# **Program Change Request**

Date Submitted: 08/13/20 10:06 am

**Viewing: LA-BA-EVSS: Environmental and** 

Sustainability Studies, BA

Last approved: 03/31/20 2:45 pm

Last edit: 08/21/20 1:08 pm Changes proposed by: jbowen4

**Catalog Pages Using this Program** 

Environmental and Sustainability Studies, BA (CHSS)

Environmental and Sustainability Studies, BA (COS)

#### 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: Duration
- 9. Registrar-Programs

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

**Effective Catalog:** 2021-2022

**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

**Approved** Only - SCHEV

**Status** 

**Registrar's Office** 

Use Only -

**Program Start Term** 

Registrar/OAPI Use

Only - SCHEV

Letter

Concentration(s):

### Approval Path

1. 08/13/20 10:59 am A. Alonso Aguirre (aaguirr3):

Approved for ESP

Chair

2. 08/14/20 9:52 am

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)
- 7. Mar 7, 2019 by Jill Bowen (jbowen4)
- 8. Mar 24, 2020 by Jill Bowen (jbowen4)
- 9. Mar 31, 2020 by Tory Sarro (vsarro)

	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
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

**Academic Themes:** 

#### **Justification**

Course number/credit changes to EVPP courses for '20-'21 make it necessary to apply these changes retroactively for '18-'19 and '19-'20.

#### **Additional Justification:**

**Total Credits** 

Total credits: minimum 120

Required:

**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 <u>Undergraduate Admissions Policies</u> section of this catalog. To apply for this program, please complete the <u>George Mason University Admissions Application</u>.

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 <u>Admissions & Policies</u> 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**

**Environmental Science and Society** 

<u>EVPP 377</u>	Applied Ecology 3		
And completion	of one of the following sequences:	11-12	
<b>EVPP 108</b>	Ecosphere - Introduction to Environmental Science I-Lecture (Mason Core)		
& <u>EVPP 10</u>	9 and Ecosphere- Introduction to Environmental Science I- Lab (Mason Core)		
& <u>EVPP 11</u>	and Ecosphere: Introduction to Environmental Science II-Lecture (Mason Core)		
& <u>EVPP 11</u>	and Ecosphere: Introduction to Environmental Science II–Lab (Mason Core)		
& <u>EVPP 33</u>	6 and Human Dimensions of the Environment		
or			
<b>EVPP 201</b>	Environment and You: Issues for the Twenty-First Century (Mason Core)		
& <u>EVPP 30</u>	<u>1</u> and Environmental Science: Biological Diversity and Ecosystems		
& <u>EVPP 30</u>	2 and Environmental Science: Biomes and Human Dimensions		
Individual and G	roup Behavior		
<u>INTS 334</u>	Environmental Justice (Mason Core)	4	
Business and Pul	olic Policy		
Select one cours	e from the following:	3	
<b>ECON 100</b>	Economics for the Citizen (Mason Core)		
<b>ECON 103</b>	Contemporary Microeconomic Principles (Mason Core)		
<b>ECON 105</b>	Environmental Economics for the Citizen (Mason Core)		
EVPP 322	Business and Sustainability	3	
EVPP 361	·		
or <u>GOVT 361</u>	61 Introduction to Environmental Policy		
Statistics			
Select one cours	e from the following:	3-4	
<b>SOCI 313</b>	Statistics for the Behavioral Sciences (Mason Core)		
<b>BIOL 214</b>	Biostatistics for Biology Majors		
STAT 250	Introductory Statistics I (Mason Core)		
Integration, Anal	ysis, Innovation		
<u>INTS 210</u>	Sustainable World (Mason Core)	4	
EVPP 480	Sustainability in Action (Mason Core)	4	
Select one cours	e from the following:	3	
<u>INTS 390</u>	International Internship (minimum of 3 credits required)		
<u>INTS 398</u>	Field-Based Work (minimum of 3 credits required)		
<u>INTS 498</u>	Field-Based Work (minimum of 3 credits required)		
<u>INTS 490</u>	Internship (minimum of 3 credits required)		
<b>EVPP 395</b>	Undergraduate Research in Environmental Science and Policy (minimum of 3 credits		
	required)		
<b>EVPP 494</b>	Internship (minimum of 3 credits required)		
Total Credits		41-43	

# **Concentration in the Major**

1 Satisfies the college BA requirement for social and behavioral science.

#### **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 (<u>PHIL 243</u> Global Environmental Ethics (<u>Mason Core</u>), <u>PHIL 305</u> 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.

