

COLLEGE OF NATURAL RESOURCES

Bachelor of Science in Forestry

For students graduating in 2009

Watershed Management Option

| Fall Semester | | | | | Spring Semester | | | | |
|---|------|--|----|--|--|------|---|----|--|
| Freshman Year | | | | | | | | | |
| Biol | 1105 | Principles of Biology (CA4) | 3 | | Biol | 1106 | Principles of Biology (CA4) | 3 | |
| Biol | 1115 | Principles of Biology Lab (CA4) | 1 | | Biol | 1116 | Principles of Biology Lab (CA4) | 1 | |
| Chem | 1035 | General Chemistry | 3 | | Chem | 1036 | General Chemistry | 3 | |
| Chem | 1045 | General Chemistry Lab | 1 | | Chem | 1046 | General Chemistry Lab | 1 | |
| Engl | 1105 | Freshman English (C1) | 3 | | Engl | 1106 | Freshman English (C1) | 3 | |
| Math | 1016 | Elem. Calculus w/Trig I ^a (CA5) | 3 | | Math | 2015 | Elem. Calculus w/Trig II (CA5) | 3 | |
| NR | 1114 | Intro. To Renewable Nat. Res. | 2 | | Core elective area 2 | | | 3 | |
| | | | 16 | | | | | 17 | |
| Sophomore Year | | | | | | | | | |
| Geos | 1004 | Phys. Geology | 3 | | CSES | 3134 | Soils in the Landscape | 3 | |
| For | 2214 | Intro. For. Measurements* | 3 | | BSE | 2384 | Soil & Water Resource Mgt. ¹ | 3 | |
| For | 2314 | For. Biology/Dendrology | 2 | | For | 2554 | Nature & American Values (CA2) | 3 | |
| For | 2324 | Dendrology | 1 | | CSES | 3604 | Fund. of Env. Science | 3 | |
| AAEC | 1005 | Econ. of Food & Fiber (CA3) ^b | 3 | | Phys | 2006 | General Physics | 3 | |
| Phys | 2005 | General Physics | 3 | | | | | | |
| Core elective area 6 | | | 1 | | | | | | |
| *For. Measure. Kit required; approx. cost \$250. | | | 16 | | | | | 15 | |
| Junior Year | | | | | | | | | |
| FIW | 2114 | Princ. Fish & Wild. Mgt. (CA7) | 3 | | For | 3216 | Forest Measurements | 3 | |
| For | 3215 | Forest Measurements | 3 | | For | 3324 | Silvic. Principles & Applic. | 4 | |
| For | 3314 | Forest Ecology/Silvics | 3 | | For | 4114 | Info. Tech for Nat. Res. Mgt. | 3 | |
| Free elective | | | 3 | | Free elective | | | 3 | |
| Core elective area 3 | | | 3 | | 2007 Spring Camp will cost approximately \$600. | | | | |
| | | | | | For | 3224 | For. Measurement Field Lab | 1 | |
| | | | | | For | 3334 | Silviculture Field Lab | 1 | |
| | | | | | For | 3434 | Forest Management Field Lab | 1 | |
| | | | | | For | 3344 | Forestry Field Studies | 1 | |
| | | | 15 | | | | | 17 | |
| Senior Year | | | | | | | | | |
| For | 4354 | Forest Soils & Hydrology ¹ | 3 | | For | 4444 | Integrated For. Mgt Practicum | 3 | |
| For | 4424 | For. Resource Management ^c | 3 | | Biol | 4004 | Freshwater Ecology ^{1,2} | 3 | |
| UAP | 4374 | Land Use and Environment ¹ | 3 | | For | 4374 | Forested Wetlands ¹ | 3 | |
| ALS | 4614 | Watershed Assess, Mgt, Policy ¹ | 2 | | AAEC | 3314 | Environmental Law ¹ | 3 | |
| Free elective | | | 3 | | Free elective | | | 3 | |
| Free elective | | | 3 | | | | | | |
| | | | 17 | | | | | 15 | |
| Total Credits for Graduation = 128 | | | | | | | | | |

^a Assumes completion of college algebra, functions, exponentials, and logarithms, matrices, sequences, and series in high school. If not, must also take math 1015 for background. Must take Math 1016 before taking Math 2015.

^b Or ECON 2005 Principles of Economics

^c Or FOR 3714 Forest Harvesting

CA = Core Area

¹ Denotes courses integral to Watershed Management Minor

² Or BIOL 4354 Aquatic Entomology¹, FIW 4534 Ecology and Management of Wetlands¹, LAR 3004 Natural and Human Systems¹

WATERSHED 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 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 University Core Curriculum
- Passing the following courses or their equivalents: BIOL 1105, 1106, 1115, and 1116; CHEM 1035 and 1036; and MATH 2015.

2. **Foreign Language Requirement**

Students who did not successfully complete at least two units of a single foreign or classical language during high school must successfully complete:

a) six semester hours of a single college level foreign or classical language (credits do not count towards graduation)

or

b) receive credit by examination for six semester hours of a single foreign or classical language (credits do not count towards graduation)

This must be accomplished by the end of the academic year in which the student has attempted 60 semester credit hours (including transfer, advanced placement, advanced standing, and credit by examination). For additional information refer to the Language Study Requirement section of the undergraduate catalog.

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. You must complete the Exchange Program checklist (available in 138 Cheatham Hall) and obtain the required signatures before beginning an exchange program.

4. Courses should be taken in the sequence shown to ensure that **prerequisites** are met.

5. **In-major grade point average computation**

Includes all courses designated as FIW, FOR, GEOG, NR, WOOD, and GEOS.

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

7. Forestry majors entering Virginia Tech prior to Fall 2005 are required to take Forest Ecology and Silvics (FOR 3314) and one additional WI of their choice to complete the writing intensive requirement. Students will also gain extensive experience in writing, speaking and use of visual media throughout the curriculum including: Introduction to Forest Measurements (FOR 2214), Silviculture: Principles and Applications (FOR 3324), and Integrated Forest Management Practicum (FOR 4444). These and other classes will fulfill the ViEWS (Visual Expression, Written and Spoken) curriculum requirement for students entering Virginia Tech in Fall 2005 or later.