Forests cover one-third of Earth and nearly half of Wisconsin. They provide diverse habitat, wood and fiber, clean water, carbon storage, recreation, beauty, and connections to many cultures. Forest managers and scientists work largely outdoors to conserve and manage forest resources and respond to disturbances from insects, diseases, wildfire, fragmentation, deforestation, and other changes. They also use technology to map and inventory forests.

Students in forest science learn the skills needed for many career paths through a mix of classroom, laboratory, and field instruction. They make frequent visits to forests and engage in professional and student-led trainings and networking. Students have flexibility to customize their learning experience through a variety of different elective options.

The department offers excellent teaching, research, and computing facilities. Classes are sized to ensure that undergraduates receive individual attention. Each student has a faculty adviser, and many students gain experience assisting faculty with research projects.

Students go on to work as foresters, park rangers, conservation scientists, educators, researchers, environmental planners, arborists, and more. Graduates of the program also pursue graduate training in forestry, ecology, natural resource policy, or environmental law. Forest science has an excellent job placement track record.

**Learn through hands-on, real world experiences**

Forest science students learn in many field and laboratory courses, putting their knowledge to work in outdoor, everyday circumstances. They also participate in a variety of opportunities beyond campus, including a three-week introduction to forest ecosystems in northern Wisconsin and summer research opportunities. All forest science undergraduates are required to complete an internship, often with a federal, state, or local government agency, an environmental nonprofit organization, timber industry firm, or environmental consultant.

**Build community and networks**

Students can join a competitive quiz bowl team and the Forestry Club (https://www.facebook.com/WUMadisonForestryClub/), UW–Madison’s Student Chapter of the Society of American Foresters. The club organizes the annual holiday tree sale, and students can attend a national foresters conference and take part in trainings for prescribed burns, chainsaw use and tree identification. Forest science undergraduates also have opportunities to work with local schools to help kids understand the forests around them.

**Customize a path of study**

Forest science students select from a large variety of classes to fit their career goals. Students can customize their learning experience and choose electives in focus areas such as forest conservation, forests and the environment, and forest management. In consultation with advisors, students will choose electives in alignment with their unique professional interests. The program meets accreditation standards of the Society of American Foresters, a key credential for many jobs.

**Make a strong start**

Students can take introductory courses that focus on forest science and the department’s curriculum. One course explores forests of the world, as well as threats to forests, their roles in climate change, and strategies to conserve and manage them.

**Gain global perspective**

Forest science students are encouraged to complete study abroad experiences. Students can explore studying abroad as a Forest Science major utilizing the Forest Science Major Advising Page (https://studyabroad.wisc.edu/academics/major-advising-pages-maps/forest-science/). Students work with their advisor and the CALS study abroad office (https://cals.wisc.edu/academics/undergraduate-students/studyabroad/) to identify appropriate programs. The department also offers an international course focused on the extinction of species.

**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/enteringthecollegetext). 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 in the Contact Box for the major.

**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/university-general-education-requirements#requirementsforundergraduateguidetext) section of the Guide.

<table>
<thead>
<tr>
<th>General Education</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breadth—Humanities/Literature/Arts</td>
<td>6 credits</td>
</tr>
<tr>
<td>Breadth—Natural Science</td>
<td>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</td>
</tr>
<tr>
<td>Breadth—Social Studies</td>
<td>3 credits</td>
</tr>
<tr>
<td>Communication Part A &amp; Part B</td>
<td>*</td>
</tr>
<tr>
<td>Ethnic Studies</td>
<td>*</td>
</tr>
<tr>
<td>Quantitative Reasoning Part A &amp; Part B</td>
<td>*</td>
</tr>
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</table>

* 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td></td>
<td>Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.</td>
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<tr>
<td></td>
<td>First Year Seminar</td>
<td>1</td>
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<tr>
<td></td>
<td>International Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Science Fundamentals</td>
<td>4-5</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>or CHEM 108</td>
<td>Chemistry in Our World</td>
<td></td>
</tr>
<tr>
<td>or CHEM 109</td>
<td>Advanced General Chemistry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biological Science</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Additional Science (Biological, Physical, or Natural)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science Breadth (Biological, Physical, Natural, or Social)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CALS Capstone Learning Experience: included in the requirements for each CALS major (see “Major Requirements”)</td>
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</tr>
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</table>

