving. Students make frequent visits to forests to develop and hone their skills, essential for future job opportunities. Students also engage professional and student-led trainings and networking that further build skills. Graduates go on to jobs in private, public, and non-governmental sectors or pursue graduate degrees.

HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see Entering the College (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#enteringthecollegertext>).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed under the Advising and Careers tab.

REQUIREMENTS

UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (<http://guide.wisc.edu/undergraduate/#requirementsforundergraduatetext>) section of the *Guide*.

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|-------------------|--|
| General Education | <ul style="list-style-type: none"> • Breadth—Humanities/Literature/Arts: 6 credits • Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits • Breadth—Social Studies: 3 credits • Communication Part A & Part B * • Ethnic Studies * • Quantitative Reasoning Part A & Part B * |
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* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext)	1
	International Studies (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I	
	or CHEM 108 Chemistry in Our World	
	or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext)		

MAJOR REQUIREMENTS

Code	Title	Credits
	Select one of the following (or may be satisfied by placement exam):	5-6

MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
Select one of the following:		3
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences (recommended)	
Chemistry		
Select one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World	
CHEM 109	Advanced General Chemistry	
Biology		
Select one of the following options:		10
Option 1 (recommended introduction to biology sequence):		
BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory	
Option 2:		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
Option 3:		
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
Economics		
A A E 215	Introduction to Agricultural and Applied Economics ¹	4
or ECON 101	Principles of Microeconomics	
Conservation		
Select one of the following: ²		2-4
ENVIR ST/ LAND ARC 361	Wetlands Ecology	
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species (recommended) ³	
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 651	Conservation Biology (recommended)	
GEOG/ ENVIR ST 339	Environmental Conservation	

Core

Grade of C or better required in each core course		
SOIL SCI 301	General Soil Science	4
F&W ECOL 300	Forest Biometry	4
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	3-4
or F&W ECOL/ ENVIR ST/G L E/ GEOG/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 399	Coordinative Internship/Cooperative Education	1-8
BOTANY/F&W ECOL 402	Dendrology	2
F&W ECOL 410 & F&W ECOL 411	Principles of Silviculture and Practices of Silviculture	4
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ ENTOM 500	Insects in Forest Ecosystem Function and Management	2
F&W ECOL 501	Forest Fire Behavior and Management	1
ENVIR ST/F&W ECOL 515	Natural Resources Policy	3
F&W ECOL 550 & F&W ECOL 551	Forest Ecology and Forest Ecology Lab	4
A A E/ENVIR ST/F&W ECOL 652	Decision Methods for Natural Resource Managers	4
F&W ECOL 658	Forest Resources Practicum	3
Electives		
Select one of the following tracks:		12
Forest Management Track		
Forest Conservation Track		
Forests & Environment Track		
Capstone		
Grade of C or better required in Capstone		
F&W ECOL 590	Integrated Resource Management	3
Total Credits		84-96

¹ A A E 215 only carries QR-B credit if taken fall 2011 or later.

² These courses may double count as track electives.

³ F&W ECOL/ENVIR ST/ZOOLOGY 360 Extinction of Species may also fulfill CALS International Studies requirement.

MINIMUM GRADE REQUIREMENT

Students who declare the major in fall 2012 or later will be required to receive a grade of C or higher on all of the Forest Science Core courses and the Capstone. Students who receive a grade of D or below will be required to retake the course for graduation.

TRACKS

FOREST MANAGEMENT TRACK

Code	Title	Credits
Select 12 credits from any of the following courses:		12
<i>Soils and Landscapes:</i>		
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	
GEOG 329	Landforms and Landscapes of North America	
SOIL SCI 325	Soils and Landscapes	
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	
<i>Economics and Business:</i>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E/ECON/ ENVIR ST 343	Environmental Economics	
A A E 419	Agricultural Finance	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
INTL BUS 200	International Business	
LSC 270	Marketing Communication for the Sciences	
M H R 300	Managing Organizations	
M H R 305	Human Resource Management	
M H R 401	The Management of Teams	
OTM 300	Operations Management	
<i>Urban and Wildland Forest Management:</i>		
ENVIR ST/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	
F&W ECOL 375	Special Topics (Tree Stability Analysis)	
HORT/ LAND ARC 263	Landscape Plants I	
HORT/ AGRONOMY/ SOIL SCI 326	Plant Nutrition Management	
HORT 375	Special Topics (Aboriculture)	
<i>GIS/Remote Sensing:</i>		
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Fieldcraft & Field Methods for Environmental Researchers)	
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	
ENVIR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	

