

# 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

- Atmospheric Sciences, BS (<http://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/atmospheric-sciences-bs/>)
- Civil and Infrastructure Engineering, BS (<http://catalog.gmu.edu/colleges-schools/engineering-computing/engineering/civil-environmental-infrastructure/civil-infrastructure-engineering-bs/>)
- Geology, BS (<http://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/geology-bs/>)
- Environmental and Sustainability Studies, BA (CHSS) (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/integrative-studies/environmental-sustainability-studies-ba-chss/>)
- Environmental Science, BS (<http://catalog.gmu.edu/colleges-schools/science/environmental-policy/environmental-science-bs/>)
- Geology, BA (<http://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/geology-ba/>)
- Global Affairs, BA (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/global-affairs/global-affairs-ba/>)
- Tourism and Events Management, BS (<http://catalog.gmu.edu/colleges-schools/education-human-development/school-sport-recreation-tourism-management/tourism-and-events-management-bs/>)
- Integrative Studies, BS: Concentration in Applied Global Conservation (AGCN) (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/integrative-studies/integrative-studies-bs/#requirementstext>)

### Undergraduate Minors and Certificates

- Atmospheric Science Minor (<http://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/atmospheric-science-minor/>)
- Conservation Studies Minor (CHSS) (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/integrative-studies/conservation-studies-minor-chss/>)
- Earth Science Minor (<http://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/earth-science-minor/>)
- Environmental Policy Minor (<http://catalog.gmu.edu/colleges-schools/science/environmental-policy/environmental-policy-minor/>)<sup>1</sup>

- Geology Minor (<http://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/geology-minor/>)
- Global Affairs Minor (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/global-affairs/global-affairs-minor/>)<sup>1</sup>
- Paleontology Minor (<http://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/paleontology-minor/>)
- Sustainable Enterprise Minor (<http://catalog.gmu.edu/colleges-schools/science/environmental-policy/sustainable-enterprise-minor/>)
- Sustainability Studies Minor (<http://catalog.gmu.edu/colleges-schools/science/environmental-policy/sustainability-studies-minor/>)

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

- Bachelor's Degree (Green Leaf)/Environmental Science and Policy, Accelerated MS (<http://catalog.gmu.edu/colleges-schools/science/environmental-policy/environmental-science-policy-ms/#acceleratedmasterstext>)
- Bachelor's Degree (any)/Interdisciplinary Studies, Accelerated MAIS (Energy and Sustainability Concentration) (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/interdisciplinary-studies/interdisciplinary-studies-mais/#acceleratedmasterstext>)<sup>1</sup>
- Bachelor's Degree (any)/Global Affairs, Accelerated MA (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/global-affairs/global-affairs-ma/#acceleratedmasterstext>)<sup>1,2</sup>

### Graduate Degrees

- Climate Dynamics, PhD (<http://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/climate-dynamics-phd/>)
- Environmental Science and Policy, MS (<http://catalog.gmu.edu/colleges-schools/science/environmental-policy/environmental-science-policy-ms/>)
- Environmental Science and Public Policy, PhD (<http://catalog.gmu.edu/colleges-schools/science/environmental-policy/environmental-science-public-policy-phd/>)
- Global Affairs, MA (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/global-affairs/global-affairs-ma/>)<sup>1</sup>
- Interdisciplinary Studies, MAIS: Concentration in Energy and Sustainability (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/interdisciplinary-studies/interdisciplinary-studies-mais/>)

1

Meets Green Leaf criteria when options are selected to ensure coverage of "people, planet and prosperity" across the program's curriculum.

2

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.

Code	Title	Credits
ANTH 370	Environment and Culture	3
AVT 385	EcoArt (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
BIOL 379	RS: Ecological Sustainability (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	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) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ECON 105	Environmental Economics for the Citizen (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	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) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
EVPP 421	Marine Conservation	3
EVPP 432	Energy Policy	3
EVPP 475	Global Biodiversity Governance	3
EVPP 480	Sustainability in Action (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
EVPP 521	Marine Conservation	3
EVPP 525	Economics of Human/Environment Interactions	3
EVPP 533	Energy Policy	3
EVPP 575	Global Biodiversity Governance	3
EVPP 608	Introduction to Environmental Social Science	3
EVPP 620	Development of U.S. Environmental Policies	3
EVPP 622	Management of Wild Living Resources	3
EVPP 626	Environment and Development in Asia	3
EVPP 627	Environmental Policy in Latin America	3