#### **Core Courses**

#### **Required Courses**

**EVPP 338** 

**EVPP 362** 

GGS 307

**INTS 204** 

MBUS 300	Accounting in a Global Economy	3	
MBUS 301	Managing People and Organizations in a Global Economy		
MBUS 306	Managing Projects and Operations	3	
Additional Cou	rse		
Select one cou	rse (3 credits) from the following:	3	
<b>GOVT 353</b>	Social Entrepreneurship		
<u>INTS 375</u>	Special Topics (when topic is relevant with approval)		
<u>INTS 450</u>	Social Innovation in Action		
<u>INTS 475</u>	Special Topics (when topic is relevant with approval)		
<u>IT 495</u>	Turning Ideas into Successful Companies		
MBUS 304	5 304 Entrepreneurship: Starting and Managing a New Enterprise		
MGMT 451	MGMT 451 Introduction to Entrepreneurship		
<b>EVPP 490</b>	EVPP 490 Special Topics in Environmental Science and Policy (when topic is relevant with approval)		
<b>EVPP 505</b>	EVPP 505 Selected Topics in Environmental Science (when topic is relevant with approval)		
Total Credits		12	
Two Courses			
Select two cou	rses (6 credits) from the following:	6	
<b>ECON 335</b>	ECON 335 Environmental Economics		

**Economics of Environmental Policy** 

Intermediate Environmental Policy

Leadership Theory and Practice

Geographic Approaches for Sustainable Development

PHIL 243	Global Environmental Ethics (Mason Core)	
PHIL 305	Business Ethics	
Other cou	rse work with advisor approval	
Total Credits		6
Concentration	on in Climate Change and Society (CCSO)	
The requirem	ents for this concentration, depending on the electives chosen, may satisfy the college BA	
requirement i	in philosophy and religious studies ( <u>PHIL 243</u> Global Environmental Ethics <u>(Mason Core)</u> , <u>PHIL 3</u> -	<u>43</u>
Topics in Envi	ronmental Philosophy (Mason Core)).	
Required Cou	rses	
<u>CLIM 101</u>	Global Warming: Weather, Climate, and Society (Mason Core)	3-4
or <u>GGS 121</u>	Dynamic Atmosphere and Hydrosphere (Mason Core)	
EVPP 432	Energy Policy	3
EVPP 436	The Human Dimensions of Global Climate Change	3
<b>Total Credits</b>		9-10
Three Course	S	
Select three c	courses (9 credits) from the following:	9
<b>CLIM 102</b>	Introduction to Global Climate Change Science (Mason Core)	
<b>CLIM 314</b>	Severe and Extreme Weather	
<b>CLIM 319</b>	Air Pollution	
<b>EVPP 362</b>	Intermediate Environmental Policy	
<b>EVPP 378</b>	RS: Ecological Sustainability (Mason Core)	
<b>EVPP 442</b>	Urban Ecosystems and Processes	
<b>EVPP 490</b>	Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
<b>EVPP 505</b>	Selected Topics in Environmental Science (when topic is relevant with approval)	
GGS 302	Global Environmental Hazards	
GGS 304	Population Geography ( <u>Mason Core</u> )	
GGS 306	Urban Geography	
GGS 309	Meteorology and Climate	
GGS 312	Physical Climatology	
GGS 314	Severe and Extreme Weather	
<u>INTS 375</u>	Special Topics (when topic is relevant with approval)	
<u>INTS 475</u>	Special Topics (when topic is relevant with approval)	
PHIL 243	Global Environmental Ethics (Mason Core) 1	
PHIL 343	PHIL 343 Topics in Environmental Philosophy (Mason Core) 1	
Other cou	rse work with advisor approval	
<b>Total Credits</b>		9
1 Satisfies the	e college BA requirement in philosophy and religious studies.	
Concentration	on in Conservation and Sustainability (CSUS)	
Smithsonian-	Mason Program	
Students com	plete one of the programs offered through the Smithsonian-Mason School of Conservation in	
cooperation v	vith the Smithsonian Conservation Biology Institute.	

Conservation,	Biodiversity and Society Option (16 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, Ecolo	gy, and Conservation Option (16 credits)	
Offered only in	n Fall semesters, students complete four required courses:	
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 S <sub>I</sub>	pecies and Conservation Option (16 credits)	
Offered only in	Spring semesters, students complete four required courses:	
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		
Select a minim	num of three credits from the following:	3
<b>BIOL 332</b>	Insect Biology (when topic is relevant with approval)	
<b>BIOL 472</b>	Introductory Animal Behavior	
<b>EVPP 337</b>	Environmental Policy Making in Developing Countries	
EVPP/BIOL	350 Freshwater Ecosystems	
<b>EVPP 355</b>	Ecological Engineering and Ecosystem Restoration	
<b>EVPP 401</b>	Integrated Environmental Assessment	
<b>EVPP 408</b>	Mushrooms, Molds and Society	
<b>EVPP 419</b>	Marine Mammal Biology and Conservation	
<b>EVPP 421</b>	Marine Conservation	
<b>EVPP 423</b>	Beekeeping and Sustainability	
EVPP/BIOL	427 Conservation Medicine	
<b>EVPP 430</b>	Fundamentals of Environmental Geographic Information Systems	
<b>EVPP 432</b>	Energy Policy	
<b>EVPP 436</b>	The Human Dimensions of Global Climate Change	
EVPP/BIOL	437 Orinthology	
EVPP/BIOL	438 Mammalogy	
EVPP/BIOL	439 Herpetology	
EVPP/BIOL	449 Marine Ecology	

