

Program Change Request

Date Submitted: 01/10/19 4:56 pm

Viewing: **LA-BA-EVSS : Environmental and Sustainability Studies, BA**

Last approved: 03/15/18 12:58 pm

Last edit: 02/08/19 1:45 pm

Changes proposed by: jbowen4

Catalog Pages [Environmental and Sustainability Studies, BA \(COS\)](#)
 Using this Program [Environmental and Sustainability Studies, BA \(CHSS\)](#)

In Workflow

1. **ESP Chair**
2. **LA Associate Dean**
3. **SC Curriculum Committee**
4. SC Associate Dean
5. SC CAT Editor
6. LA CAT Editor
7. Assoc Provost- Undergraduate
8. Registrar-Programs

Approval Path

1. 01/17/19 11:19 am
A. Alonso Aguirre (aaguirr3):
Approved for ESP Chair
2. 02/08/19 1:45 pm
Jill Bowen (jbowen4):
Approved for LA Associate Dean

History

1. Dec 5, 2017 by clmig-jwehrheim
2. Dec 5, 2017 by clmig-jwehrheim
3. Mar 8, 2018 by Jill Bowen (jbowen4)
4. Mar 12, 2018 by Tory Sarro (vsarro)
5. Mar 12, 2018 by Rebekah Zacharias (rzachari)
6. Mar 15, 2018 by Rebekah Zacharias (rzachari)

Are you completing this form on someone else's behalf?

No

Effective Catalog: 2019-2020

Program Level: Undergraduate

Program Type: Bachelor's

Degree Type: Bachelor of Arts

Title: Environmental and Sustainability Studies, BA

Banner Title: **Envrnmntl & Sustainab Stdes**

Registrar/OAPI Use Only – SCHEV Status: Approved

Registrar's Office Use Only – Program Start Term

Registrar/OAPI Use Only – SCHEV Letter

Concentration(s):

	Associated Concentrations	Registrar's Office Use Only: Concentration Code
1	Business and Sustainability	BUSU
2	Climate Change and Society	CCSO
3	Conservation and Sustainability	CSUS
4	Environmental Policy and Economics	EVPE

	Associated Concentrations	Registrar's Office Use Only: Concentration Code
5	Equity and Environmental Justice	EQEJ
6	Sustainable Food and Agriculture	SFG

Registrar/IRR Use Only – Concentration CIP Code

College/School: College of Humanities & Social Sciences

Department / Academic Unit: School of Integrative Studies

Jointly Owned Program? Yes

Participating Colleges

	College
1	College of Science

Participating Departments

	Department
1	Environmental Science & Policy

Justification Additions to reflect new EVPP course offerings. Allow ECON 100 to count for the Business & Public Policy requirement. Allow STAT 250 to count for statistics requirement.

To reflect new EVPP course offerings, students can take EVPP 112/113 or EVPP 111.

Conservation and sustainability concentration - correct number of credits on CONS 496. All options for the Smithsonian-Mason Program should be 16 credits.

Additional Justification:

Total Credits Required: Total credits: minimum 120

Registrar's Office Use Only - Program Code:

LA-BA-EVSS

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

Admissions

University-wide admissions policies can be found in the [Undergraduate Admissions Policies](#) section of this catalog.

To apply for this program, please complete the [George Mason University Admissions Application](#).

Program-Specific Policies:

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](#).

Degree Requirements:

This is a Green Leaf program.

Students should be aware of the specific policies associated with this program, located on the [Admissions & Policies](#) 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

Core requirements may satisfy Mason Core requirements in natural science ([EVPP 110](#) The Ecosphere: An Introduction to Environmental Science I ([Mason Core](#)), [EVPP 111](#) The Ecosphere: An Introduction to Environmental Science II ([Mason Core](#))) and the college BA requirement for social and behavioral science ([GOVT 361](#) Introduction to Environmental Policy).

