

# GREEN LEAF PROGRAMS AND COURSES

Website: [sustainabilitystudies.gmu.edu](http://sustainabilitystudies.gmu.edu)

## Green Leaf Programs and Courses

A "Green Leaf" course or academic program focuses on learning about sustainability, i.e., meeting our present needs without compromising the ability of future generations to meet their own needs.

See the Sustainability Studies website (<http://sustainabilitystudies.gmu.edu/greenleaf>) for more information.

## Programs

Green Leaf academic programs focus on sustainability, usually including a required set of Green Leaf courses in order to cover the social, economic and environmental dimensions of sustainability. Each is a vital contributor to Mason's sustainability across the curriculum.

### Undergraduate Degrees

- Civil and Infrastructure Engineering, BS
- Earth Science, BS
- Environmental and Sustainability Studies, BA (CHSS)
- Environmental Science, BS
- Geology, BA
- Global Affairs, BA
- Health, Fitness, and Recreation Resources, BS: Concentration in Parks and Outdoor Recreation
- Tourism and Events Management, BS
- Integrative Studies, BS: Concentration in Applied Global Conservation (AGCN)

### Undergraduate Minors and Certificates

- Atmospheric Science Minor
- Conservation Studies Minor (CHSS)
- Earth Science Minor
- Environmental Policy Minor<sup>1</sup>
- Geology Minor
- Global Affairs Minor<sup>1</sup>
- Paleontology Minor
- Sustainable Enterprise Minor
- Sustainability Studies Minor

### Bachelor's/Accelerated Master's Program

- Bachelor's Degree (Green Leaf)/Environmental Science and Policy, Accelerated MS
- Bachelor's Degree (any)/Interdisciplinary Studies, Accelerated MAIS (Energy and Sustainability Concentration)<sup>1</sup>
- Bachelor's Degree (any)/Global Affairs, Accelerated MA<sup>1,2</sup>

### Graduate Degrees

- Climate Dynamics, PhD
- Environmental Science and Policy, MS
- Environmental Science and Public Policy, PhD
- Global Affairs, MA<sup>1</sup>

- Interdisciplinary Studies, MAIS: Concentration in Energy and Sustainability

- <sup>1</sup> Meets Green Leaf criteria when options are selected to ensure coverage of "people, planet and prosperity" across the program's curriculum.
- <sup>2</sup> Meets the Green Leaf criteria when the Master's degree is paired with a Green Leaf Bachelor's degree.

## Courses

The Green Leaf designation recognizes offerings that contribute significantly to students' understanding and practice of sustainability. These offerings extend beyond environmental management, natural resources protection and conservation studies alone as Mason's Green Leaf curricula comprise both sustainability-*focused* and sustainability-*related* courses.

### Sustainability- Focused Courses

Sustainability-*focused* courses provide valuable grounding in the concepts and principles of sustainability. These courses educate students about how different dimensions of sustainability relate to and support each other in theory and practice. In addition, these courses help equip students with the skills to weave together disparate components of sustainability in addressing complex issues.

ANTH 370	Environment and Culture	3
AVT 385	EcoArt (Mason Core)	3
BIOL 379	RS: Ecological Sustainability (Mason Core)	4
CEIE 401	Sustainable Land Development	3
CEIE 501	Sustainable Development	3
CEIE 540	Water Supply and Distribution	3
CEIE 892	Special Topics in Environmental and Water Resource Systems Engineering	3
COMM 660	Climate Change and Sustainability Communication Campaigns	3
CONF 702	Peace Studies	3
CONS 410	Human Dimensions in Conservation (Mason Core)	3
CONS 665	Conservation Conflict Resolution	3
ECON 105	Environmental Economics for the Citizen (Mason Core)	3
ECON 335	Environmental Economics	3
EVPP 322	Business and Sustainability	3
EVPP 338	Economics of Environmental Policy	3
EVPP 355	Ecological Engineering and Ecosystem Restoration	4
EVPP 361	Introduction to Environmental Policy	3
EVPP 362	Intermediate Environmental Policy	3
EVPP 378	RS: Ecological Sustainability (Mason Core)	4
EVPP 421	Marine Conservation	3
EVPP 432	Energy Policy	3
EVPP 475	Global Biodiversity Governance	3

