

ENVIRONMENTAL CONSERVATION & SOCIETY MAJOR

Program Curriculum

| Code | Title | Credits |
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| 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/NR 4004 | Professional Skills in Natural Resources | 1 |
| FREC/NR 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 |
| FREC 1024 | Introduction to Environmental Conservation and Society | 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 |
| FREC 3774 | Implementing Sustainability: Navigating the Human Element | 3 |
| Subtotal | | 21 |
| Environmental Conservation & Society Restricted Electives | | |
| Business Restricted Electives | | 3 |
| Environmental Science Restricted Electives | | 6 |
| Human Dimensions Restricted Electives | | 6 |
| Subtotal | | 15 |
| Track Areas with Remaining Required Courses | | |
| Recreation and Tourism Management Track | | |
| FREC 4544 | Applied Outdoor Recreation Planning | |
| Outdoor Recreation Management & Tourism Restricted Electives | | |
| Environmental Education & Outreach Track | | |
| FREC 3574 | Environmental Education Service Learning | |
| Environmental Education and Outreach Restricted Electives | | |
| Leadership & Sustainability Restricted Elective | | |
| Leadership and Sustainability Track | | |
| Leadership & Sustainability Restricted Electives | | |
| Subtotal | | 9 |
| Free Electives (Select Free Electives to total 120 credits) | | |
| Subtotal | | 14 |

Pathways to General Education

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| <i>Pathways Concept 1 - Discourse</i> | | |
| 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) | | |
| <i>Pathways Concept 2 - Critical Thinking in the Humanities</i> | | |
| FREC/LAR/NR 2554 | Leadership for Global Sustainability | 3 |
| Select three credits in Pathway 2 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G02) | | 3 |
| <i>Pathways Concept 3 - Reasoning in the Social Sciences</i> | | |
| 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/NR 1115 | Seeking Sustainability | |
| PSCI 1014 | Introduction to United States Government and Politics | |
| PSCI/IS 1024 | Comp Gov & Politics | |
| SOC 1004 | Introductory Sociology | |
| <i>Pathways Concept 4 - Reasoning in the Natural Sciences</i> | | |
| BIOL 1105 | Principles of Biology | 3 |
| BIOL 1106 | Principles of Biology | 3 |
| <i>Pathways Concept 5 - Quantitative and Computational Thinking</i> | | |
| Select three credits in Pathway 5f (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05F) or Pathway 5a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05A) | | 3 |
| MATH 1025 | Elementary Calculus | 3 |
| STAT 3604 | Statistics for Social Science | 3 |
| or STAT 3615 | Biological Statistics | |
| <i>Pathways Concept 6 - Critique and Practice in Design and the Arts</i> | | |
| 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 |
| <i>Pathways Concept 7 - Critical Analysis of Identity and Equity in the United States</i> | | |
| Select three credits in Pathway 7 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G07) | | 3 |
| Subtotal | | 42 |
| Total Credits | | 120 |

Restricted Electives

| Code | Title | Credits |
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| Note: Some courses are listed on multiple Restricted Electives Lists. When choosing one of those courses, it will only fulfill one restricted elective requirement. | | |
| Business Restricted Electives | | |