Code	Course List Title	Credits
Environmental Science and Society		
EVPP 377	Applied Ecology	3
And three courses from one of the following groups:		11-12
EVPP 110	The Ecosphere: An Introduction to Environmental Science I (Mason Core)	
& EVPP 111	and The Ecosphere: An Introduction to Environmental Science II (Mason Core)	
& EVPP 336	and Human Dimensions of the Environment	
EVPP 110	The Ecosphere: An Introduction to Environmental Science I (Mason Core)	
& EVPP 112	and Ecosphere: Introduction to Environmental Science II-Lecture	
& EVPP 113	and Ecosphere: Introduction to Environmental Science II-Lab	
& EVPP 336	and Human Dimensions of the Environment	
EVPP 210	Environmental Biology: Molecules and Cells	
& EVPP 301	and Environmental Science: Biological Diversity and Ecosystems	
& EVPP 302	and Environmental Science: Biomes and Human Dimensions	
Individual and Group Behavior		
INTS 334	Environmental Justice (Mason Core)	4
Business and Public Policy		
ECON 105	Environmental Economics for the Citizen (Mason Core)	3
or ECON 100	Economics for the Citizen (Mason Core)	
EVPP 322	Business and Sustainability	3
EVPP 361	Introduction to Environmental Policy 1	3
or GOVT 361	Introduction to Environmental Policy	
Statistics		
Select one course from the following:		3-4
SOCI 313	Statistics for the Behavioral Sciences (Mason Core)	
BIOL 214	Biostatistics for Biology Majors	
STAT 250	Introductory Statistics I (Mason Core)	
Integration, Analysis, Innovation		
INTS 210	Sustainable World (Mason Core)	4
EVPP 480	Sustainability in Action (Mason Core)	4
Select one from the following:		3
INTS 390	International Internship (minimum of 3 credits required)	
INTS 490	Internship (minimum of 3 credits required)	
Total Credits		41-43

1 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 and Economics \(EVPE\)](#)
- [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](#)), [PHIL 305](#) Business Ethics).

Students who have already taken and received credit for [MGMT 303](#) Principles of Management or [OM 303](#) Operations Management shall substitute [MGMT 303](#) Principles of Management for [MBUS 301](#) Managing People and Organizations in a Global Economy and [OM 303](#) Operations Management 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.

For this concentration, students may substitute [OM 211](#) Honors Statistical Analysis for Management for [SOCI 313](#) Statistics for the Behavioral Sciences ([Mason Core](#)) (core requirement for degree). Students cannot receive credit for more than one of these.

Core Courses

Code	Course List Title	Credits
Required Courses		
MBUS 300	Accounting in a Global Economy	3
MBUS 301	Managing People and Organizations in a Global Economy	3
MBUS 306	Managing Projects and Operations	3
Additional Course		
Select one course (3 credits) from the following:		3
GOVT 353	Social Entrepreneurship	
IT 495	Turning Ideas into Successful Companies	
MBUS 304	Entrepreneurship: Starting and Managing a New Enterprise	
MGMT 451	Introduction to Entrepreneurship	
Total Credits		12

Two Courses

Code	Course List Title	Credits
Select two courses (6 credits) from the following:		
ECON 335	Environmental Economics	
EVPP 338	Economics of Environmental Policy	
EVPP 362	Intermediate Environmental Policy	
GGS 307	Geographic Approaches on Sustainable Development	
INTS 204	Leadership Theory and Practice	
PHIL 243	Global Environmental Ethics (Mason Core)	
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](#)), [PHIL 343](#) Topics in Environmental Philosophy ([Mason Core](#))).

Required Courses

Code	Course List Title	Credits
CLIM 101	Global Warming: Weather, Climate, and Society (Mason Core)	3-4
or GGS 121	Dynamic Atmosphere and Hydrosphere (Mason Core)	
EVPP 432	Energy Policy	3
EVPP 436	The Human Dimensions of Global Climate Change	3
Total Credits		9-10

Three Courses

Course List

Code	Title	Credits
Select three courses (9 credits) from the following:		9
EVPP 362	Intermediate Environmental Policy	
GGS 302	Global Environmental Hazards	
GGS 304	Population Geography (Mason Core)	
GGS 309	Meteorology and Climate	
GGS 312	Physical Climatology	
GGS 314	Severe and Extreme Weather	
PHIL 243	Global Environmental Ethics (Mason Core) 1	
PHIL 343	Topics in Environmental Philosophy (Mason Core) 1	
Other course work with advisor approval		
Total Credits		9

1 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	Course List 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)	3
CONS 490	RS: Integrated Conservation Strategies (Mason Core)	3
Total Credits		16

Wildlife, Ecology, and Conservation Option (16 ~~15~~ credits)

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

Code	Course List 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)	6
Total Credits		16

Endangered Species and Conservation Option (16 ~~15~~ credits)

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

Code	Course List Title	Credits
CONS 400	Conservation Seminar	2
CONS 406	Small Population Management	4
CONS 491	RS: Conservation Management Planning (Mason Core)	4
CONS 496	Research in Conservation (Mason Core)	6
Total Credits		16

Three Credits

Code	Course List Title	Credits
Select a minimum of three credits from the following:		3
BIOL 472	Introductory Animal Behavior	
EVPP 401	Integrated Environmental Assessment	
EVPP 419	Marine Mammal Biology and Conservation	
EVPP 421	Marine Conservation	
EVPP 430	Fundamentals of Environmental Geographic Information Systems	

Code	Title	Credits
GGG 303	Geography of Resource Conservation (Mason Core)	
INTS 211	Introduction to Conservation Studies (Mason Core)	
INTS 311	The Mysteries of Migration: Consequences for Conservation (Mason Core)	
INTS 370	Sustainable Food Systems	
INTS 371	Food Systems and Policy (Mason Core)	
INTS 403	Conservation Behavior (Mason Core)	
Other course work with advisor approval		
Total Credits		3

Concentration in Environmental Policy and Economics (EVPE)

The requirements for this concentration satisfy the Mason Core requirement in social and behavioral science ([ECON 104](#) Contemporary Macroeconomic Principles ([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](#))).