EVPP 628	Environment and Development in Africa	3
EVPP 635	Environment and Society	3
EVPP 642	Environmental Policy	3
GEOL 321	Geology of Energy Resources	3
GEOL 420	Earth Science and Policy (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GGIS 307	Geographic Approaches for Sustainable Development	3
GOVT 361	Introduction to Environmental Policy	3
INTS 210	Sustainable World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
INTS 292	Leadership for Sustainability	0-1
INTS 334	Environmental Justice (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
INTS 370	Sustainable Food Systems	6
INTS 402	Plants and People - Sustenance, Ceremony, and Sustainability	6
PUAD 642	Environmental Policy	3
SOCI 320	Globalization and Social Change (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
TOUR 340	Sustainable Tourism	3
TOUR 420	Tourism Planning/Policy	3

## 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.

Code	Title	Credits
ANTH 580	Environmental Anthropology	3
BIOL 140	Plants and People (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
BUS 200	Global Environment of Business (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CEIE 100	Environmental Engineering around the World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CEIE 355	Environmental Engineering and Science	3
CEIE 450	Environmental Engineering Systems	3
CEIE 690	Topics in Civil Engineering	3
CHEM 155	Introduction to Environmental Chemistry I (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
CHEM 156	Introduction to Environmental Chemistry II (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
CHEM 458	Chemical Oceanography	3
CLIM 101	Global Warming: Weather, Climate, and Society (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3

CLIM 102	Introduction to Global Climate Change Science (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4	GEOL 303	Field Mapping Techniques	3
CLIM 111	Introduction to the Fundamentals of Atmospheric Science (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	GEOL 305	Environmental Geology	3
CLIM 112	Introduction to the Fundamentals of Atmospheric Science Lab (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	1	GEOL 306	Soil Science	3
CLIM 314	Severe and Extreme Weather	3	GEOL 313	Hydrogeology	3
CLIM 319	Air Pollution	3	GEOL 320	Geology of Earth Resources	3
CLIM 412	Physical Oceanography	3	GEOL 332	Paleoclimatology	3
COMM 399	Special Topics in Communication	1-3	GEOL 363	Coastal Morphology and Processes	4
COMM 670	Social Marketing	3	GEOL 458	Chemical Oceanography	3
COMM 690	Special Topics in Communication	3	GGS 102	Physical Geography (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CONF 651	Collaborative Community Action Participatory Governance	3	GGS 103	Human Geography (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CONF 682	Principles of Environmental Conflict Resolution	3	GGS 121	Dynamic Atmosphere and Hydrosphere (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
CONF 683	Environmental Conflict Resolution: Situation Assessment, Process Design and Best Practices	3	GGS 122	Dynamic Geosphere and Ecosphere	4
CONS 401	Conservation Theory	3	GGS 302	Global Environmental Hazards	3
CONS 402	Applied Conservation	4	GGS 303	Geography of Resource Conservation (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CONS 404	Biodiversity Monitoring	4	GGS 304	Population Geography (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CONS 490	RS: Integrated Conservation Strategies (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	GGS 312	Physical Climatology	3
CONS 491	RS: Conservation Management Planning (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4	GGS 314	Severe and Extreme Weather	3
EVPP 108	Ecosphere - Introduction to Environmental Science I-Lecture (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	HIST 615	Problems in American History	1-6
EVPP 109	Ecosphere- Introduction to Environmental Science I- Lab (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	1	INTS 102	Global Networks and Communities (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	6
EVPP 112	Ecosphere: Introduction to Environmental Science II-Lecture (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	INTS 103	Human Creativity: Science and Art (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	6
EVPP 113	Ecosphere: Introduction to Environmental Science II-Lab (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	1	INTS 211	Introduction to Conservation Studies (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3-6
EVPP 201	Environment and You: Issues for the Twenty-First Century (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	INTS 311	The Mysteries of Migration: Consequences for Conservation (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	6
EVPP 336	Tackling Wicked Problems in Society the Environment	3	INTS 371	Food Systems and Policy (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
EVPP 337	Environmental Policy Making in Developing Countries	3	INTS 401	Conservation Biology (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	6
GCH 560	Environmental Health	3	INTS 403	Conservation Behavior (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	6
GEOL 101	Physical Geology (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	INTS 470	Professional Pathways in Sustainable Food Systems	1
GEOL 102	Historical Geology (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	PHIL 243	Global Environmental Ethics (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GEOL 134	Evolution and Extinction (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	PHIL 343	Topics in Environmental Philosophy (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
			PHYS 111	Introduction to the Fundamentals of Atmospheric Science (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3

PHYS 112	Introduction to the Fundamentals of Atmospheric Science Lab (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	1
PHYS 331	Physics of Renewable Energy	3
PHYS 385	Materials Science with Applications to Renewable Energy	3