

# ENVIRONMENTAL AND SUSTAINABILITY STUDIES, BA (COS)

**Banner Code:** LA-BA-EVSS

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The BA in Environmental and Sustainability Studies is a joint program between the College of Humanities and Social Sciences (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/>) and the College of Science (<http://catalog.gmu.edu/colleges-schools/science/>).

This degree provides students with theoretical and practical knowledge of three aspects of environmental and sustainability studies: people, prosperity, and planet. In addition to required core courses, students develop more in-depth knowledge in their choice of concentration. This degree prepares students for employment and graduate study in fields related to social justice, business and public policy, and environmental protection as they relate to the environment and sustainability.

This is a Green Leaf program (<http://catalog.gmu.edu/student-services/green-leaf-programs-courses/>).

## Admissions & Policies

### Admissions

University-wide admissions policies can be found in the Undergraduate Admissions Policies (<http://catalog.gmu.edu/admissions/undergraduate-policies/>) section of this catalog.

To apply for this program, please complete the George Mason University Admissions Application (<https://www2.gmu.edu/admissions-aid/apply-now/>).

### Policies

Students pursuing this degree must complete a minimum of 60 credits within the major, with a minimum grade of 2.00 in each course.

For policies governing all undergraduate degrees, see AP.5 Undergraduate Policies (<http://catalog.gmu.edu/policies/academic/undergraduate-policies/>).

## Requirements

### Degree Requirements

Total credits: minimum 120

This is a Green Leaf program.

Students should be aware of the specific policies associated with this program, located on the Admissions & Policies (<http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/integrative-studies/environmental-sustainability-studies-ba-chss/#admissionspoliciestext>) tab.

Of the credits required for this degree, 14 credits simultaneously fulfill core requirements for the major and Mason Core requirements, and,

depending on the concentration and electives chosen, up to 9 credits may simultaneously fulfill Mason Core requirements and college BA requirements.

### Core Courses in the Major

Code	Title	Credits
<b>Environmental Science and Society</b>		
EVPP 377	Applied Ecology	3
And completion of one of the following sequences: <sup>1</sup>		11-12
EVPP 108 & EVPP 109 & EVPP 112 & EVPP 113 & EVPP 336	Ecosphere - Introduction to Environmental Science I-Lecture (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) and Ecosphere- Introduction to Environmental Science I- Lab (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) and Ecosphere: Introduction to Environmental Science II-Lecture (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) and Ecosphere: Introduction to Environmental Science II-Lab (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) and Tackling Wicked Problems in Society the Environment	
or		
EVPP 210 & EVPP 301 & EVPP 302	Environmental Biology: Molecules and Cells and Environmental Science: Biological Diversity and Ecosystems and Environmental Science: Biomes and Human Dimensions	
<b>Individual and Group Behavior</b>		
INTS 334	Environmental Justice (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
<b>Business and Public Policy</b>		
Select one course from the following:		3
ECON 100	Economics for the Citizen (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
ECON 103	Contemporary Microeconomic Principles (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
ECON 105	Environmental Economics for the Citizen (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
EVPP 322	Business and Sustainability	3
EVPP 361	Introduction to Environmental Policy <sup>2</sup>	3
or GOVT 361	Introduction to Environmental Policy	
<b>Statistics</b>		
Select one course from the following:		3-4
SOCI 313	Statistics for the Behavioral Sciences (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
BIOL 214	Biostatistics for Biology Majors	

STAT 250	Introductory Statistics I (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
<b>Integration, Analysis, Innovation</b>		
INTS 210	Sustainable World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
EVPP 480	Sustainability in Action (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
Select one course from the following:		3
INTS 390	International Internship (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) (minimum of 3 credits required)	
INTS 398	Experiential Learning (minimum of 3 credits required)	
INTS 498	Experiential Learning (minimum of 3 credits required)	
INTS 490	Internship (minimum of 3 credits required)	
EVPP 395	Undergraduate Research in Environmental Science and Policy (minimum of 3 credits required)	
EVPP 494	Internship (minimum of 3 credits required)	
Total Credits		41-43

<sup>1</sup> EVPP 110 can be used toward EVPP 108/109 and EVPP 111 can be used toward EVPP 112/113.