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following (or may be satisfied by placement exam):</td>
<td>5-6</td>
</tr>
<tr>
<td>MATH 112</td>
<td>Algebra and Trigonometry</td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>Algebra and Trigonometry</td>
<td></td>
</tr>
<tr>
<td>MATH 114</td>
<td>Algebra and Trigonometry</td>
<td></td>
</tr>
<tr>
<td>STAT 301</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>STAT 371</td>
<td>Introductory Applied Statistics for the Life Sciences (recommended)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
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<tr>
<td>CHEM 103</td>
<td>General Chemistry I</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
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</tr>
<tr>
<td>CHEM 108</td>
<td>Chemistry in Our World</td>
<td></td>
</tr>
<tr>
<td>CHEM 109</td>
<td>Advanced General Chemistry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biology Complete one of the following options:</td>
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<tr>
<td></td>
<td>Option 1 (recommended introduction to biology sequence):</td>
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<tr>
<td></td>
<td>BOTANY/ BIOLOGY 130 &amp; ZOOLOGY/ BIOLOGY 101 &amp; ZOOLOGY/ BIOLOGY 102</td>
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<tr>
<td></td>
<td>Option 2:</td>
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<tr>
<td></td>
<td>BIOLOGY/ BOTANY/ ZOOLOGY 151 &amp; BIOLOGY/ BOTANY/ ZOOLOGY 152</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Option 3:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BIOCORE 381 &amp; BIOCORE 382 &amp; BIOCORE 383 &amp; BIOCORE 384</td>
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<tr>
<td></td>
<td>Economics</td>
<td></td>
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<tr>
<td>A A E 215</td>
<td>Introduction to Agricultural and Applied Economics or ECON 101 Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Wildlife Ecology Complete one of the following:</td>
<td>3</td>
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<tr>
<td></td>
<td>F&amp;W ECOL 110 Living with Wildlife - Animals, Habitats, and Human Interactions</td>
<td></td>
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<tr>
<td></td>
<td>F&amp;W ECOL/ ENVIR ST/ ZOOLOGY 360 Extinction of Species</td>
<td>2</td>
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<tr>
<td></td>
<td>F&amp;W ECOL 379 Principles of Wildlife Management</td>
<td></td>
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<tr>
<td></td>
<td>F&amp;W ECOL/ AN SCI/ ZOOLOGY 520 Ornithology</td>
<td></td>
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<tr>
<td></td>
<td>Core Grade of C or better required in each core course</td>
<td></td>
</tr>
<tr>
<td>SOIL SCI 301</td>
<td>General Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>or SOIL SCI/ ENVIR ST/ GEOG 230</td>
<td>Soil: Ecosystem and Resource</td>
<td></td>
</tr>
<tr>
<td>F&amp;W ECOL 300</td>
<td>Forest Biometry</td>
<td>4</td>
</tr>
<tr>
<td>GEOG/CIV ENGR/ ENVIR ST 377</td>
<td>An Introduction to Geographic Information Systems</td>
<td>3-4</td>
</tr>
<tr>
<td>or F&amp;W ECOL/ ENVIR ST/G O E G/ GEOG/GEOSCI/ LAND ARC 371</td>
<td>Introduction to Environmental Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>BOTANY/F&amp;W ECOL 402</td>
<td>Dendrology</td>
<td>2</td>
</tr>
<tr>
<td>F&amp;W ECOL 305</td>
<td>Forest Operations</td>
<td>2</td>
</tr>
</tbody>
</table>
F&W ECOL 390  Learning to Action: Professional Development 1
F&W ECOL 410  Principles of Silviculture 4
& F&W ECOL 411  and Practices of Silviculture
ENVIR ST/F&W ECOL 515  Natural Resources Policy (recommended, satisfies Communications B requirement)
or ENVIR ST/ ECON/POLE SCI/ URB R PL 449  Government and Natural Resources
or ENVIR ST/ GEOG 439  US Environmental Policy and Regulation
F&W ECOL 448  Disturbance Ecology 5
& F&W ECOL 449  and Disturbance Ecology Lab (I): Herbivores and Fire
& F&W ECOL 450  and Disturbance Ecology Lab (II): Forest Pathogens
F&W ECOL 550  Forest Ecology 4
& F&W ECOL 551  and Forest Ecology Lab
A A E/ENVIR ST/ F&W ECOL 652  Decision Methods for Natural Resource Managers
F&W ECOL 658  Forest Resources Practicum 3

Electives
Complete at least 12 credits from Major Electives (see list below) 12

Capstone
Grade of C or better required in Capstone
F&W ECOL 590  Integrated Resource Management 3

Total Credits 82-85

1 Students may take multiple courses in this category. Courses taken beyond the requirement may count as Major Electives.
2 May also fulfill CALS International Studies requirement.