<b>EVPP 451</b>	Fungi and Ecosystems	
<b>EVPP 460</b>		
<b>EVPP 475</b>	Global Biodiversity Governance	
GGS 303	Geography of Resource Conservation (Mason Core)	
GGS 307	Geographic Approaches for Sustainable Development	
GGS 321/BIOL 3	374 Biogeography	
<u>INTS 211</u>	Introduction to Conservation Studies (Mason Core)	
<u>INTS 301</u>	Science in the News (Mason Core)	
<u>INTS 304</u>	Social Movements and Community Activism (Mason Core)	
<u>INTS 311</u>	The Mysteries of Migration: Consequences for Conservation (Mason Core)	
<u>INTS 331</u>	The Nonprofit Sector (Mason Core)	
<u>INTS 370</u>	INTS 370 Sustainable Food Systems	
<u>INTS 371</u>	INTS 371 Food Systems and Policy (Mason Core)	
<u>INTS 401</u>	INTS 401 Conservation Biology (Mason Core)	
<u>INTS 403</u>	<u>INTS 403</u> Conservation Behavior ( <u>Mason Core</u> )	
<u>INTS 375</u>	INTS 375 Special Topics (when topic is relevant with approval)	
<u>INTS 475</u>	INTS 475 Special Topics (when topic is relevant with approval)	
<b>EVPP 490</b>	EVPP 490 Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
<b>EVPP 505</b>	<u>EVPP 505</u> Selected Topics in Environmental Science (when topic is relevant with approval)	
Other course w	ork 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	
( <u>ECON 104</u> Contemporary Macroeconomic Principles ( <u>Mason Core</u> )) 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 the	se courses will satisfy the Mason Core social and behavioral science requirement.	
EVPP 338	Economics of Environmental Policy	3
EVPP 362	Intermediate Environmental Policy	3

9

Economics of Environmental Policy	3
Intermediate Environmental Policy	3
Intermediate Environmental Policy	
Administration in the Political System	3
	9
	Intermediate Environmental Policy Intermediate Environmental Policy

#### Nine Credits

Select a minimum of nine credits from the following:

**COMM 412** Politics and the Mass Media

CONF 340 Global Conflict Analysis and Resolution (Mason Core)

ECON 103 Contemporary Microeconomic Principles (Mason Core) (if not used to meet the Business and Public Policy core requirement)

ECON 104 Contemporary Macroeconomic Principles (Mason Core)

**ECON 306** Intermediate Microeconomics

**ECON 311** Intermediate Macroeconomics

<b>ECON 330</b>	Public Finance	
<b>ECON 345</b>	Introduction to Econometrics	
ECON 360	Economics of Developing Areas (Mason Core)	
<b>ECON 412</b>	Game Theory and Economics of Institutions	
<b>EVPP 337</b>	Environmental Policy Making in Developing Countries	
<b>EVPP 396</b>	Directed Topic in Environmental Science and Policy	
<b>EVPP 401</b>	Integrated Environmental Assessment	
<b>EVPP 432</b>	Energy Policy	
<b>GEOL 420</b>	Earth Science and Policy (Mason Core)	
<b>GGS 305</b>	Economic Geography	
<b>GGS 307</b>	Geographic Approaches for Sustainable Development	
<b>GOVT 307</b>	Legislative Behavior	
<b>GOVT 343</b>	International Political Economy	
<b>GOVT 357</b>	Urban Planning	
<b>GOVT 364</b>	Public Policy Making	
<b>GOVT 452</b>	Administrative Law and Procedures	
<b>GOVT 464</b>	Issues in Public Policy and Administration	
<u>INTS 331</u>	The Nonprofit Sector (Mason Core)	
<u>INTS 371</u>	Food Systems and Policy (Mason Core)	
<u>USST 301</u>	Urban Growth in a Shrinking World	
<b>EVPP 490</b>	Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
<b>EVPP 505</b>	Selected Topics in Environmental Science (when topic is relevant with approval)	
<u>INTS 375</u>		
<u>INTS 475</u>	Special Topics (when topic is relevant with approval)	
Other cour	se work with advisor approval	
Total Credits		9
Concentration	on in Equity and Environmental Justice (EQEJ)	
Required Cour	rses	
EVPP 362	Intermediate Environmental Policy	3
EVPP 436	The Human Dimensions of Global Climate Change	3
<u>INTS 336</u>	Poverty, Wealth and Inequality in the US (Mason Core)	3
<u>INTS 337</u>	Social Justice Consciousness and Personal Transformation	3
Total Credits		12
Six Credits		
Select a minim	num of six credits from the following:	6
<b>CONF 394</b>	Human Rights and Inequality	
<b>GGS 304</b>	Population Geography (Mason Core)	
<b>GGS 307</b>	Geographic Approaches for Sustainable Development	
<b>GOVT 445</b>	Human Rights	
INTS 304	Social Movements and Community Activism (Mason Core)	
<u>INTS 331</u>	The Nonprofit Sector (Mason Core)	

