

COLLEGE OF NATURAL RESOURCES AND ENVIRONMENT
Department of Forest Resources and Environmental Conservation
Bachelor of Science in Forest Resources and Environmental Conservation
Major: Natural Resources Conservation
Option: Natural Resources Science Education
For students graduating in calendar year 2018

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 (52 credits)

___ Agriculture Elective (3 credits – choose one)

___ FOR 4334 Principles and Practice of Agroforestry (3 credits)

___ CSES 3444 World Crops & Crop Systems (3 credits)

___ CHEM 1035 General Chemistry (3 credits)

___ CHEM 1045 General Chemistry Lab (1 credit)

___ CHEM 1036 General Chemistry (3 credits)

___ CHEM 1046 General Chemistry Lab (1 credit)

___ GEOG 3114 Introduction to Meteorology (3 credits)

___ GEOG 3304 Geomorphology (3 credits) (pre-req.: GEOG 1104 or GEOS 1004 or GEOS 2104)

___ GEOS 1004 Physical Geology (3 credits)

___ GEOS 1014 Earth & Life through Time (4 credits)

___ GEOS 1024 Resources Geology (3 credits)

___ GEOS 1104 Physical Geology Lab (1 credit)

___ GEOS 1124 Resources Geology Lab (1 credit)

___ GEOS 3034 Introduction to Oceanography (3 credits) (pre-req.: MATH 1206 or MATH 2015 or MATH 1226 or MATH 1026)

___ Geospatial Analysis (3 credits – choose one)

___ FOR 4114 Information Technologies for Natural Resource Management (3 credits)

___ GEOG 2084 Principles of Geographic Information Systems (3 credits)

___ Hydrology Elective (3 credits – choose one)

___ FOR 4354 Forest Soil and Watershed Management (3 credits)

___ FOR 4374 Forested Wetlands (3 credits)

___ PHYS 1055 Introduction to Astronomy (3 credits)

___ PHYS 1155 Astronomy Lab (1 credit)

___ PHYS 2205 General Physics (3 credits)

___ PHYS 2215 General Physics Lab (1 credit)

___ Soils Elective (3 credits – choose one)

___ CSES 3134 Soils in the Landscape (3 credits)

___ CSES 3114 Soils (3 credits) (co-req. CSES 3124)

___ STAT 3615 Biological Statistics (3 credits)

CLE Requirements (36 credit hours)

Area 1: Writing and Discourse (6 credit hours required)

___ ENGL 1105 First Year Writing (3 credits)

___ ENGL 1106 First Year Writing (3 credits)

Area 2: Ideas, Cultural Traditions, and Values (6 credit hours required)

___ FOR 2554 Nature and American Values (3 credits)

___ CLE Area 2 course: _____ (3 credits)

Area 3: Society and Human Behavior (6 credit hours required)

___ AAEC 1005 Economics of the Food & Fiber System (3 credits)

___ HIST 3705 or 3706 History of Science (3 credits)

Area 4: Scientific Reasoning and Discovery (8 credit hours 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 credit hours required)

___ MATH 1025 Elementary Calculus (3 credits)

___ MATH 1026 Elementary Calculus (3 credits)

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

___ LAR 1144 Introduction to Landscape Architecture (1 credit)

Area 7: Critical Issues in a Global Context (3 credit hours required)

___ FIW 2114 Principles of Fisheries & Wildlife (3 credits)

Free Electives (11 credits)

IMPORTANT NOTES ON THE FOLLOWING PAGE.

NATURAL RESOURCES CONSERVATION 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 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, 1036, and MATH 1026

2. **Foreign Language Requirement:** A sequence of two (2) foreign language courses is required for graduation unless two (2) high school credits 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 GEOS.

5. An in-major and overall GPA of 2.0 is required for graduation.

6. Some of the listed courses have prerequisites. Be sure to consult with the University Catalog or check with your advisor.

7. Some courses must be taken in sequence to satisfy **prerequisites**. Consult your advisor.