MINIMUM GRADE REQUIREMENT
Students 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.

MAJOR ELECTIVES
FOREST SCIENCE MAJOR ELECTIVES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete at least 12 credits from the following courses. 12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students can focus their interests using the categories.

Soils and Landscapes:
F&W ECOL/ LAND ARC/ ZOOLOGY 565  Principles of Landscape Ecology
GEOG 329  Landforms and Landscapes of North America
LAND ARC 668  Restoration Ecology
SOIL SCI 325  Soils and Landscapes
SOIL SCI/ F&W ECOL 451  Environmental Biogeochemistry

Economics and Business:
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 371  Energy, Resources and 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 HR 300  Managing Organizations
M HR 305  Human Resource Management
M HR 401  The Management of Teams
OTM 300  Operations Management

Urban and Wildland Forest Management:
BOTANY/ F&W ECOL 455  The Vegetation of Wisconsin
HORT/ LAND ARC 263  Landscape Plants I
HORT/ AGRONOMY/ SOIL SCI 326  Plant Nutrition Management

GIS/Remote Sensing:
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

Wildlife and Fisheries Ecology:
GEOG/ BOTANY 338  Environmental Biogeography
F&W ECOL 306  Terrestrial Vertebrates: Life History and Ecology
F&W ECOL 318  Principles of Wildlife Ecology
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
ZOVOLOGY/AN SCI/F&W ECOL 520  Ornithology

