

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 Operations and Business  
For Students Graduating in calendar year 2017

Minimum credit hours required for graduation is 120.

**Degree Core Requirements (21 credits):**

Forest Science (9 credits)

\_\_\_ FOR 2214: Introduction to Land and Field Measurements (3 credits)

\_\_\_ FOR 2314: Forest Biology and Dendrology (2 credits)

\_\_\_ FOR 2324: Dendrology Laboratory (1 credit)

\_\_\_ FOR 3314: Forest Ecology and Silvics (3 credits)

Geospatial Analysis (3 credits)

\_\_\_ FOR 1004 Digital Planet (3 credits)

Environmental Economics (3 credits)

\_\_\_ FOR 4014 Natural Resources Economics (3 credits)

Policy (3 credits)

\_\_\_ FOR 4434: Forest Resource Policy (3 credits)

Oral Communication (3 credits – choose one)

\_\_\_ COMM 2004: Public Speaking (3 credits) or FOR 3524 Environmental Interpretation (3 credits)

**Option Requirements (43 credits)**

\_\_\_ ACIS 2115 Principles of Accounting (3 credits)

\_\_\_ CSES 3134 Soils in the Landscape (3 credits) OR FOR 4354 Forest Soil and Watershed Management (3 credits)

\_\_\_ ENGL 3764 Technical Writing or ENGL 3104 Prof. Writing (3 credits)

\_\_\_ FIN 3054 Legal and Ethical Environment of Business (3 credits)

\_\_\_ FOR 2414 Field Experiences in Forest Resources (2 credits)

\_\_\_ FOR 2514 Wildland Fire: Ecology and Management (3 credits)

\_\_\_ FOR 3214 Forest Biometrics (3 credits)

\_\_\_ FOR 3224 Forest Biometrics Lab (1 credit)

\_\_\_ FOR 3324 Silvicultural Principles and Applications (4 credits)

\_\_\_ FOR 3344 Forest Field Studies (1 credit)

\_\_\_ FOR 3714 Forest Harvesting (3 credits)

\_\_\_ FOR 3724 Forest Boundaries and Roads (3 credits)

\_\_\_ FOR 3734 Timber Procurement (2 credits)

\_\_\_ FOR 4214 Forest Photogrammetry and Spatial Data Processing (3 credits)

\_\_\_ FOR 4444 Integrated Forest Management Practicum (3 credits)

\_\_\_ FOR 4714 Harvest Systems Evaluation (3 credits)

**Restricted Electives (15 credits from the following courses, substitutions possible with approval)**

- \_\_\_ AAEC 4424 Agricultural Financial Management (3 credits)
- \_\_\_ AAEC 3454 Small Business Management and Entrepreneurship (3 credits)
- \_\_\_ AAEC 2104 Personal Financial Planning (3 credits)
- \_\_\_ AAEC 3104 Financial Planning for Professionals (3 credits)
- \_\_\_ AAEC 3504 Marketing Agricultural Product (3 credits)
- \_\_\_ AAEC 4764 Real Estate Appraisal (3 credits)
- \_\_\_ AAEC 3314 Environmental Law (3 credits)
- \_\_\_ AAEC 4754 Real Estate Law (3 credits)
- \_\_\_ ACIS 2116 Principles of Accounting (3 credits)
- \_\_\_ COMM 3124 Interpersonal Communication (3 credits)
- \_\_\_ COMM 3064 Persuasion (3 credits)
- \_\_\_ COMM 1014 Introduction to Communication Studies (3 credits)
- \_\_\_ COMM 2044 Principles of Public Relations (3 credits)
- \_\_\_ FIN 3104 Introduction to Finance (3 credits)
- \_\_\_ SBIO 2614 Introduction to Forest Products and Marketing (3 credits)
- \_\_\_ SOC 2024 Minority Group Relations (3 credits)
- \_\_\_ UAP 4374 Land Use and Environment (3 credits)

**CLE Requirements (36 credit credits)**

**Area 1: Writing and Discourse (6 credits required)**

\_\_\_ ENGL 1105 Freshman English (3 credits)

\_\_\_ ENGL 1106 Freshman English (3 credits)

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

\_\_\_ CLE Area 2 course: \_\_\_\_\_ (3 credits)

\_\_\_ CLE Area 2 course: \_\_\_\_\_ (3 credits)

**Area 3: Society and Human Behavior (6 credits required)**

\_\_\_ AAEC 1005 Economics of the Food & Fiber System or ECON 2005 Principles of Economics  
(3 credits)

\_\_\_ AAEC 1006 Economics of the Food & Fiber System or ECON 2006 Principles of Economics  
(3 credits)

**Area 4: Scientific Reasoning and Discovery (8 credits required)**

\_\_\_ 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 required)**

\_\_\_ MATH 1025 Elementary Calculus (3 credits)

\_\_\_ MATH 1026 Elementary Calculus (3 credits)

**Area 6: Creativity and Aesthetic Experience (1 credit required)**

\_\_\_ CLE Area 6 course: \_\_\_\_\_ (1 credit)

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

\_\_\_ CLE Area 7 course: \_\_\_\_\_ (3 credits)

**Free Electives (5 credits)**

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**FOREST OPERATIONS AND BUSINESS 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 Natural Resources 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, 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, FOR, GEOG, NR and SBIO.
5. An in-major and overall GPA of 2.0 is required for graduation.
6. Some courses must be taken in sequence to satisfy **prerequisites**. Consult your advisor.