<sup>2</sup> Satisfies the college BA requirement for social and behavioral science.

## Concentration in the Major

### Available Concentrations

- Concentration in Business and Sustainability (BUSU)
- Concentration in Climate Change and Society (CCSO)
- Concentration in Conservation and Sustainability (CSUS)
- Concentration in Environmental Policy (EVP)
- Concentration in Equity and Environmental Justice (EQEJ)
- Concentration in Sustainable Food and Agriculture (SFG)

### Concentration in Business and Sustainability (BUSU)

The requirements for this concentration, depending on the electives chosen, may satisfy the college BA requirement in philosophy and religious studies (PHIL 243 Global Environmental Ethics (Mason Core) (<http://catalog.gmu.edu/mason-core/>), PHIL 305 Business Ethics).

Students who have already taken and received credit for OSCM 303 Operations Management shall substitute it for MBUS 306 Managing Projects and Operations. Both courses cannot be taken for credit. Students who have taken and received credit for both ACCT 203 Survey of Accounting and FNAN 303 Financial Management shall substitute the combination for MBUS 300 Accounting in a Global Economy. All three courses cannot be taken for credit.

### Core Courses

Code	Title	Credits
<b>Required Courses</b>		
MBUS 300	Accounting in a Global Economy	3
MBUS 306	Managing Projects and Operations	3
MGMT 303	Principles of Management	3

### Additional Course

Select one course (3 credits) from the following:		3
EVPP 434	Food-Energy-Water-Climate Nexus	
INTS 375	Special Topics (when topic is relevant with approval)	
INTS 450	Social Innovation in Action	
INTS 475	Special Topics (when topic is relevant with approval)	
MBUS 304	Entrepreneurship: Starting and Managing a New Enterprise	
MGMT 451	Introduction to Entrepreneurship	
EVPP 490	Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
EVPP 505	Selected Topics in Environmental Science (when topic is relevant with approval)	
Total Credits		12

### Two Courses

Code	Title	Credits
Select two courses (6 credits) from the following:		6
ECON 335	Environmental Economics	
EVPP 338	Economics of Environmental Policy	
EVPP 362	Intermediate Environmental Policy	
GGG 307	Geographic Approaches for Sustainable Development	
INTS 204	Leadership Theory and Practice	
PHIL 243	Global Environmental Ethics (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
PHIL 305	Business Ethics	
Other course work with advisor approval		
Total Credits		6

### Concentration in Climate Change and Society (CCSO)

The requirements for this concentration, depending on the electives chosen, may satisfy the college BA requirement in philosophy and religious studies (PHIL 243 Global Environmental Ethics (Mason Core) (<http://catalog.gmu.edu/mason-core/>), PHIL 343 Topics in Environmental Philosophy (Mason Core) (<http://catalog.gmu.edu/mason-core/>)).

### Required Courses

Code	Title	Credits
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> )	3-4
or GGS 121	Dynamic Atmosphere and Hydrosphere (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
EVPP 432	Energy Policy	3
EVPP 436	Politics of Climate Change Governance	3
Total Credits		9-10

### Three Courses

Code	Title	Credits
Select three courses (9 credits) from the following:		9
ANTH 394	Archaeology of Climate Change	

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> )	
CLIM 314	Severe and Extreme Weather	
CLIM 319	Air Pollution	
EVPP 362	Intermediate Environmental Policy	
EVPP 378	RS: Ecological Sustainability (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
EVPP 381	Nature and Culture in Global Wetlands (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
EVPP 434	Food-Energy-Water-Climate Nexus	
EVPP 442	Urban Ecosystems and Processes	
EVPP 490	Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
EVPP 505	Selected Topics in Environmental Science (when topic is relevant with approval)	
GGs 302	Global Environmental Hazards	
GGs 304	Population Geography (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
GGs 306	Urban Geography	
GGs 309	Introduction to Weather and Climate	
GGs 312	Physical Climatology	
GGs 314	Severe and Extreme Weather	
INTS 375	Special Topics (when topic is relevant with approval)	
INTS 475	Special Topics (when topic is relevant with approval)	
PHIL 243	Global Environmental Ethics (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) <sup>1</sup>	
PHIL 343	Topics in Environmental Philosophy (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) <sup>1</sup>	
Other course work with advisor approval		
<b>Total Credits</b>		<b>9</b>

<sup>1</sup> Satisfies the college BA requirement in philosophy and religious studies.