<u>INTS 362</u>	Social Justice and Human Rights (Mason Core)	
<u>INTS 402</u>	Plants and People - Sustenance, Ceremony, and Sustainability	
<u>INTS 450</u>	Social Innovation in Action	
<u>SOCI 320</u>	Globalization and Social Change (Mason Core)	
<u>SOCI 355</u>	Social Inequality (Mason Core)	
<u>INTS 375</u>	Special Topics (when topic is relevant with approval)	
<u>INTS 475</u>	Special Topics (when topic is relevant with approval)	
<b>EVPP 490</b>	Special Topics in Environmental Science and Policy (when topic is relevant with approval)	
<b>EVPP 505</b>	Selected Topics in Environmental Science (when topic is relevant with approval)	
Other cour	rse work with advisor approval	
Total Credits		6
Concentration	on in Sustainable Food and Agriculture (SFG)	
Required Cou	-	
<u>INTS 370</u>	Sustainable Food Systems	6
<u>INTS 371</u>	Food Systems and Policy (Mason Core)	3
<u>INTS 470</u>	Professional Pathways in Sustainable Food Systems	1
Total Credits		10
Eight Credits		
Select a minin	num of eight credits from the following:	8
<u>ANTH 366</u>	Food and Human Evolution	
<u>ANTH 376</u>	Food and Culture	
<b>BIOL 344</b>	Plant Diversity and Evolution	
BIOL 345	Plant Ecology	
<b>EVPP 423</b>	Beekeeping and Sustainability	
<b>EVPP 436</b>	The Human Dimensions of Global Climate Change	
GGS 303	Geography of Resource Conservation (Mason Core)	
<u>INTS 331</u>	The Nonprofit Sector (Mason Core)	
<u>INTS 402</u>	Plants and People - Sustenance, Ceremony, and Sustainability	
NUTR 295	Introduction to Nutrition (Mason Core)	
NUTR 318	Global Nutrition and Food Security	
NUTR 383	Taste and Place	
NUTR 408	Food Security	
NUTR 421	Community Nutrition	
NUTR 435	Urban Agriculture	
<u>INTS 375</u>	Special Topics (when topic is relevant with approval)	
<u>INTS 475</u>	Special Topics (when topic is relevant with approval)	
<b>EVPP 490</b>		
<b>EVPP 505</b>	Selected Topics in Environmental Science (when topic is relevant with approval)	
Other cour	rse 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:** 

In addition to current the Environmental Science and Society section of the Core Course requirements in catalogs '18-'19 and '19-'20, the following (current '20-'21) should be allowed as another possible group for this requirement:

EVPP 108 & EVPP 109 & EVPP 112 & EVPP 113 & EVPP 336

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

Face-to-Face Only

primary delivery format for the program?

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** 

Virginia or elsewhere?	
No	
Are you adding or removing a	licensure component?
No	
Additional SCHEV & SA	CSCOC Information
Are you changing the total nu	mber 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 lie	censure option which was approved by SCHEV?
Will any portion of this progra	am be offered at an off-campus location?
Are you adding significant nev	w content areas to the program?
Will this program change affe	ct any specialized accreditation?

## **Green Leaf Program Designation**

Is this a Green Leaf Yes

program?

Green Leaf Sustainability-focused designation

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 sustainabilityfocused courses currently required in the degree program:

Does this program cover material which crosses into another department?

No

AdditionalBAEnvSusStudies[1].pdfAttachmentsBAEnvSusStudies.pdf

**SCHEV Proposal** 

**Executive Summary** 

Reviewer Comments

Additional Comments

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

%wi\_required.eschtml%

Key: 627