GEOG 370	Introduction to Cartography	
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
GEOG 378	Introduction to Geocomputing	
<i>Wildlife and Fisheries Ecology:</i>		
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	
F&W ECOL 318	Principles of Wildlife Ecology	
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	
F&W ECOL 379	Principles of Wildlife Management	
F&W ECOL 404	Wildlife Damage Management	
F&W ECOL 655	Animal Population Dynamics	
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology	
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin	
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology	

Total Credits 12

FOREST CONSERVATION TRACK

Code	Title	Credits
Select 3 credits from each of the following areas:		
<i>Plant Ecology and Diversity:</i>		3
BOTANY/ PL PATH 332	Fungi	
BOTANY 401	Vascular Flora of Wisconsin	
BOTANY 422	Plant Geography	
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	
GEOG/ BOTANY 338	Environmental Biogeography	
<i>Animal Ecology and Diversity:</i>		3
ENTOM/ ZOOLOGY 302	Introduction to Entomology	
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	
F&W ECOL 375	Special Topics (Wildlife-Habitat Relationships)	
F&W ECOL 655	Animal Population Dynamics	

ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology	
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin	
<i>Conservation Biology:</i>		3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 651	Conservation Biology	
GEOG/ ENVIR ST 339	Environmental Conservation	
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
<i>Natural Resources Management and Policy:</i>		3
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E/ECON/ ENVIR ST 343	Environmental Economics	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	
ENVIR ST/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	
F&W ECOL 379	Principles of Wildlife Management	
F&W ECOL 561	Wildlife Management Techniques	
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
LAND ARC 668	Restoration Ecology	
Total Credits		12

FORESTS & ENVIRONMENT TRACK

Code	Title	Credits
Select 12 credits from any of the following courses: 12		
<i>Earth and Atmospheric Science:</i>		
ATM OCN 100	Weather and Climate	
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	
ATM OCN/ ENVIR ST/ GEOG 332	Global Warming: Science and Impacts	
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	
GEOG 329	Landforms and Landscapes of North America	
GEOG 342	Geography of Wisconsin	
MICROBIO 303	Biology of Microorganisms	
MICROBIO 304	Biology of Microorganisms Laboratory	
SOIL SCI 321	Soils and Environmental Chemistry	
SOIL SCI/ PL PATH 323	Soil Biology	
SOIL SCI 325	Soils and Landscapes	
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	
<i>Plant and Animal Ecology:</i>		
BOTANY/ PL PATH 332	Fungi	
BOTANY 401	Vascular Flora of Wisconsin	
BOTANY 422	Plant Geography	
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	
ENTOM/ ZOOLOGY 302	Introduction to Entomology	
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	
ENVIR ST/ LAND ARC 361	Wetlands Ecology	
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	
F&W ECOL 318	Principles of Wildlife Ecology	
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	
F&W ECOL 375	Special Topics (Wildlife-Habitat Relationships)	
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 651	Conservation Biology	
F&W ECOL 655	Animal Population Dynamics	

ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin
<i>Natural Resources Management:</i>	
ENVIR ST/ BSE 367	Renewable Energy Systems
ENVIR ST/ GEOSCI 411	Energy Resources
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics
F&W ECOL 379	Principles of Wildlife Management
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems
PL PATH 300	Introduction to Plant Pathology
LAND ARC 668	Restoration Ecology
<i>Human Dimensions of Resources:</i>	
A A E/ ENVIR ST 244	The Environment and the Global Economy
A A E/ECON/ ENVIR ST 343	Environmental Economics
A A E/ECON/ F&W ECOL 531	Natural Resource Economics
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society
ENVIR ST 307	Literature of the Environment: Speaking for Nature
ENVIR ST/ HIST SCI 353	History of Ecology
ENVIR ST/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation
ENVIR ST/ PHILOS 441	Environmental Ethics
ENVIR ST/GEOG/ HISTORY 460	American Environmental History
GEOG/ ENVIR ST 339	Environmental Conservation

Total Credits**12**

HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

Admission Criteria for New First-Year Students:

- Complete program application including essay questions

Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate-students/outside-the-classroom/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

REQUIREMENTS

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take F&W ECOL 681 Senior Honors Thesis and F&W ECOL 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major/>) for more information.