### Concentration in Conservation and Sustainability (CSUS) Smithsonian-Mason Program

Students complete one of the programs offered through the Smithsonian-Mason School of Conservation in cooperation with the Smithsonian Conservation Biology Institute.

#### Conservation, Biodiversity and Society Option (16 credits)

Code	Title	Credits
CONS 320	Conservation in Practice	3
CONS 401	Conservation Theory	3
CONS 402	Applied Conservation	4
CONS 410	Human Dimensions in Conservation (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
<b>Total Credits</b>		<b>16</b>

#### Wildlife, Ecology, and Conservation Option (16 credits)

Offered only in Fall semesters, students complete four required courses:

Code	Title	Credits
CONS 400	Conservation Seminar	2
CONS 404	Biodiversity Monitoring	4
CONS 405	Landscape and Macrosystems Ecology	4
CONS 496	Research in Conservation (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	6
<b>Total Credits</b>		<b>16</b>

#### Endangered Species and Conservation Option (16 credits)

Offered only in Spring semesters, students complete four required courses:

Code	Title	Credits
CONS 400	Conservation Seminar	2
CONS 406	Small Population Management	4
CONS 491	RS: Conservation Management Planning (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	4
CONS 496	Research in Conservation (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	6
<b>Total Credits</b>		<b>16</b>

#### Three Credits

Code	Title	Credits
Select a minimum of three credits from the following:		3
BIOL 332	Insect Biology (when topic is relevant with approval)	
BIOL 472	Introductory Animal Behavior	
EVPP 337	Environmental Policy Making in Developing Countries	
EVPP/BIOL 350	Freshwater Ecosystems	
EVPP 355	Ecological Engineering and Ecosystem Restoration	
EVPP 381	Nature and Culture in Global Wetlands (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
EVPP 401	Integrated Environmental Assessment	
EVPP 408	Mushrooms, Molds and Society	
EVPP 419	Marine Mammal Biology and Conservation	
EVPP 421	Marine Conservation	
EVPP 423	Beekeeping and Sustainability	
EVPP/BIOL 427	Conservation Medicine	
EVPP 430	Fundamentals of Environmental Geographic Information Systems	
EVPP 432	Energy Policy	
EVPP 434	Food-Energy-Water-Climate Nexus	
EVPP 436	Politics of Climate Change Governance	
EVPP/BIOL 437	Ornithology	

EVPP/BIOL 438	Mammalogy
EVPP/BIOL 439	Herpetology
EVPP/BIOL 449	Marine Ecology
EVPP 451	Fungi and Ecosystems
EVPP 460	Infectious Diseases of Wildlife
EVPP 475	Global Biodiversity Governance
GG5 303	Geography of Resource Conservation (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
GG5 307	Geographic Approaches for Sustainable Development
GG5 321/BIOL 374	Biogeography
INTS 211	Introduction to Conservation Studies (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
INTS 301	Science in the News (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
INTS 304	Social Movements and Community Activism (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
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> )
INTS 331	The Nonprofit Sector (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
INTS 370	Sustainable Food Systems
INTS 371	Food Systems and Policy (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
INTS 401	Conservation Biology (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
INTS 403	Conservation Behavior (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
INTS 375	Special Topics (when topic is relevant with approval)
INTS 475	Special Topics (when topic is relevant with approval)
EVPP 490	Special Topics in Environmental Science and Policy (when topic is relevant with approval)
EVPP 505	Selected Topics in Environmental Science (when topic is relevant with approval)
Other course work with advisor approval	
Total Credits	3

**Concentration in Environmental Policy (EVP)**

The requirements for this concentration satisfy the Mason Core requirement in social and behavioral science (ECON 104 Contemporary Macroeconomic Principles (Mason Core) (<http://catalog.gmu.edu/mason-core/>)) and, depending on the elective chosen, may fulfill the college BA requirement in non-Western culture (ECON 362 African Economic Development (Mason Core) (<http://catalog.gmu.edu/mason-core/>)).