EVPP 480	Sustainability in Action (Mason Core)	4	BUS 200	Global Environment of Business (Mason Core)	3
EVPP 521	Marine Conservation	3	CEIE 100	Environmental Engineering around the World (Mason Core)	3
EVPP 525	Economics of Human/Environment Interactions	3	CEIE 355	Environmental Engineering and Science	3
EVPP 533	Energy Policy	3	CEIE 450	Environmental Engineering Systems	3
EVPP 575	Global Biodiversity Governance	3	CEIE 690	Topics in Civil Engineering	3
EVPP 608	Introduction to Environmental Social Science	3	CHEM 155	Introduction to Environmental Chemistry I (Mason Core)	4
EVPP 620	Development of U.S. Environmental Policies	3	CHEM 156	Introduction to Environmental Chemistry II (Mason Core)	4
EVPP 622	Management of Wild Living Resources	3	CHEM 458	Chemical Oceanography	3
EVPP 626	Environment and Development in Asia	3	CLIM 101	Global Warming: Weather, Climate, and Society (Mason Core)	3
EVPP 627	Environmental Policy in Latin America	3	CLIM 102	Introduction to Global Climate Change Science (Mason Core)	4
EVPP 628	Environment and Development in Africa	3	CLIM 111	Introduction to the Fundamentals of Atmospheric Science (Mason Core)	3
EVPP 635	Environment and Society	3	CLIM 112	Introduction to the Fundamentals of Atmospheric Science Lab (Mason Core)	1
EVPP 642	Environmental Policy	3	CLIM 314	Severe and Extreme Weather	3
GEOL 321	Geology of Energy Resources	3	CLIM 319	Air Pollution	3
GEOL 405	Advanced Seminar in Earth Resources	3	CLIM 412	Physical Oceanography	3
GEOL 420	Earth Science and Policy (Mason Core)	3	COMM 399	Special Topics in Communication	1-3
GGG 307	Sustainable Development	3	COMM 670	Social Marketing	3
GGG 525	Economics of Human/Environment Interactions	3	COMM 690	Special Topics in Communication	3
GOVT 361	Introduction to Environmental Policy	3	CONF 651	Collaborative Community Action Participatory Governance	3
INTS 210	Sustainable World	4	CONF 682	Principles of Environmental Conflict Resolution	3
INTS 292	Leadership for Sustainability	1	CONF 683	Environmental Conflict Resolution: Situation Assessment, Process Design and Best Practices	3
INTS 318	Exploring Virginia's Watersheds	4	CONS 401	Conservation Theory	3
INTS 334	Environmental Justice	4	CONS 402	Applied Conservation	4
INTS 370	Sustainable Food Systems	6	CONS 403	Ecology and Conservation Theory	3
INTS 402	Plants and People - Sustenance, Ceremony, and Sustainability	6	CONS 404	Biodiversity Monitoring	4
ITRN 760	International Environmental Politics	3	CONS 411	Science Communication for Conservation	3
PRLS 250	Wilderness Travel and Sustainability	2	CONS 490	RS: Integrated Conservation Strategies (Mason Core)	3
PRLS 300	People with Nature	3	CONS 491	RS: Conservation Management Planning (Mason Core)	4
PRLS 402	Human Behavior in Natural Environments	3	EDCI 573	Teaching Science in the Secondary School	3
PRLS 531	Natural Resources Recreation Planning	3	EVPP 110	The Ecosphere: An Introduction to Environmental Science I (Mason Core)	4
PUAD 642	Environmental Policy	3	EVPP 111	The Ecosphere: An Introduction to Environmental Science II (Mason Core)	4
SOCI 320	Social Structure and Globalization (Mason Core)	3	EVPP 201	Environment and You: Issues for the Twenty-First Century (Mason Core)	3
TOUR 340	Sustainable Tourism	3	EVPP 336	Human Dimensions of the Environment	3
TOUR 420	Tourism Planning/Policy	3	EVPP 337	Environmental Policy Making in Developing Countries	3
TOUR 540	Sustainable Tourism Management	3	GCH 560	Environmental Health	3
			GEOL 101	Introductory Geology I (Mason Core)	4

### Sustainability- Related Courses

Sustainability-related courses help build knowledge about a component of sustainability or introduce students to sustainability concepts during part of the course. They may complement sustainability-focused courses by providing students with in-depth knowledge of a particular aspect or dimension of sustainability (such as the natural environment) or by providing a focus area (such as renewable energy) for a student's sustainability studies, or they may broaden students' understanding of sustainability from within different disciplines.

ANTH 580	Environmental Anthropology	3
BIOL 140	Plants and People (Mason Core)	3

GEOL 102	Introductory Geology II (Mason Core)	4
GEOL 134	Evolution and Extinction (Mason Core)	3
GEOL 303	Field Mapping Techniques	3
GEOL 305	Environmental Geology	3
GEOL 306	Soil Science	3
GEOL 313	Hydrogeology	3
GEOL 320	Geology of Earth Resources	3
GEOL 332	Paleoclimatology	3
GEOL 363	Coastal Morphology and Processes	4
GEOL 458	Chemical Oceanography	3
GGG 102	Physical Geography (Mason Core)	3
GGG 103	Human Geography (Mason Core)	3
GGG 121	Dynamic Atmosphere and Hydrosphere (Mason Core)	4
GGG 122	Dynamic Geosphere and Ecosphere	4
GGG 302	Global Environmental Hazards	3
GGG 303	Geography of Resource Conservation (Mason Core)	3
GGG 304	Population Geography (Mason Core)	3
GGG 312	Physical Climatology	3
GGG 314	Severe and Extreme Weather	3
GGG 319	Air Pollution	3
GGG 322	Issues in Global Change	3
GGG 455	Environmental Impact Assessment	3
HIST 615	Problems in American History	1-6
HNRT 228	Scientific Thought and Processes II (Mason Core)	4
INTS 102	Global Networks and Communities	6
INTS 103	Human Creativity: Science and Art	6
INTS 211	Introduction to Conservation Studies	3-6
INTS 311	The Mysteries of Migration: Consequences for Conservation	6
INTS 338	Animal Rights and Humane Education	3
INTS 371	Food Systems and Policy	3
INTS 401	Conservation Biology	6
INTS 403	Conservation Behavior	6
INTS 470	Professional Pathways in Sustainable Food Systems	1
NUTR 652	American Agriculture in the 20th Century	3
PHIL 243	Global Environmental Ethics (Mason Core)	3
PHIL 343	Topics in Environmental Philosophy (Mason Core)	3
PHYS 112	Introduction to the Fundamentals of Atmospheric Science Lab (Mason Core)	1
PHYS 331	Fundamentals of Renewable Energy	3
PHYS 385	Materials Science with Applications to Renewable Energy	3
PRLS 501	Introduction to Natural Resources Law	3
USST 301	Urban Growth in a Shrinking World	3