Forest Management (BS): Production Concentration

To see more about what you will learn in this program, visit the Learning Outcomes website (https://apps.oirp.ncsu.edu/pgas/).

The forest management, production concentration, trains professionals who will work for forest owners (industrial and individuals) to produce wood fiber and timber, wildlife habitat, and related services forested ecosystems provide. The program of study concentrates attention on the technical planning and economics of forest investments, harvesting, regeneration and operations. Subjects upon which forest management depends include botany, chemistry, ecology, entomology, forest measurements, hydrology, mapping, mathematics, plant physiology, soil science, and statistics.

The forest management program includes a nine-week summer practicum between the second and third years of coursework. The purpose of the practicum is to study forest measurement and management skills in the field during concentrated hands-on experiences. Seven weeks of this residential practicum occur at George Watts Hill Forest, north of Durham, North Carolina.

The Society of American Foresters accredits the North Carolina State forest management program.

For more information examine our website or contact one of the following:

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Assistant Director of Undergraduate Programs
3236 Jordan Hall

Department of Forestry and Environmental Resources
Box 8008
North Carolina State University,
Raleigh, North Carolina 27695-8008

Plan Requirements

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<td>Soil and Environmental Biogeochemistry</td>
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<td>Soil Classification</td>
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<td>Soils, Environmental Quality and Global Challenges</td>
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<td>Soil Physical Properties and Plant Growth</td>
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<td>Soil-Crop Management Systems</td>
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<td>ST 434</td>
<td>Applied Time Series</td>
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<td>Statistical Methods for Quality and Productivity Improvement</td>
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<td>Applied Multivariate and Longitudinal Data Analysis</td>
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<td>Introduction to Data Science</td>
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**Advanced Communication Electives**

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<tr>
<td>COM 289</td>
<td>Science Communication and Public Engagement</td>
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<tr>
<td>ENG 331</td>
<td>Communication for Engineering and Technology</td>
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<td>ENG 332</td>
<td>Communication for Business and Management</td>
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<td>ENG 333</td>
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**Spatial Technology Electives**

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<tr>
<td>FOR 353</td>
<td>GIS and Remote Sensing for Environmental Analysis and Assessment</td>
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<tr>
<td>GIS 280</td>
<td>Introduction to GIS</td>
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<td>Geographic Information Systems (GIS) in Soil Science and Agriculture</td>
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**Semester Sequence**

This is a sample.
### Third Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>FOR 303</td>
<td>Silvics and Forest Tree Physiology (^1)</td>
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<tr>
<td>FOR 430</td>
<td>Forest Health and Protection</td>
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<tr>
<td>FOR 319</td>
<td>Forest Economics (^1)</td>
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<tr>
<td>FOR 374</td>
<td>Forest Measurement, Modeling, and Inventory (^1)</td>
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<td>GEP Requirement (<a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/</a>)</td>
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<tr>
<td>NR 301</td>
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**Total Hours**: 16

#### Spring Semester

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<td>Advanced Communication Elective (p. (_))</td>
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<tr>
<td>Spatial Technology Elective (p. 14)</td>
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<td>FOR 304</td>
<td>Theory of Silviculture (^1)</td>
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<td>FOR 350</td>
<td>Professional Development III: Ethical Dilemmas in Natural Resource Management (^1)</td>
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**Total Hours**: 17

### Fourth Year

#### Fall Semester

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<td>FOR 405</td>
<td>Forest Management (^1)</td>
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<td>Renewable Natural Resource Management and Policy (^1)</td>
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**Total Hours**: 13

#### Spring Semester

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<td>Forest Inventory, Analysis and Planning (^1)</td>
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<td>Technical Elective (p. 3)</td>
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**Total Hours**: 14

**Total Hours**: 128

\(^1\) A grade of C- or better is required.

### Career Opportunities

Graduates in Forest Management are in high demand by state and federal land management agencies, forest products companies growing wood as a raw material, investment firms and insurance companies with land ownership portfolios, state forestry and agriculture extension services, the Peace Corps, environmental and wetland consulting firms, wood procurement companies, nursery and landscape management firms, and environmental organizations. After several years of experience, many graduates start their own businesses in forestry and land management consulting. Some graduates continue their education in graduate school to specialize in a wide variety of forestry and related programs.