**Required Courses**

Completion of these courses will satisfy the Mason Core social and behavioral science requirement.

Code	Title	Credits
EVPP 338	Economics of Environmental Policy	3
EVPP 362	Intermediate Environmental Policy	3
or GOVT 362	Intermediate Environmental Policy	
GOVT 351	Administration in the Political System	3
Total Credits		9

**Nine Credits**

Code	Title	Credits
Select a minimum of nine credits from the following:		
ANTH 370	Environment and Culture	
COMM 412	Politics and the Mass Media	
CONF 340	Global Conflict Analysis and Resolution (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
ECON 103	Contemporary Microeconomic Principles (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) (if not used to meet the Business and Public Policy core requirement)	
ECON 104	Contemporary Macroeconomic Principles (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
ECON 306	Intermediate Microeconomics	
ECON 311	Intermediate Macroeconomics	
ECON 330	Public Finance	
ECON 345	Introduction to Econometrics	
ECON 360	Economics of Developing Areas (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
ECON 412	Game Theory and Economics of Institutions	
EVPP 337	Environmental Policy Making in Developing Countries	
EVPP 396	Directed Topic in Environmental Science and Policy	
EVPP 401	Integrated Environmental Assessment	
EVPP 432	Energy Policy	
GEOL 420	Earth Science and Policy (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
GG5 305	Economic Geography	
GG5 307	Geographic Approaches for Sustainable Development	
GOVT 307	Legislative Behavior	
GOVT 343	International Political Economy	
GOVT 357	Urban Planning	
GOVT 364	Public Policy Making	
GOVT 452	Administrative Law and Procedures	
GOVT 464	Issues in Public Policy and Administration	
INTS 331	The Nonprofit Sector (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	

INTS 371	Food Systems and Policy (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
EVPP 490	Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
EVPP 505	Selected Topics in Environmental Science (when topic is relevant with approval)	
INTS 375	Special Topics (when topic is relevant with approval)	
INTS 475	Special Topics (when topic is relevant with approval)	
Other course work with advisor approval		
Total Credits		9

**Concentration in Equity and Environmental Justice (EQEJ) Required Courses**

Code	Title	Credits
EVPP 362	Intermediate Environmental Policy	3
EVPP 436	Politics of Climate Change Governance	3
INTS 336	Poverty, Wealth and Inequality in the US (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
INTS 337	Social Justice Consciousness and Action	3
Total Credits		12

**Six Credits**

Code	Title	Credits
Select a minimum of six credits from the following: 6		
ANTH 370	Environment and Culture	
CONF 394	Human Rights and Inequality	
EVPP 434	Food-Energy-Water-Climate Nexus	
GGG 304	Population Geography (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
GGG 307	Geographic Approaches for Sustainable Development	
GOVT 445	Human Rights	
INTS 304	Social Movements and Community Activism (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
INTS 331	The Nonprofit Sector (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
INTS 362	Social Justice and Human Rights (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
INTS 402	Plants and People - Sustenance, Ceremony, and Sustainability	
INTS 450	Social Innovation in Action	
SOCI 320	Globalization and Social Change (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
SOCI 355	Social Inequality (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
INTS 375	Special Topics (when topic is relevant with approval)	
INTS 475	Special Topics (when topic is relevant with approval)	

EVPP 490	Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
EVPP 505	Selected Topics in Environmental Science (when topic is relevant with approval)	
Other course work with advisor approval		
Total Credits		6

**Concentration in Sustainable Food and Agriculture (SFG) Required Courses**

Code	Title	Credits
INTS 370	Sustainable Food Systems	6
INTS 371	Food Systems and Policy (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
Total Credits		10