Required Courses

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

Course List		
Code	Title	Credits
ECON 104	Contemporary Macroeconomic Principles (Mason Core)	3
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		12
Six Credits		

Course List		
Code	Title	Credits
Select a minimum of six credits from the following:		
CONF 340	Global Conflict Analysis and Resolution (Mason Core)	6
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)	
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)	
GGG 305	Economic Geography	
GGG 307	Geographic Approaches on Sustainable Development	
GOVT 339	Issues in the Politics of Advanced Industrial Societies	
GOVT 343	International Political Economy	
GOVT 357	Urban Planning	
GOVT 364	Public Policy Making	
INTS 331	The Nonprofit Sector (Mason Core)	
INTS 371	Food Systems and Policy (Mason Core)	
Other course work with advisor approval		
Total Credits		6

Concentration in Equity and Environmental Justice (EQEJ)

Required Courses

Course List		
Code	Title	Credits

Code	Title	Credits
EVPP 362	Intermediate Environmental Policy	3
EVPP 436	The Human Dimensions of Global Climate Change	3
INTS 336	Poverty, Wealth and Inequality in the US (Mason Core)	3
INTS 337	Social Justice Consciousness and Personal Transformation	3
Total Credits		12
Six Credits		

Code	Title	Credits
Select a minimum of six credits from the following:		
CONF 394	Human Rights and Inequality	6
GGS 304	Population Geography (Mason Core)	
GGS 307	Geographic Approaches on Sustainable Development	
GOVT 445	Human Rights	
INTS 304	Social Movements and Community Activism (Mason Core)	
INTS 331	The Nonprofit Sector (Mason Core)	
INTS 338	Animal Rights and Humane Education	
INTS 362	Social Justice and Human Rights (Mason Core)	
INTS 402	Plants and People - Sustenance, Ceremony, and Sustainability	
SOCL 320	Globalization and Social Change (Mason Core)	
SOCL 355	Social Inequality (Mason Core)	
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)	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:		
ANTH 366	Food and Human Evolution	
ANTH 376	Food and Culture	
BIOL 344	Plant Diversity and Evolution	
BIOL 345	Plant Ecology	
EVPP 436	The Human Dimensions of Global Climate Change	
GGS 303	Geography of Resource Conservation (Mason Core)	
INTS 331	The Nonprofit Sector (Mason Core)	
INTS 338	Animal Rights and Humane Education	
INTS 402	Plants and People - Sustenance, Ceremony, and Sustainability	
NUTR 295	Introduction to Nutrition (Mason Core)	
NUTR 408	Food Security	
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.

**Retroactive
Requirements
Updates:**

Plan of Study:

**Honors
Information:**

Additional Program Information

This information is required by the Office of Accreditation and Program Integrity.

**Courses offered via
distance (if
applicable):**

**What is the
primary delivery
format for the
program?**
Face-to-Face Only

Does any portion of this program occur off-campus?

No

Are you working with a vendor / other collaborators to offer your program?

No

**Related
Departments**

**Could this program prepare students for any type of professional licensure, in
Virginia or elsewhere?**

No

Are you adding or removing a licensure component?

No

Additional SCHEV & SACSCOC Information

Are you changing the total number of credits required for this program?

Are you changing the delivery format in any way (e.g adding an online option)?

Are you adding/removing a licensure option which was approved by SCHEV?

Will any portion of this program be offered at an off-campus location?

Are you adding significant new content areas to the program?

Will this program change affect any specialized accreditation?

Green Leaf Program Designation

Is this a Green Leaf program? Yes

Green Leaf Designation Sustainability-focused designation

Sustainability-focused academic programs require at least one green leaf course. Either that course is itself sustainability-focused or else the program requires a set of sustainability-related courses with aggregated substance equivalent to a sustainability-focused course.

Relationship to Existing Courses

Relationship to Existing Programs

List sustainability-focused courses currently required in the degree program:

Does this program cover material which crosses into another department?

No

Additional Attachments [BAEnvSusStudies\[1\].pdf](#)
[BAEnvSusStudies.pdf](#)

SCHEV Proposal

Executive Summary

Reviewer Comments

Additional Comments

Is this course required of all students in this degree program?

%wi_required.eshtml%

Key: 627