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| AAEC 2104 | Personal Financial Planning | 3 | FREC/CSES 4334 | Principles and Practice of Agroforestry | 3 |
| AAEC 3454 | Small Business Management and Entrepreneurship | 3 | FREC 4354 | Forest Soil and Watershed Management | 3 |
| ACIS 1004 | Accounting Foundations | 3 | FREC 4374 | Forested Wetlands | 3 |
| ACIS 2115 | Principles of Accounting | 3 | FREC 4414 | Advanced Wildland Fire Management | 3 |
| ENGL 4804 | Grant Proposals and Reports | 3 | HORT/FREC 2134 | Plants and Greenspaces in Urban Communities | 3 |
| FREC 4024 | Forest Resources Management and Business | 3 | GEOG 4224 | Tracking Environmental Change | 3 |
| MGT 2064 | Foundations of Entrepreneurship | 3 | LAR 3044 | Land Analysis and Site Planning | 3 |
| MGT 3304 | Management Theory and Leadership Practice | 3 | SBIO/FREC 2784 | Global Forest Sustainability | 3 |
| MGT 4334 | Ethical Leadership and Corporate Social Responsibility | 3 | SPES 2244 | World Crops: Food and Culture | 3 |
| MKTG 3104 | Marketing Management | 3 | Human Dimensions Restricted Electives | | |
| SBIO 2614 | Introduction to Forest Products Marketing | 3 | AAEC 3314 | Environmental Law | 3 |
| SBIO 3004 | Sustainable Nature-Based Enterprises | 3 | AAEC 3324 | Environment and Sustainable Development Economics | 3 |
| SBIO 3464 | Sustainable Operations Management | 3 | FREC 2124 | Forests, Society & Climate | 3 |
| Environmental Education & Outreach Restricted Electives | | | FREC 3514 | Inclusion and Belonging in Environmental Conservation | 3 |
| ALCE 3004 | Educational Programs in Agricultural and Life Sciences | 3 | FREC/IS/PSCI 4174 | Climate Change and the International Policy Framework | 3 |
| ALCE 3624 | Communicating Ag and Life Sciences in Writing | 3 | FREC 4454 | Urban and Community Forestry | 3 |
| ALCE 4014 | Introduction to Cooperative Extension | 3 | FREC/AAEC/WATR 4464 | Water Resources Policy and Economics | 3 |
| ALCE 4034 | Methods of Planning Education Programs for Agriculture | 3 | GEOG/WATR 2004 | Water, Environment, and Society | 3 |
| ALCE 4304 | Community Education and Development | 3 | GEOG/SPIA 2244 | Sustainable Urbanization | 3 |
| ALCE/EDCT 4884 | Youth Program Management | 3 | GEOG 3104 | Environmental Justice, Resources and Development | 3 |
| CMST 3064 | Persuasion | 3 | GEOG 4284 | Human Dimensions of Coastal Social-Ecological Systems | 3 |
| HUM/RLCL 3204 | Multicultural Communication | 3 | GEOG 4414 | Climate Change and Societal Impacts | 3 |
| PR 2044 | Principles of Public Relations | 3 | LAR 3264 | People Community and Place | 3 |
| TA 2024 | Introduction to Acting | 3 | PSCI/GEOG/IS 2064 | The Global Economy and World Politics | 3 |
| Environmental Science Restricted Electives | | | PSCI/IS 3064 | Food Politics | 3 |
| BIOL 2504 | General Zoology | 3 | PSCI/IS 3144 | Global Governance and Public Policy | 3 |
| BIOL 2704 | Evolutionary Biology | 3 | PSCI/IS 3175 | Global Development | 3 |
| BIOL 2804 | Ecology | 3 | PSCI 3214 | Political Participation | 3 |
| BIOL 4004 | Freshwater Ecology | 4 | PSCI 3224 | Public Opinion | 3 |
| CSES 3114/GEOS 3614 | Soils | 3 | PSCI 3334 | Judicial Process | 3 |
| ENSC 3134 | Soils in the Landscape | 3 | PSCI 3354 | Constitutional Law: Structures and Relationships | 3 |
| ENSC 3604 | Fundamentals of Environmental Science | 3 | PSCI/IS 3374 | The Politics of Energy | 3 |
| FIW 2314 | Wildlife Biology | 3 | PSCI 3414/UAP 3434 | Public Administration | 3 |
| FIW 2324 | Wildlife Field Biology | 3 | PSCI 3424 | State and Local Government | 3 |
| FIW 3514 | Fisheries Techniques | 3 | PSCI/UAP 3744 | Public Policy Analysis | 3 |
| FIW 4214 | Wildlife Field Techniques | 3 | REAL 4754 | Real Estate Law | 3 |
| FIW 4314 | Conservation of Biological Diversity | 4 | SOC 3204 | Social Research Methods | 4 |
| FIW 4334 | Mammalogy | 4 | SPIA 2554 | Collaborative Policy-Making and Planning | 3 |
| FIW 4414 | Population Dynamics and Estimation | 3 | SPIA 3704 | Urban Contention and Mobilization | 3 |
| FIW 4424 | Ichthyology | 4 | STS 2444 | Global Science and Technology Policy | 3 |
| FIW 4434 | Wildlife Habitat Ecology and Management | 3 | STS 2454 | Science, Technology, and Environment | 3 |
| FIW 4534 | Ecology and Management of Wetland Systems | 3 | STS 3334 | Energy and Society | 3 |
| FIW 4614 | Fish Ecology | 3 | UAP 3014 | Urban Policy and Planning | 3 |
| FIW 4624 | Marine Ecology | 3 | UAP 3224 | Policy Implementation | 3 |
| FREC 2514 | Wildland Fire: Ecology and Management | 3 | | | |
| FREC/HORT 3354 | Trees in the Built Environment | 3 | | | |
| FREC 3364 | Environmental Silviculture | 3 | | | |
| FREC 3714 | Forest Harvesting | 3 | | | |

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| UAP/IS/PSCI 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 | 3 |
| Leadership & Sustainability Restricted Electives (only 3 credits may be below 2000-level) | | |
| ALCE 3014 | Leadership Effectiveness for Professionals in Agricultural Organizations | 3 |
| FREC/IS/PSCI 4174 | Climate Change and the International Policy Framework | 3 |
| GEOG/NR 1116 | Seeking Sustainability | 3 |
| GEOG 4444 | Practicing Sustainability | 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 |
| SPIA 2124 | The Art & Science of Negotiation | 3 |
| SPIA 2554 | Collaborative Policy-Making and Planning | 3 |
| SPIA 3554 | Transdisciplinary Problem Solving for Social Issues | 3 |
| UAP 1024 | Leadership, Service, and Public Problem Solving | 3 |
| UAP 3224 | Policy Implementation | 3 |
| UAP 4394 | Community Renewable Energy Systems | 3 |
| Outdoor Recreation & Tourism Management Restricted Electives | | |
| HNFE 2274 | Wilderness First Responder | 3 |
| HTM 2454 | Global Travel & Tourism Management | 3 |
| HTM 2464 | Designing the Service Experience | 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 |

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

Graduation Requirements

Environmental Conservation & Society Notes

1. **Minimum credit hours required for graduation is 120.**
2. An in-major and overall GPA of 2.0 is required for graduation.
3. **In-major GPA Computation:** Includes all courses designated as FIW, FREC, GEOG, NR, and SBIO.
4. 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).
5. **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 Advising Center.
6. **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.

Acceptable Substitutions

- STAT 3604 Statistics for Social Science or STAT 3615 Biological Statistics: STAT 3005 Statistical Methods
- MATH 1025 Elementary Calculus: MATH 1225 Calculus of a Single Variable

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."