**Eight Credits**

Code	Title	Credits
Select a minimum of eight credits from the following: 8		
ANTH 366	Food and Human Evolution	
ANTH 376	Food and Culture	
BIOL 344	Plant Diversity and Evolution	
BIOL 345	Plant Ecology	
EVPP 381	Nature and Culture in Global Wetlands (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
EVPP 423	Beekeeping and Sustainability	
EVPP 434	Food-Energy-Water-Climate Nexus	
EVPP 436	Politics of Climate Change Governance	
GGG 303	Geography of Resource Conservation (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
INTS 331	The Nonprofit Sector (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
INTS 402	Plants and People - Sustenance, Ceremony, and Sustainability	
NUTR 295	Introduction to Nutrition (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
NUTR 318	Global Nutrition and Food Security	
NUTR 383	Taste and Place	
NUTR 408	Food Security	
NUTR 421	Community Nutrition	
NUTR 435	Urban Agriculture	
INTS 375	Special Topics (when topic is relevant with approval)	
INTS 475	Special Topics (when topic is relevant with approval)	
EVPP 490	Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
EVPP 505	Selected Topics in Environmental Science (when topic is relevant with approval)	

Other course work with advisor approval

Total Credits 8

## Writing-Intensive Requirement

The university requires all students to complete at least one course designated as "writing intensive" in their major at the 300 level or above. Students majoring in environmental and sustainability studies should consult an advisor to learn how to fulfill this requirement.

## Upper Level Requirement

Students seeking a bachelor's degree must apply at least 45 credits of upper-level courses (numbered 300 or above) toward graduation requirements.

## Additional Electives

Any remaining credits may be completed with elective courses to bring the degree total to 120.

## Mason Core

Some Mason Core (<http://catalog.gmu.edu/mason-core/>) requirements may already be fulfilled by the major requirements listed above. Students are strongly encouraged to consult their advisors to ensure they fulfill all remaining Mason Core (<http://catalog.gmu.edu/mason-core/>) requirements.

Students who have completed the following credentials are eligible for a waiver of the Foundation and Exploration (lower level) requirement categories. The Integration category (upper level) is not waived under this policy. See Admissions (<http://catalog.gmu.edu/admissions/undergraduate-policies/#transfertext>) for more information.

- VCCS Uniform Certificate of General Studies
- VCCS or Richard Bland Associate of Science (A.S.), Associate of Arts (A.A.), Associate of Arts and Sciences (A.A.&S.), or Associate of Fine Arts (A.F.A.)

Code	Title	Credits
<b>Foundation Requirements</b>		
	Written Communication (ENGH 101) ( <a href="http://catalog.gmu.edu/mason-core/#written">http://catalog.gmu.edu/mason-core/#written</a> )	3
	Oral Communication ( <a href="http://catalog.gmu.edu/mason-core/#oral">http://catalog.gmu.edu/mason-core/#oral</a> )	3
	Quantitative Reasoning ( <a href="http://catalog.gmu.edu/mason-core/#quantitative">http://catalog.gmu.edu/mason-core/#quantitative</a> )	3
	Information Technology and Computing ( <a href="http://catalog.gmu.edu/mason-core/#information-technology">http://catalog.gmu.edu/mason-core/#information-technology</a> )	3
<b>Exploration Requirements</b>		
	Arts ( <a href="http://catalog.gmu.edu/mason-core/#arts">http://catalog.gmu.edu/mason-core/#arts</a> )	3
	Global History ( <a href="http://catalog.gmu.edu/mason-core/#global-history">http://catalog.gmu.edu/mason-core/#global-history</a> )	3
	Global Understanding ( <a href="http://catalog.gmu.edu/mason-core/#global">http://catalog.gmu.edu/mason-core/#global</a> )	3
	Literature ( <a href="http://catalog.gmu.edu/mason-core/#literature">http://catalog.gmu.edu/mason-core/#literature</a> )	3
	Natural Science ( <a href="http://catalog.gmu.edu/mason-core/#natural-science">http://catalog.gmu.edu/mason-core/#natural-science</a> )	7
	Social and Behavioral Sciences ( <a href="http://catalog.gmu.edu/mason-core/#social-behavioral-science">http://catalog.gmu.edu/mason-core/#social-behavioral-science</a> )	3
<b>Integration Requirements</b>		