ZOVOLOGY/AN SCI/F&W ECOL 521  Birds of Southern Wisconsin

Ecology and Biological Diversity

AGRONOMY/BOTANY/SOIL SCI 370  Grassland Ecology

ENTOM/ZOOLOGY 302  Introduction to Entomology

ENTOM/BOTANY/ZOOLOGY 473  Plant-Insect Interactions

BOTANY/PL PATH 332  Fungi

BOTANY/PL PATH 333  Biology of the Fungi

BOTANY 401  Vascular Flora of Wisconsin

BOTANY 422  Plant Geography

BOTANY/F&W ECOL/ZOOLOGY 460  General Ecology

ZOOLOGY/F&W ECOL/LAND ARC 565  Principles of Landscape Ecology

Conservation Biology

F&W ECOL/ENVIR ST 100  Forests of the World

F&W ECOL/ENVIR ST/ZOOLOGY 360  Extinction of Species

F&W ECOL/BOTANY/ENVIR ST/ZOOLOGY 651  Conservation Biology

F&W ECOL/ZOOLOGY 660  Climate Change Ecology

GEOG/ENVIR ST 339  Environmental Conservation

LAND ARC/ENVIR ST 361  Wetlands Ecology

ZOOLOGY/ANTHRO/BOTANY 410  Evolutionary Biology

Natural Resource Management and Policy

A A E/ECON/F&W ECOL 531  Natural Resource Economics

ENVIR ST/BSE 367  Renewable Energy Systems

ENVIR ST/GEOSCI 411  Energy Resources

ENVIR ST/ECON/POLI SCI/URB R PL 449  Government and Natural Resources

ENVIR ST/A A E/ECON/URB R PL 671  Energy Economics

F&W ECOL 561  Wildlife Management Techniques

LAND ARC/ENVIR ST 581  Prescribed Fire: Ecology and Implementation

PL PATH 300  Introduction to Plant Pathology

Earth and Atmospheric Science

ATM OCN 100  Weather and Climate

ATM OCN 101  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

F&W ECOL/SOIL SCI 451  Environmental Biogeochemistry

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

Human and Social Dimensions of Ecology

AMER IND/ENVIR ST 306  Indigenous Peoples and the Environment

AMER IND/ENVIR ST 341  Indigenous Environmental Communicators

AMER IND/ENVIR ST/GEOG 345  Managing Nature in Native North America

AMER IND/GEOG 410  Critical Indigenous Ecological Knowledges

AMER IND/ANTHRO/BOTANY 474  Ethnobotany

C&E SOC/F&W ECOL/SOC 248  Environment, Natural Resources, and Society

C&E SOC/CURRIC/ENVIR ST 405  Education for Sustainable Communities

C&E SOC/SOC 541  Environmental Stewardship and Social Justice

ENVIR ST 307  Literature of the Environment: Speaking for Nature

ENVIR ST/HIST SCI 353  History of Ecology

ENVIR ST/PHILOS 441  Environmental Ethics
**REQUIREMENTS**

UNIVERSITY DEGREE REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Degree</td>
<td>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.</td>
</tr>
<tr>
<td>Residency</td>
<td>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.</td>
</tr>
</tbody>
</table>

**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/current-students/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

**LEARNING OUTCOMES**

1. (Ecology) Understanding of taxonomy and ability to identify forest and other tree species, their distribution, and associated vegetation and wildlife.
2. (Ecology) Understanding of soil properties and processes, hydrology, water quality, and watershed functions.
3. (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.
4. (Ecology) Ability to make ecosystem, forest, and stand assessments.
5. (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.
6. (Forest Resources Measurement and Management) Ability to design and implement comprehensive inventories that meet specific objectives using appropriate sampling methods and units of measurement.
7. (Forest Resources Measurement and Management) Ability to identify and measure land areas and conduct spatial analysis.
8. (Forest Resources Measurement and Management) Ability to analyze inventory data and project future forest, stand, and tree conditions.
9. (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.
10. (Forest Resources Measurement and Management) Ability to analyze the economic, environmental, and social consequences of forest resource management strategies and decisions.
11. (Forest Resources Measurement and Management) Ability to develop management plans with specific multiple objectives and constraints.
12. (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.
13. (Forest Resources Measurement and Management) Understanding of the administration, ownership, and organization of forest management enterprises.
14. (Forest Resource Policy, Economics, and Administration) Understanding of forest policy and the processes by which it is developed.
15. (Forest Resource Policy, Economics, and Administration) Understanding of how federal, state, and local laws and regulations govern the practice of forestry.
17. (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

The four-year plan is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and Course Search & Enroll to determine your program of study. Your program of study will likely look different from this sample four-year plan. Consult with your advisor to determine the best path for you. Courses may not be offered every year, so plan ahead with your advisor.

SAMPLE FOREST SCIENCE FOUR-YEAR PLAN

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 112</td>
<td>3</td>
<td>MATH 113</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>F&amp;W ECOL/</td>
<td>3 CHEM 103, 108, 109</td>
<td>4-5</td>
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<tr>
<td>ENVIR ST 100</td>
<td>(recommended for CALS International Studies requirement)</td>
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<tr>
<td>INTER-AG 155</td>
<td>1 BIOLOGY/ BOTANY 130</td>
<td>5</td>
<td></td>
<td></td>
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<tr>
<td>(CALS First Year Seminar)</td>
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<td>A A E 215 or ECON 101</td>
<td>4 Ethnic Studies</td>
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<td>COMM A Course</td>
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<td>15-16</td>
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<th>Second Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOLOGY/ ZOOLOGY 101 &amp; BIOLOGY/ ZOOLOGY 102</td>
<td>5 F&amp;W ECOL 300</td>
<td>3 F&amp;W ECOL 658</td>
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<td>SOIL SCI 301</td>
<td>3 GEOG/ CIV ENGR/ ENVIR ST 377 or F&amp;W ECOL 371</td>
<td>3-4</td>
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<tr>
<td>F&amp;W ECOL/ BOTANY 402</td>
<td>2 Electives</td>
<td>6-7</td>
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<td>STAT 371 or 301</td>
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<td>13-15</td>
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<table>
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<th>Third Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
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| Humanities | 3 Major Elective | 3 |
| Social Sciences | | |

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Total Credits 119-122

Students must complete at least 120 total credits to be eligible for graduation.

1 MATH course dependent on placement score and transfer credit evaluation.

2 BIOLOGY/BOTANY 130, BIOLOGY/ZOOLOGY 101 & BIOLOGY/ZOOLOGY 102 are strongly recommended to satisfy the introductory biology requirement for forest science, but students may use BIOLOGY/BOTANY/ZOOLOGY 151 & BIOLOGY/BOTANY/ZOOLOGY 152.

