ENVIRONMENTAL CONSERVATION & SOCIETY MAJOR

Program Curriculum

Code	Title	Credits
Degree Core Requirements		
FREC 2214	Introduction to Land and Field Measurements	3
FREC 2314	Forest Biology and Dendrology	2
FREC 2324	Dendrology Laboratory	1
FREC 2614	Human-Environment Systems	3
FREC 4004	Professional Skills in Natural Resources	1
FREC 4014	Natural Resources Economics	3
FREC 4114	Information Technologies for Natural Resource Management	3
FREC 4434	Natural Resource Policy	3
Subtotal		19
Major Requirements		
FIW 2114	Principles of Fish and Wildlife Conservation	3
FIW 4464	Human Dimensions of Fisheries and Wildlife	3
FREC 2004	Forest Ecosystems	3
or FREC 3314	Forest Ecology and Silvics	
FREC 3524	Environmental Interpretation (Pathways Concept 1 - Discourse - Advanced)	3
FREC 3544	Outdoor Recreation Planning and Management	3
Subtotal		15
Restricted Electives		
Business Restricted Electives		3
Environmental Education and Outreach Restricted Electives		3
Environmental Science Restricted Electives		6
Human Dimensions Restricted Electives		3
Role of Science in Society Restricted Elective		3
Subtotal		18
Track Areas with Remaining Required Electives		
Students **must** customize their curriculum to complete one of the following three tracks by selecting an additional 9 credits from one of the three sets of restricted electives outlined below. [1]		9
Recreation and Tourism Management Track		
Environmental Education and Outreach Track		
Leadership and Sustainability Track		
Subtotal		9
Free Electives		
Select free electives to total 120 credits.		17
Subtotal		17
Pathways to General Education		
Pathways Concept 1 - Discourse		
COMM 1015	Communication Skills	3
or ENGL 1105	First-Year Writing	
COMM 1016	Communication Skills	3
or ENGL 1106	First-Year Writing	
Completion of FREC 3524 fulfills Pathway 1a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G01A)		
Pathways Concept 2 - Critical Thinking in the Humanities		
FREC 2554	Leadership for Global Sustainability	3
Select three credits in Pathway 2 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G02)		3
Pathways Concept 3 - Reasoning in the Social Sciences		
AAEC 1005	Economics of the Food and Fiber System	3
or ECON 2005	Principles of Economics	
Select one of the following:		3
COMM 1014	Introduction to Communication	
GEOG 1004	Introduction to Human Geography	
GEOG 1115	Seeking Sustainability	
PSCI 1014	Introduction to United States Government and Politics	
PSCI 1024	Introduction to Comparative Government and Politics	
PSYC 1004	Introductory Psychology	
SOC 1004	Introductory Sociology	
SOC 1014	Introduction to Social Anthropology	
Pathways Concept 4 - Reasoning in the Natural Sciences		
BIOL 1105	Principles of Biology	3
BIOL 1106	Principles of Biology	3
Pathways Concept 5 - Quantitative and Computational Thinking		
Select three credits in Pathway 5f (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05F)		3
MATH 1025	Elementary Calculus	3
STAT 3604	Statistics for Social Science [1]	3
or STAT 3615	Biological Statistics	
Pathways Concept 6 - Critique and Practice in Design and the Arts		
Select three credits in Pathway 6a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06A)		3
Select three credits in Pathway 6d (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06D)		3
Pathways Concept 7 - Critical Analysis of Identity and Equity in the United States		
Select three credits in Pathway 7 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G07) [2]		3
Subtotal		42
Total Credits		**120**

[1] 6 of the 9 credits must be 3000-level or above.

[2] A course taken to satisfy another area of Pathways that is also listed within Concept 7 will satisfy the Concept 7 requirement simultaneously.

Restricted Electives

Code	Title	Credits
Business Restricted Electives		
AAEC 2104	Personal Financial Planning	3
AAEC 3454	Small Business Management and Entrepreneurship	3
ACIS 1004	Accounting Foundations	3
ACIS 2115	Principles of Accounting	3
ENGL 4804	Grant Proposals and Reports	3