Written Communications (ENGH 302) ( <a href="http://catalog.gmu.edu/mason-core/#written">http://catalog.gmu.edu/mason-core/#written</a> )	3
Writing-Intensive ( <a href="http://catalog.gmu.edu/mason-core/#wi">http://catalog.gmu.edu/mason-core/#wi</a> ) <sup>1</sup>	3
Synthesis/Capstone ( <a href="http://catalog.gmu.edu/mason-core/#synthesis-capstone">http://catalog.gmu.edu/mason-core/#synthesis-capstone</a> ) <sup>2</sup>	3
<b>Total Credits</b>	<b>40</b>

1

Most programs include the writing-intensive course designated for the major as part of the major requirements; this course is therefore not counted towards the total required for Mason Core.

2

Minimum 3 credits required.

## College Level Requirements for the BA degree

In addition to the Mason Core (<http://catalog.gmu.edu/mason-core/>) program, students pursuing a BA degree must complete the coursework below. Except where expressly prohibited, a course used to fulfill a college level requirement may also be used simultaneously to satisfy other requirements (Mason Core (<http://catalog.gmu.edu/mason-core/>) requirements or requirements for the major).

### Philosophy or Religious Studies

Code	Title	Credits
Select 3 credits from the following:		
	PHIL ( <a href="http://catalog.gmu.edu/courses/phil/">http://catalog.gmu.edu/courses/phil/</a> ) <sup>1</sup>	3
	RELI ( <a href="http://catalog.gmu.edu/courses/reli/">http://catalog.gmu.edu/courses/reli/</a> )	

1

Note that the following courses may not be used to fulfill this requirement:

- PHIL 323 Classical Western Political Theory
- PHIL 324 Modern Western Political Theory
- PHIL 327 Contemporary Western Political Theory
- PHIL 393 Humanities College to Career
- PHIL 460 Senior Seminar in Philosophy, Politics, and Economics

Additionally, PHIL 253, RELI 235, RELI 333, and RELI 339 cannot be used to fulfill both the philosophy/religious studies requirement and the Mason Core literature (<http://catalog.gmu.edu/mason-core/#literature>) requirement.

### Social and Behavioral Sciences

Code	Title	Credits
Select 3 credits of social and behavioral sciences from the following (additional to the Mason Core social and behavioral sciences requirement) <sup>1</sup>		
	ANTH ( <a href="http://catalog.gmu.edu/courses/anth/">http://catalog.gmu.edu/courses/anth/</a> )	
	CRIM ( <a href="http://catalog.gmu.edu/courses/crim/">http://catalog.gmu.edu/courses/crim/</a> )	
	ECON ( <a href="http://catalog.gmu.edu/courses/econ/">http://catalog.gmu.edu/courses/econ/</a> )	
	GOVT ( <a href="http://catalog.gmu.edu/courses/govt/">http://catalog.gmu.edu/courses/govt/</a> )	
	HIST ( <a href="http://catalog.gmu.edu/courses/hist/">http://catalog.gmu.edu/courses/hist/</a> ) <sup>2</sup>	
	LING ( <a href="http://catalog.gmu.edu/courses/ling/">http://catalog.gmu.edu/courses/ling/</a> )	
	PSYC ( <a href="http://catalog.gmu.edu/courses/psyc/">http://catalog.gmu.edu/courses/psyc/</a> )	
	SOCI ( <a href="http://catalog.gmu.edu/courses/soci/">http://catalog.gmu.edu/courses/soci/</a> )	
Or choose from the following GGS courses:		
GG5 101	Major World Regions (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	

GGG 103	Human Geography (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
GGG 110	Introduction to Geoinformation Technologies
GGG 301	Political Geography (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
GGG 303	Geography of Resource Conservation (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
GGG 304	Population Geography (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )
GGG 305	Economic Geography
GGG 306	Urban Geography
GGG 315	Geography of the United States
GGG 316	Geography of Latin America
GGG 320	Geography of Europe
GGG 325	Geography of North Africa and the Middle East
GGG 326	Geography of Eastern Europe and Russia
GGG 357	Urban Planning
GGG 380	Geography of Virginia

1

The two courses used to fulfill the combined college and Mason Core (<http://catalog.gmu.edu/mason-core/>) requirements must be from different disciplines in the social and behavioral sciences.

