The following courses are required for all Forestry students

**GENERAL EDUCATION** (28 credits)

- ENGL 150: Critical Thinking & Communication
- ENGL 250: Composition
- LIB 160: Information Literacy
- SP CM 212: Fundamentals of Public Speaking
- Social Science Elective: See list on Iowa State Website
- Ethics Elective: See list on Iowa State Website
- Humanities Elective: See list on Iowa State Website
- U.S. Diversity Elective: See list on Iowa State Website
- Int’l Perspective Elective: See list on Iowa State Website

**SCIENCE FOUNDATION** (21-23 credits)

- AGRON 182: Fundamentals of Soil Science
- BIOL 211 +Lab: Principles of Biology I +Lab
- CHEM 163 +Lab: College Chemistry +Lab
- MATH 140: College Algebra
- STAT 101 or 104: Introduction to Statistics
- Advanced Math Elective: MATH 151, 160, 165, 181, NREM 240, or STAT 301

**FORESTRY FOUNDATION** (31 credits)

- FOR 201: Forest Biology
- FOR 202: Wood Utilization
- FOR 203: Resource Measurements/Evaluation
- FOR 204: Forest Ecosystem Decision-Making
- FOR 205: Integrated Forestry Lab
- FOR 206: Fall Forestry Camp
- FOR 302: Silviculture
- FOR 451: Forest Resource Economics & Quantitative Methods
- FOR 454: Forestry Practicum
- NREM 110: Orientation in NREM
- NREM 120: Introduction to Renewable Resources
- NREM 211: Careers in Natural Resources

**FREE ELECTIVES** (12-20 credits)

Miscellaneous classes that can be applied towards graduation but not applied towards the major requirements. Can include A ECL, FOR, or NREM courses after minimum requirements met within option.

**Total Credits to Graduate**: 128 credits
NREM 104: PRACTICAL WORK EXPERIENCE

Required before graduation, students must complete one full-time summer career-related internship experience. Opportunities should be approved by current adviser prior to the start of the experience. Directly following the experience, summary forms must be submitted. Forms can be found at [http://www.nrem.iastate.edu/workexperience](http://www.nrem.iastate.edu/workexperience)

OPTIONS WITHIN FORESTRY

**Forest Ecosystem Management**
This option concentrates on management of the complete forest ecosystem. It deals with the spectrum of forestland from timber harvest to wilderness preservation. Students study forest biology, ecology, and management including recreational use, timber production, wildlife habitat.

Careers include: Forester, Ranger, Forest Ecologist, Forest Fire Fighter

**Interpretation of Natural Resources**
The Interpretation option concentrates on natural history, earth science, and communication techniques. Students in this option will study the natural environment and learn how to teach others about natural resource related topics.

Careers include: Park Ranger, Conservation Law Enforcement Officer, Environmental Educator, Naturalist, Natural Resource Policy or Public Relations

**Natural Resource Conservation & Restoration**
This area concentrates on management of natural resources other than timber. Students learn about the care of forests and other natural areas with an emphasis on ecosystem conservation & preservation, environmental benefits and human impact.

Careers include: Ranger, Restoration Ecologist, Environmental Consultant

**Urban & Community Forestry**
This field of forestry concentrates on the management of trees in urban settings such as city parks, greenbelt areas and boulevards. Students learn to implement site assessments, long-term management plans and pest management along with effective communication.

Careers include: Arborist, Municipal Forester, Arboretum Director