FREC 4024	Forest Resources Management and Business	3
MGT 2064	Foundations of Entrepreneurship	3
MGT 3304	Management Theory and Leadership Practice	3
MGT 4334	Ethical Leadership and Corporate Social Responsibility	3
MKTG 3104	Marketing Management	3
SBIO 2614	Introduction to Forest Products Marketing	3
SBIO 3004	Sustainable Nature-Based Enterprises	3
SBIO 3464	Sustainable Operations Management	3
Environmental Education & Outreach Restricted Electives		
ALCE 3004	Educational Programs in Agricultural and Life Sciences	3
ALCE 3624	Communicating Ag and Life Sciences in Writing	3
ALCE 4004	Teaching Adults in Agriculture	2
ALCE 4014	Introduction to Cooperative Extension	3
ALCE 4034	Methods of Planning Education Programs for Agriculture	3
ALCE 4304	Community Education and Development	3
ALCE 4884	Youth Program Management	3
CMST 3064	Persuasion	3
HUM 3204	Multicultural Communication	3
FREC 3574	Environmental Education Service Learning	3
PR 2044	Principles of Public Relations	3
TA 2024	Introduction to Acting	3
Environmental Science Restricted Electives		
BIOL 2504	General Zoology	3
BIOL 2704	Evolutionary Biology	3
BIOL 2804	Ecology	3
BIOL 4004	Freshwater Ecology	4
CSES 3114	Soils	3
ENSC 3134	Soils in the Landscape	3
ENSC 3604	Fundamentals of Environmental Science	3
FIW 2314	Wildlife Biology	3
FIW 2324	Wildlife Field Biology	3
FIW 3514	Fisheries Techniques	3
FIW 4214	Wildlife Field Techniques	3
FIW 4314	Conservation of Biological Diversity	4
FIW 4334	Mammalogy	4
FIW 4414	Population Dynamics and Estimation	3
FIW 4424	Ichthyology	4
FIW 4434	Wildlife Habitat Ecology and Management	3
FIW 4534	Ecology and Management of Wetland Systems	3
FIW 4614	Fish Ecology	3
FIW 4624	Marine Ecology	3
FREC 2514	Wildland Fire: Ecology and Management	3
FREC 3354	Trees in the Built Environment	3
FREC 3364	Environmental Silviculture	3
FREC 3714	Forest Harvesting	3
FREC 4334	Principles and Practice of Agroforestry	3
FREC 4354	Forest Soil and Watershed Management	3
FREC 4374	Forested Wetlands	3
FREC 4414	Advanced Wildland Fire Management	3
HORT 2134	Plants and Greenspaces in Urban Communities	3
SBIO 2784	Global Forest Sustainability	3
SPES 2244	World Crops: Food and Culture	3
Human Dimensions Restricted Electives		
AAEC 3314	Environmental Law	3
AAEC 3324	Environment and Sustainable Development Economics	3
AAEC 4754		3
FREC 2124	Forests, Society & Climate	3
FREC 4174	Climate Change and the International Policy Framework	3
FREC 4454	Urban and Community Forestry	3
FREC 4464	Water Resources Policy and Economics	3
GEOG 3104	Environmental Problems, Population, and Development	3
LAR 3044	Land Analysis and Site Planning	3
LAR 3264	People Community and Place	3
PHIL 2304	Global Ethics	3
PSCI 3214	Political Participation	3
PSCI 3224	Public Opinion	3
PSCI 3334	Judicial Process	3
PSCI 3354	Constitutional Law: Structures and Relationships	3
PSCI 3414	Public Administration	3
PSCI 3424	State and Local Government	3
PSCI 3554	Comparative Political Economy	3
PSCI 3744	Public Policy Analysis	3
SOC 2004	Social Problems	3
SOC 3004	Social Inequality	3
SOC 3204	Social Research Methods	4
SOC 3504	Population Trends and Issues	3
SPIA 2554	Collaborative Policy-Making and Planning	3
SPIA 3704	Urban Contention and Mobilization	3
UAP 3014	Urban Policy and Planning	3
UAP 3344	Global Environmental Issues: Interdisciplinary Perspectives	3
UAP 3354	Introduction to Environmental Policy and Planning	3
UAP 4264	Environmental Ethics and Policy	3
UAP 4344	Law of Critical Environmental Areas	3
UAP 4374	Land Use and Environment: Planning and Policy [1]	3
Leadership & Sustainability Restricted Electives (only 3 credits may be below 2000-level)		
ALCE 3014	Leadership Effectiveness for Professionals in Agricultural Organizations	3
GEOG 1116	Seeking Sustainability	3
GEOG 4444	Practicing Sustainability	3
GEOG 2244	Sustainable Urbanization	3
LDRS 1414	Citizen Leadership	3
LDRS 3104	The Dynamics of Leadership	3
LDRS 3304	Elements of Team Leadership	3
NR 4105	Leadership in Natural Resources	3
NR 4106	Leadership in Natural Resources	3
SBIO 3004	Sustainable Nature-Based Enterprises	3
SBIO 3454	Society, Sustainability Biomaterials and Energy	3
UAP 1024	Leadership, Service, and Public Problem Solving	3

UAP 4394	Community Renewable Energy Systems	3
Outdoor Recreation & Tourism Management Restricted Electives		
HNFE 2274	Wilderness First Responder	3
HTM 2454	Travel & Tourism Management	3
HTM 2464	Introduction to Service	3
HTM 3424	Event Management	3
HTM 3484	Socio-Cultural Impacts of Tourism	3
HTM 4354	Information Technology and Social Media in Hospitality and Tourism	3
HTM 4444	Winery Tourism	3
HTM 4484	International Tourism	3
Study Abroad	Any study abroad course focusing on human-environment interactions	3-6
Role of Science in Society		
HIST 3706	History of Science	3
PHIL 2605	Reason and Revolution in Science	3
PHIL 2606	Reason and Revolution in Science	3
RLCL 2464	Religion and Science	3
STS 1504	Introduction to Science, Technology, and Society	3
STS 2154	The Life Sciences and Society	3
STS 2454	Science, Techology, and Environment	3
STS 3104	Science and Technology in Modern Society	3
STS 3334	Energy and Society	3

Environmental Conservation & Society 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 Forest Resources and Environmental Conservation 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 Pathways requirements
   - Passing the following courses or their equivalents: BIOL 1105 Principles of Biology, BIOL 1106 Principles of Biology and MATH 1025 Elementary Calculus
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:** If studying overseas or at another U.S. university, begin planning at least 9 months prior to your departure to allow time to determine what substitutions, if any, will be allowed and to arrange your schedule to ensure that all requirements for graduation will be 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., Pathways requirements).
7. **Prerequisites:** Some courses must be taken in sequence to satisfy prerequisites. Check prerequisites for each course carefully as these are determined by each department individually. Consult with the University Course Catalog, Timetable of Classes, and your advisor.
8. **Acceptable Substitutions:**
   a. STAT 3604 Statistics for Social Science or STAT 3615 Biological Statistics: STAT 3005 Statistical Methods
   b. MATH 1025 Elementary Calculus: MATH 1225 Calculus of a Single Variable