2

HIST 100 and HIST 125 may not be used to fulfill this requirement.

### Foreign Language

Code	Title	Credits
Intermediate-level proficiency in one foreign language, fulfilled by: <sup>1</sup>		
Completing 3 credits in a foreign language numbered 202 (or higher level courses taught in the language) ( <a href="http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/modern-classical-languages/">http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/modern-classical-languages/</a> )		
Or achieving a satisfactory score on an approved proficiency test		
Or completing the following ASL three course sequence:		
EDSE 115	American Sign Language (ASL) I	
EDSE 116	American Sign Language (ASL) II	
EDSE 219	American Sign Language (ASL) III	

1

Students who are already proficient in a second language may be eligible for a waiver of this requirement. Additional information on waivers can be found at the Office of Undergraduate Academic Affairs (<http://chssundergrad.gmu.edu/>).

### Non-Western Culture

Select 3 credits of an approved course in the study of a non-Western culture (additional to the Mason Core requirement in global understanding)

Code	Title	Credits
Select 3 credits (additional to Mason Core Global Understanding requirement) <sup>1</sup>		

ANTH 114	Introduction to Cultural Anthropology (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ANTH 300	Civilizations	3
ANTH 302	Peoples and Cultures of Latin America (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ANTH 307	Ancient Mesoamerica (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ANTH 308	Peoples and Cultures of the Middle East (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ANTH 309	Peoples and Cultures of India (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ANTH 313	Myth, Magic, and Mind (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ANTH 314	Zombies	3
ANTH 317	East Asian Cultures	3
ANTH 330	Peoples and Cultures of Selected Regions: Non-Western	3
ANTH 332	Cross-Cultural Perspectives on Globalization (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ANTH 381	Medical Anthropology	3
ANTH 396	Issues in Anthropology: Social Sciences (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARAB 360	Topics in Arabic Cultural Production	3
ARAB 420	Survey of Arabic Literature	3
ARAB 440	Topics in Arabic Religious Thought and Texts (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 203	Survey of Asian Art (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 204	Survey of Latin American Art (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 206	Survey of African Art (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 318	Art and Archaeology of Ancient Egypt	3
ARTH 319	Art and Archaeology of the Ancient Near East (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 320	Art of the Islamic World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 382	Arts of India (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 383	Arts of Southeast Asia (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 384	Arts of China (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 385	Arts of Japan (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ARTH 482	RS: Advanced Studies in Asian Art	3

