### **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 2020

Minimum credit hours required for graduation is 120. Prerequisites or enrollment restrictions may apply to some courses. Consult the undergraduate course catalog or the time table of classes.

Degree Core Rec	uirements (21 credits):					
Forest Science (9	credits – take all)					
FREC 2214 Introduction to Land and Field Measurements (3 credits)						
FREC 23	FREC 2314 Forest Biology and Dendrology (2 credits)					
FREC 23	FREC 2324 Dendrology Laboratory (1 credit)					
FREC 33	FREC 3314 Forest Ecology and Silvics (3 credits)					
	sis (3 credits – take all)					
•	114 Information Technologies for Natural Resource Management (3 credits)					
	onomics (3 credits – take all)					
	FREC 4014 (NR 4014) Natural Resources Economics (3 credits)					
Policy (3 credits -						
FREC 4434 Natural Resource Policy (3 credits)						
-	ion (3 credits – take one)					
	2004 Public Speaking (3 credits) or FREC 3524 Environmental Interpretation (3 credits)					
COMM	1 tone speaking (5 credits) of 1 the 3324 Environmental interpretation (5 credits)					
Option Requirem	nents (43 credits)					
	Accounting Foundations (3 credits) or ACIS 2115 Principles of Accounting (3 credits)					
CSES 3134	Soils in the Landscape (3 credits) or FREC 4354 Forest Soil and Watershed					
	Management (3 credits)					
	Technical Writing (3 credits) or ENGL 3774 Business Writing (3 credits)					
FIN 3054	Legal and Ethical Environment of Business (3 credits)					
FREC 2414	Field Experiences in Forest Resources (2 credits)					
FREC 2514	Wildland Fire: Ecology and Management (3 credits)					
FREC 3214	Forest Biometrics (3 credits)					
FREC 3224	Forest Biometrics Lab (1 credit)					
FREC 3324	Silvicultural Principles and Applications (4 credits)					
FREC 3344	Forest Field Studies (1 credit)					
FREC 3714	Forest Harvesting (3 credits)					
FREC 3724	Forest Boundaries and Roads (3 credits)					
FREC 3734	Timber Procurement (2 credits)					
FREC 4214	Forest Photogrammetry and Spatial Data Processing (3 credits)					
FREC 4444	Integrated Forest Management Practicum (3 credits)					
FREC 4714	Harvest Systems Evaluation (3 credits)					

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Restricted Electives (15 credits from the following courses, substitutions possible with approval)						
	AAEC	2104	Personal Financial Planning (3 credits)			
	<b>AAEC</b>	3314	Environmental Law (3 credits)			
	<b>AAEC</b>	3454	Small Business Management and Entrepreneurship (3 credits)			
	<b>AAEC</b>	3504	Marketing Agricultural Products (3 credits)			
All Continues	<b>AAEC</b>	4424	Agricultural Financial Management (3 credits)			
	<b>AAEC</b>	4754	Real Estate Law (3 credits)			
	<b>AAEC</b>	4764	Real Estate Appraisal (3 credits)			
	ACIS	2116	Principles of Accounting (3 credits)			
	COMM	1014	Introduction to Communication Studies (3 credits)			
	COMM	2044	Principles of Public Relations (3 credits)			
	COMM	3064	Persuasion (3 credits)			
	COMM	3124	Interpersonal Communication (3 credits)			
	FIN	3104	Introduction to Finance (3 credits)			
	MGT	3064	Cornerstones of Entrepreneurship and Innovation (3 credits)			
	MGT	3304	Management Theory and Leadership Practices (3 credits)			
	<b>MKTG</b>	3104	Marketing Management (3 credits)			
	SBIO	2614	Introduction to Forest Products and Marketing (3 credits)			
	SOC		Minority Group Relations (3 credits)			
	UAP	4374	Land Use and Environment (3 credits)			

<sup>\*\*\*</sup>NOTICE: Some courses have pre-requisites. Please check the Course Catalog for details.\*\*\*

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### 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: (3 credits) CLE Area 2 course: (3 credits) Area 3: Society and Human Behavior (6 credits) \_\_\_\_ AAEC 1005 Econ of the Food & Fiber System or ECON 2005 Principles of Economics (3 credits) AAEC 1006 Econ of the Food & Fiber System or ECON 2006 Principles of Economics (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 (3 credits) MATH 1026 Elementary Calculus (3 credits) Area 6: Creativity and Aesthetic Experience (1 credit) CLE Area 6 course: (1 credit) Area 7: Critical Issues in a Global Context (3 credits) (3 credits) CLE Area 7 course: Free Electives (5 credits)



#### FOREST OPERATIONS AND BUSINESS NOTES

- 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 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;, 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.