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University Registrar

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 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 (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 3774: Business 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)

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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 3504 Marketing Agricultural Product (3 credits) (pre-req.: AAEC 2104)
____ 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) (pre-req.: COMM 1016 or ENGL 1106)
____ COMM 1014 Introduction to Communication Studies (3 credits)
____ COMM 2044 Principles of Public Relations (3 credits) (pre-req.: COMM 1014)
____ FIN 3104 Introduction to Finance (3 credits)
____ MKTG 3104 Marketing Management
____ MGT 3064 Cornerstones of Entrepreneurship
____ MGT 3304 Management Theory and Leadership Practices
____ 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)

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CLE Requirements (36 credit credits)

Area 1: Writing and Discourse (6 credits required)
____ ENGL 1105 First Year Writing (3 credits)
____ ENGL 1106 First Year Writing (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 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.