CHIN 318	Introduction to Classical Chinese (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	HIST 327	The Soviet Union and Russia Since World War II	3
CHIN 320	Contemporary Chinese Film	3	HIST 328	Rise of Russia (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CHIN 325	Major Chinese Writers (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	HIST 329	Modern Russia and the Soviet Union (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CHIN 470	Special Topics in Chinese Studies	3	HIST 353	History of Traditional China	3
DANC 118	Global Dance Perspectives I (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	HIST 354	Modern China (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ECON 361	Economic Development of Latin America (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	HIST 356	Modern Japan (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
ECON 362	African Economic Development (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	HIST 357	Postwar Japan (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
FREN 454	Topics in Caribbean Francophone Literature and Culture	3	HIST 358	Post-1949 China (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GGG 101	Major World Regions (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	HIST 360	History of South Africa (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GGG 316	Geography of Latin America	3	HIST 364	Revolution and Radical Politics in Latin America (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GGG 317	Geography of China (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	HIST 365	Conquest and Colonization in Latin America (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GGG 325	Geography of North Africa and the Middle East	3	HIST 366	Comparative Slavery	3
GGG 399	Select Topics in GGS	3	HIST 387	Topics in Global History (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3-6
GOVT 332	Government and Politics of the Middle East and North Africa	3	HIST 461	Arab-Israeli Conflict	3
GOVT 333	Government and Politics of Asia	3	HIST 462	Women in Islamic Society (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GOVT 338	Government and Politics of Russia	3	HIST 465	The Middle East in the 20th Century	3
GOVT 340	Central Asian Politics	3	JAPA 310	Japanese Culture in a Global World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GOVT 341	Chinese Foreign Policy	3	JAPA 340	Topics in Japanese Literature (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
GOVT 345	Islam and Politics	3	JAPA 380	Japan in Motion	3
GOVT 433	Political Economy of East Asia	3	KORE 300	Korean Culture and Society	3
HIST 251	Survey of East Asian History (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	KORE 320	Korean Popular Culture in a Global World	3
HIST 252	Survey of East Asian History (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	KORE 385	Introduction to Korean Linguistics	3
HIST 261	Survey of African History (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	MUSI 103	Musics of the World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
HIST 262	Survey of African History (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	RELI 211	Introduction to Religions of the "West" (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
HIST 271	Survey of Latin American History (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	RELI 212	Introduction to Religions of Asia (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
HIST 272	Survey of Latin American History (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	RELI 312	Islam	3
HIST 281	Survey of Middle Eastern Civilization (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	RELI 313	Hinduism (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
HIST 282	Survey of Middle Eastern Civilization (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3	RELI 314	Chinese Philosophies and Religious Traditions	3
HIST 326	Stalinism	3	RELI 315	Buddhism (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3



RELI 317	Daoism	3
RELI 318	Korean Philosophy and Religions	3
RELI 338	Qur'an and Hadith	3
RELI 342	Comparative Study of Mysticism	3
RELI 344	Muhammad: Life and Legacy	3
RELI 358	Islamic Thought (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
RELI 367	Islamic Law, Society, and Ethics	3
RELI 368	Islam, Democracy, and Human Rights	3
RELI 490	Comparative Study of Religions (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
RUSS 353	Russian Civilization (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
RUSS 354	Contemporary Post-Soviet Life (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
WMST 407	Transnational Sexualities	3

1

A course used to fulfill the Mason Core global understanding (<http://catalog.gmu.edu/mason-core/#global>) requirement may not be simultaneously used to satisfy this college-level requirement. A course used to fulfill this requirement may be used simultaneously to fulfill any other requirements (Mason Core requirements, college-level requirements, or requirements for the major). Additional information on waivers can be found at the Office of Undergraduate Academic Affairs (<http://chssundergrad.gmu.edu/>).

- **Innovation:** contribute to the global movement towards realizing a more healthy, just and sustainable society;
- **Concentrated Expertise:** create in-depth knowledge in one of six concentration areas related to environmental and sustainability studies.

## Program Outcomes

### Program Outcomes

- **Individual and Group Behavior (people):** critically assess the part individuals and communities have played in creating environmental challenges, the diversity of ethical and social justice issues raised by human interactions with the environment, and understand how individuals and communities can use these ethical insights as a foundation to devise and implement solutions to address these problems;
- **Business and Public Policy (prosperity):** analytically consider how political institutions, markets and businesses have interacted with the environment, and the pivotal role they have in developing solutions that address environmental concerns;
- **Environmental Science and Society (planet):** identify the components and interactions that make up the ecosystem, and how this system responds to natural and human interactions;
- **Integration and Analysis:** integrate and apply the knowledge of the three aspects of environmental and sustainability studies to practical applications within the community and to critically assess and devise plans that address the social factors related to natural resource use;
- **Written and Oral Communication:** communicate effectively in a written format and apply appropriate rhetorical standards (e.g., audience adaptation, language, argument, organization, evidence, etc.). Students will also communicate effectively in an oral format, applying appropriate rhetorical standards (e.g., audience adaptation, language, argument, organization, evidence, etc.).