3 Students should plan ahead for this course with their advisor, as it may not be offered every year.

ADVISING AND CAREERS

ADVISING

Students are assigned an academic advisor as well as a faculty advisor. Faculty members lead undergraduate research, advise students on career planning, and help students with critical thinking. Professional academic advisors help students plan their coursework, identify internship opportunities, as well as ways to get involved in department and campus activities.

Career Opportunities

Undergraduates in forest science prepare for a variety of career opportunities. They can work as foresters, arborists, park rangers, conservation scientists, environmental educators, geospatial analysts, researchers, and more. They also pursue graduate training in forestry, ecology, natural resource policy, or environmental law. Graduates of the program work for many organizations including the U.S. Forest Service, the Wisconsin Department of Natural Resources, the Society of American Foresters, the Aldo Leopold Foundation, environmental consultants, and private corporations.
PEOPLE

PROFESSORS
Bowe, Scott
Burivalova, Zuzana
Chen, Min
Drake, David
Karasov, William
Hua, Jessica
Kruger, Eric (chair)
Ozdogan, Mutlu
Pauli, Jonathan
Peery, M. Zach
Pidgeon, Anna
Radeloff, Volker
Rickenbach, Mark
Rissman, Adena
Townsend, Philip
Van Deelen, Timothy
Zuckerberg, Benjamin

AFFILIATED FACULTY
Balster, Nick (Soil Science)
Marin-Spiotta, Erika (Geography)

INSTRUCTORS AND TEACHING FACULTY
Berkelman, James
Nack, Jamie
Meindl, George

ADVISOR
Hochmuth, Allee

For faculty and staff profiles, visit https://forestandwildlifeecology.wisc.edu/people/faculty-and-staff/

WISCONSIN EXPERIENCE

INTERNSHIPS
All forest science undergraduates are required to complete an internship. Students find positions outdoors, as well as laboratory and analytical positions. See the Internship & Job Resources (https://forestandwildlifeecology.wisc.edu/academics/undergraduate-programs/internship-job-resources/) page for more information.

RESEARCH EXPERIENCE
Forest science undergraduates can undertake independent research by joining a professor’s field- or lab- based research activities. In their research experiences, students gain skills in a variety of forest science areas including forest structure and function, forest policy, human dimensions of forest management, forest economics, and plant species identification.

STUDENT ORGANIZATIONS
Students can join the Forestry Club, UW–Madison’s Student Chapter of the Society of American Foresters. The club organizes the annual holiday tree sale, and students can attend a national foresters conference and take part in trainings for prescribed burns, chainsaw use and tree identification.

COMPETITIVE TEAMS
Students can join a quiz bowl team that competes at the national Society of American Foresters annual conference.

GLOBAL ENGAGEMENT
Forest science students are encouraged to complete a study abroad experience. The department also offers an international course focused on the extinction of species that meets the CALS International Studies requirement. Students can find more information on the CALS study abroad advising page (https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/).

COMMUNITY ENGAGEMENT AND VOLUNTEERING
Students involved in the Forestry Club volunteer at a number of activities including the annual holiday tree sale. Forest science undergraduates also have opportunities to work with local schools to help kids understand the forests around them.

On campus, the Morgridge Center for Public Service (https://morgridge.wisc.edu/) provides resources to help students connect with volunteer opportunities based on their interests and goals.

RESOURCES AND SCHOLARSHIPS
There are five scholarships available to forest science students and fellowships are available for students to conduct research with professors. Students across the College of Agricultural and Life Sciences receive more than $1.25 million in scholarships annually. Learn more about college scholarships here (https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/).

UW–Madison offers a special practicum course for majors known as “Forestry Camp.” The Forest Resources Practicum is an intensive, three-week field course at the Kemp Natural Resources Station (https://kemp.wisc.edu/) in Woodruff, Wisconsin. Students learn firsthand about forest ecosystem structure, function, processes, and services. Subject areas include basic field skills, plant identification, GPS, forest soils, wildlife survey methods, and forest ecology. Students at Forestry Camp work closely with faculty and natural resource professionals.

ACCREDITATION

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