UNIVERSITY DEGREE REQUIREMENTS

Total Degree To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

Residency Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

Quality of Work Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

LEARNING OUTCOMES

- (Ecology) Understanding of taxonomy and ability to identify forest and other tree species, their distribution, and associated vegetation and wildlife.
- (Ecology) Understanding of soil properties and processes, hydrology, water quality, and watershed functions.
- (Ecology) Understanding of ecological concepts and principles including the structure and function of ecosystems, plant and animal communities, competition, diversity, population dynamics, succession, disturbance, and nutrient cycling.
- (Ecology) Ability to make ecosystem, forest, and stand assessments.
- (Ecology) Understanding of tree physiology and the effects of climate, fire, pollutants, moisture, nutrients, genetics, insects and diseases on tree and forest health and productivity.
- (Forest Resources Measurement and Management) Ability to identify and measure land areas and conduct spatial analysis.
- (Forest Resources Measurement and Management) Ability to design and implement comprehensive inventories that meet specific objectives using appropriate sampling methods and units of measurement.
- (Forest Resources Measurement and Management) Ability to analyze inventory data and project future forest, stand, and tree conditions.
- (Forest Resources Measurement and Management) Ability to develop and apply silvicultural prescriptions appropriate to management objectives, including methods of establishing and influencing the composition, growth, and quality of forests, and understand the impacts of those prescriptions.
- (Forest Resources Measurement and Management) Ability to analyze the economic, environmental, and social consequences of forest resource management strategies and decisions.
- (Forest Resources Measurement and Management) Ability to develop management plans with specific multiple objectives and constraints.
- (Forest Resources Measurement and Management) Understanding of the valuation procedures, market forces, processing systems, transportation and harvesting activities that translate human demands for timber-based and other consumable forest products into the availability of those products.
- (Forest Resources Measurement and Management) Understanding of the valuation procedures, market, and non-market forces that avail humans the opportunities to enjoy non-consumptive products and services of forests.
- (Forest Resources Measurement and Management) Understanding of the administration, ownership, and organization of forest management enterprises.
- (Forest Resource Policy, Economics, and Administration) Understanding of forest policy and the processes by which it is developed.
- (Forest Resource Policy, Economics, and Administration) Understanding of how federal, state, and local laws and regulations govern the practice of forestry.

- (Forest Resource Policy, Economics, and Administration) Ability to understand the integration of technical, financial, human resources, and legal aspects of public and private enterprises.

FOUR-YEAR PLAN

FOUR-YEAR PLAN

SAMPLE FOREST SCIENCE FOUR-YEAR PLAN

Freshman

Fall	Credits	Spring	Credits
F&W ECOL/ ENVIR ST 100		3 MATH 113 or 114	3
Economics Course		3-4 CHEM 103, 108, or 109	4-5
MATH 112, 113, or 114		3 BOTANY/BIOLOGY 130 ²	5
COMM A Course		3 Electives (to reach ~15 credits)	0-4
INTER-AG 155 (First Year Seminar)	1		
Electives (to reach ~15 credits) ¹	0-3		
		13-17	12-17

Total Credits 25-34

Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102		5 F&W ECOL 300	4
SOIL SCI 301		4 GEOG/CIV ENGR/ ENVIR ST 377	4
F&W ECOL/BOTANY 402		2 Statistics Courses	9
F&W ECOL 415	3		
		14	17

Total Credits 31

Sophomore

Spring	Credits
F&W ECOL 658 (even #d summers)	3
3	

Total Credits 3

Junior

Fall	Credits	Spring	Credits
F&W ECOL 550		3 F&W ECOL 410	3
F&W ECOL/ENTOM 500 (odd falls only)		2 F&W ECOL 501 (odd springs only)	1
Track Course		3 Track Course	3
Elective Courses		4 Elective Courses	6
		12	13

Total Credits 25

Junior			
Summer			Credits
F&W ECOL 399 ⁴			1
			1
Total Credits 1			
Senior			
Fall	Credits	Spring	Credits
F&W ECOL 590 (Capstone)		3 F&W ECOL/A A E/ ENVIR ST 652	4
F&W ECOL/HORT/ LAND ARC/PL PATH 309		3 F&W ECOL/ ENVIR ST 515	3
Conservation Course (or spring)		2-4 Track Course	3
Track Course		3 Electives	6
Electives (to reach ~15 credits)		3	
			16
			14-16
Total Credits 30-32			

- ¹ When choosing electives, students should first consider UW and CALS requirements (ethnic studies, humanities, social science, international studies, etc.)
- ² BOTANY/BIOLOGY 130 + ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102 are strongly recommended to satisfy the introductory biology requirement for forest science, but students may use ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102.
- ³ F&W ECOL/ENVIR ST/G L E/GEOG/GEOSCI/LAND ARC 371 is available in fall semesters only.
- ⁴ Summer (following second or third year): F&W ECOL 658 (3 cr., even-numbered summers) and F&W ECOL 399 (1 cr.)—4 cr. total.
Students may reduce the number of required courses via: testing out of Comm-A; using ZOOLOGY/BIOLOGY/BOTANY 152 to satisfy Comm-B; testing out of Quantitative Reasoning, Part A; earning AP/IB credits; and/or using F&W ECOL/ENVIR ST/ZOOLOGY 360 to satisfy International Studies requirement.

