

COLLEGE OF NATURAL RESOURCES AND ENVIRONMENT
Department of Forest Resources and Environmental Conservation
Bachelor of Science in Forest Resources and Environmental Conservation
Major: Forestry
Option: Forest Resource Management
For Students Graduating in Calendar Year 2021

Minimum credit hours required for graduation is 120. Prerequisites or enrollment restrictions may apply to some courses; consult the undergraduate course catalog, timetable of classes, or your advisor.

Degree Core Requirements (21 credits)

- ____ FREC 2214 Introduction to Land and Field Measurements* (3 credits)
- ____ FREC 2314 Forest Biology and Dendrology* (2 credits)
- ____ FREC 2324 Dendrology Laboratory (1 credit)
- ____ FREC 2614 Human-Environment Systems (3 credits)
- ____ FREC 3524 Environmental Interpretation* (3 credits) **or** COMM 2004 Public Speaking (3 credits)
- ____ FREC 4014 (NR 4014) Natural Resources Economics* (3 credits)
- ____ FREC 4114 Information Technologies for Natural Resources Management* (3 credits)
- ____ FREC 4434 Natural Resource Policy* (3 credits)

Forest Resource Management Option Requirements (56 credits)

- ____ ACIS 1004 Accounting Foundations (3 credits)
 or ACIS 2115 Principles of Accounting (3 credits)
- ____ CHEM 1035 General Chemistry* (3 credits)
- ____ CHEM 1045 General Chemistry Lab* (1 credit)
- ____ CSES 3134 Soils in the Landscape (3 credits)
- ____ FREC 2414 Field Experiences in Forest Resources (2 credits)
- ____ FREC 2514 Wildland Fire Ecology & Management* (3 credits)
- ____ FREC 3214 Forest Biometrics* (3 credits)
- ____ FREC 3224 Forest Biometrics Lab* (1 credit)
- ____ FREC 3314 Forest Ecology and Silvics* (3 credits)
- ____ FREC 3324 Silvicultural Principles and Applications* (4 credits)
- ____ FREC 3344 Forestry Field Skills* (1 credit)
- ____ FREC 3354 (HORT 3354) Trees in the Built Environment* (3 credits)
 or FREC 4334 (CSES 4334) Principles and Practice of Agroforestry (3 credits)
- ____ FREC 3544 Outdoor Recreation Management (3 credits)
- ____ FREC 3714 Forest Harvesting* (3 credits)
- ____ FREC 3724 Forest Boundaries & Roads* (3 credits)
- ____ FREC 3734 Timber Procurement (2 credits)
- ____ FREC 4214 Forest Photogrammetry and Spatial Data Processing (3 credits)
- ____ FREC 4354 Forest Soil and Watershed Management* (3 credits)
- ____ FREC 4444 Integrated Forest Management Practicum (3 credits)
- ____ FREC 4514 Forest & Tree Pest Management* (3 credits)

*Course may have prerequisites, corequisites, or other restrictions. Consult Course Catalog for details.

Physical Science Elective (3 credits – choose one)

- _____ CHEM 1036 General Chemistry* (3 credits)
- _____ GEOS 1004 Earth Science (3 credits)
- _____ GEOS 1014 The Earth and Life through Time (3 credits)
- _____ GEOS 1024 Resources Geology and the Environment (3 credits)
- _____ PHYS 1055 Intro to Astronomy (3 credits)
- _____ PHYS 2205 General Physics* (3 credits)

CLE Requirements (36 credits)

Area 1: Writing and Discourse (6 credits)

- _____ ENGL 1105 First-Year Writing (3 credits)
- _____ ENGL 1106 First-Year Writing (3 credits)

Area 2: Ideas, Cultural Traditions, and Values (6 credits)

- _____ CLE Area 2 course: _____
- _____ CLE Area 2 course: _____

Area 3: Society and Human Behavior (6 credits)

- _____ AAEC 1005 Economics of the Food & Fiber System (3 credits)
- _____ AAEC 1006 Economics of Food & Fiber System (3 credits)

Area 4: Scientific Reasoning and Discovery (8 credits)

- _____ BIOL 1105 Principles of Biology (3 credits)
- _____ BIOL 1115 Principles of Biology Lab* (1 credit)
- _____ BIOL 1106 Principles of Biology (3 credits)
- _____ BIOL 1116 Principles of Biology Lab* (1 credit)

Area 5: Quantitative and Symbolic Reasoning (6 credits)

- _____ MATH 1025 Elementary Calculus or MATH 1225 Calculus of a Single Variable (3-4 credits)
- _____ MATH 1026 Elementary Calculus or MATH 1226 Calculus of a Single Variable (3-4 credits)

Area 6: Creativity and Aesthetic Experience (1 credit)

- _____ CLE Area 6 course: _____

Area 7: Critical Issues in a Global Context (3 credits)

- _____ FIW 2114 Principles of Fisheries & Wildlife Management* (3 credits)

Free Electives (7 credits)

*Course may have prerequisites, corequisites, or other restrictions. Consult Course Catalog for details.

IMPORTANT NOTES ON THE FOLLOWING PAGE

FOREST RESOURCE MANAGEMENT NOTES

1. **Satisfactory Progress:** By the end of the semester in which the student has attempted 60 hours (including transfer, advanced placement, advanced standing, and credit by examination), "satisfactory progress" towards a B.S. degree in the College of Natural Resources and Environment will include the following minimum criteria:
 - Having an in-major and overall grade point average of at least 2.0
 - Passing at least 24 semester credits that apply to the Curriculum for Liberal Education (CLE)
 - Passing the following courses, or their equivalents: BIOL 1105, 1106 and 1115, 1116; CHEM 1035, and MATH 1026
2. **Foreign Language Requirement:** A sequence of two (2) foreign language courses is required for graduation unless two (2) high school units of the same foreign language or six (6) transfer credit hours of foreign language have been earned. These credits do not count toward graduation. See catalog section on "Graduation Requirements".
3. **Policy on Student Exchanges:** Studying overseas or at another U.S. university is a wonderful opportunity to enhance your education. However, planning for an exchange should begin at least 9 months prior to leaving. This will allow time to determine what substitutions, if any, will be allowed and time to arrange your schedule at Virginia Tech to ensure that all requirements for graduation are met.
4. **In-major GPA Computation:** Includes all courses designated as FIW, FREC, GEOG, NR, and SBIO.
5. An in-major and overall GPA of 2.0 is required for graduation.
6. In accordance with university guidelines, courses satisfying degree core requirements may not be double counted to satisfy other areas of a degree (e.g. CLE).
7. Some of the listed courses have prerequisites and some courses must be taken in sequence to satisfy prerequisites. Be sure to consult with the University Catalog or check with your advisor.