ADVISING AND CAREERS

UNDERGRADUATE ADVISING IN FOREST SCIENCE

All undergraduate students in forest science are assigned to an advisor when they declare the major. Students in the forest science major are required to meet with their advisor before they can enroll for the upcoming term. Undergraduate students are assigned to a faculty advisor and Allee Hochmuth, the Student Services Coordinator. If you have questions about advising or declaring the major, please contact Allee Hochmuth at abhochmuth@wisc.edu.

For more information about the forest science B.S. or the department in general, please contact Dr. Adena Rissman (adena.rissman@wisc.edu).

CAREERS AND PROFESSIONAL DEVELOPMENT

For more information on careers available to forest science and wildlife ecology students, please visit our Internship & Job Resources page

(<https://forestandwildlifeecology.wisc.edu/academics/undergraduate-programs/internship-job-resources/>). For more information on other academic, co-curricular, financial aid, and career opportunities and services available to forest science B.S. students, please visit the CALS Career Services page (<https://cals.wisc.edu/academics/undergraduate-students/career-services/>). Students in the major are welcome to make an individual appointment with their advisor to discuss a number of career-related topics such as career exploration, search strategies, graduate school, and review of application materials (resume, CV, letters, etc.).

The federal Bureau of Labor Statistics updated its Career Outlook: Careers in Forestry (<http://www.bls.gov/careeroutlook/2016/article/forestry-careers.htm>) page in August 2016 and it gives a great overview of the types of jobs related to forestry. This website is an excellent way to learn more about careers in forestry, upcoming trends, and related careers.

PEOPLE

FACULTY

Bowe, Scott
Burivalova, Zuzana
Drake, David
Karasov, William
Kruger, Eric (chair)
Lutz, R. Scott
Ozdogan, Mutlu
Pauli, Jonathan
Peery, M. Zach
Pidgeon, Anna
Radeloff, Volker
Ribic, Christine
Rickenbach, Mark
Rissman, Adena
Stanosz, Glen
Townsend, Philip
Van Deelen, Timothy
Zuckerberg, Benjamin

AFFILIATED FACULTY

Balster, Nick (Soil Science)
Lindroth, Richard (Entomology)
Marin-Spiotta, Erika (Geography)

FACULTY ASSOCIATE

Berkelman, James

WISCONSIN EXPERIENCE

FORESTRY FIELD CAMP AT THE KEMP NATURAL RESOURCES STATION

F&W ECOL 658 Forest Resources Practicum is an intensive, three-week field course conducted in even-numbered years at the Kemp Natural Resources Station (<http://www.kemp.wisc.edu/>) in Woodruff, Wisconsin. Affectionately known as Forestry Camp, F&W ECOL 658 Forest Resources Practicum introduces students to the complexities of forest ecosystems. Through a series of integrated exercises, students learn firsthand about forest ecosystem structure, function, processes, and services. Along the way students develop the knowledge necessary

to conduct a comprehensive forest resource assessment. Subject areas include: basic field skills, plant identification, GPS & GIS, timber cruising, forest soils, wildlife identification and survey methods, forest ecology, and forest habitat classification. Forestry Camp also provides students with opportunities to work closely with faculty and “real world” natural resource professionals in a beautiful north woods setting.

INTERNSHIPS

All forest science students are required to complete either an internship or professional work experience for their degree. Students are encouraged to talk to their advisor about internship possibilities and departmental internship policies. In order to receive credit for an internship for the forest science major, students must find an internship and have it approved by their advisor. Students who have questions about the internship can also talk to Allee Hochmuth, the student services coordinator.

FORESTRY CLUB

Forest science undergraduates have an active student organization called the Forestry Club. For more information on the club and their activities, please see their Facebook Page (<http://go.wisc.edu/pq634x/>).

ACCREDITATION

Accreditation

Society of American Foresters (<https://www.eforester.org/>)

Accreditation status: Accredited. Next accreditation review: 2027.