

Program Change Request

Date Submitted: 11/02/20 9:53 am

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

Last approved: 09/17/20 11:32 am

Last edit: 11/13/20 10:19 am

Changes proposed by: jbazaz

Catalog Pages

Using this Program

[Environmental and Sustainability Studies, BA \(CHSS\)](#)

[Environmental and Sustainability Studies, BA \(COS\)](#)

2021-2022

Rationale for

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

Yes

Requestor:

In Workflow

1. Registrar-Programs:Workflow Review (P.O.)
2. ESP Chair
3. LA Associate Dean
4. SC Curriculum Committee
5. SC Associate Dean
6. SC CAT Editor
7. LA CAT Editor
8. Assoc Provost-Undergraduate
9. Registrar-Programs

Approval Path

1. 11/02/20 10:13 am
Tory Sarro (vsarro):
Approved for Registrar-Programs:Workflow Review (P.O.)
2. 11/02/20 10:28 am
A. Alonso Aguirre (aaguirr3):
Approved for ESP Chair
3. 11/04/20 11:15 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)
10. Sep 17, 2020 by Jill Bowen (jbowen4)

Name	Extension	Email
Joris van der Ham	5863	jvanderh

Effective Catalog: 2021-2022

Program Level: Undergraduate

Program Type: Bachelor's

Degree Type: Bachelor of Arts

Title: Environmental and Sustainability Studies, BA

Banner Title: Envrmntl & Sustainab Stdes

Is this a retitling of an existing program?

Existing Program

Registrar/OAPI Use Only – SCHEV Status Approved

**Registrar's Office
Use Only –
Program Start Term**

**Registrar/OAPI Use
Only – SCHEV
Letter**

**Registrar/OAPI Use
Only – SACSCOC
Status**

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
5	Equity and Environmental Justice	EQEJ
6	Sustainable Food and Agriculture	SFG

INTO Major(s):

**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

Correcting the core to change EVPP 201 to EVPP 210; switching this course was a clerical error.

Making this change retroactive to students in the 2020-2021 catalog.

Additional Justification:**Catalog Published Information**

Total Credits Required: Total credits: minimum 120

Registrar's Office Use Only - Program Code:

LA-BA-EVSS

Registrar/IRR Use Only – Program CIP Code 30.3301 - Sustainability Studies.

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

Environmental Science and Society

[EVPP 377](#)

Applied Ecology

3

And completion of one of the following sequences:

11-12

- EVPP 108** Ecosphere - Introduction to Environmental Science I-Lecture (Mason Core)
 & **EVPP 109** and Ecosphere- Introduction to Environmental Science I- Lab (Mason Core)
 & **EVPP 112** and Ecosphere: Introduction to Environmental Science II-Lecture (Mason Core)
 & **EVPP 113** and Ecosphere: Introduction to Environmental Science II-Lab (Mason Core)
 & **EVPP 336** and Human Dimensions of the Environment

or

- EVPP 201** ~~Environment and You: Issues for the Twenty-First Century (Mason Core)~~
 & **EVPP 301** ~~and Environmental Science: Biological Diversity and Ecosystems~~
 & **EVPP 302** ~~and Environmental Science: Biomes and Human Dimensions~~
- 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

Select one course from the following: 3

- ECON 100** Economics for the Citizen (Mason Core)
ECON 103 Contemporary Microeconomic Principles (Mason Core)
ECON 105 Environmental 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 course from the following: 3

- INTS 390** International Internship (minimum of 3 credits required)
INTS 398 Field-Based Work (minimum of 3 credits required)
INTS 498 Field-Based Work (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

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.

Core Courses

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	
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)	
IT 495	Turning Ideas into Successful Companies	
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

Select two courses (6 credits) from the following: 6

ECON 335	Environmental Economics
EVPP 338	Economics of Environmental Policy

EVPP 362	Intermediate Environmental Policy
GGS 307	Geographic Approaches for 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

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

Select three courses (9 credits) from the following:

9

CLIM 102	Introduction to Global Climate Change Science (Mason Core)
CLIM 314	Severe and Extreme Weather
CLIM 319	Air Pollution
EVPP 362	Intermediate Environmental Policy
EVPP 378	RS: Ecological Sustainability (Mason Core)
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)
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) 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)

<u>CONS 320</u>	Conservation in Practice	3
<u>CONS 401</u>	Conservation Theory	3
<u>CONS 402</u>	Applied Conservation	4
<u>CONS 410</u>	Human Dimensions in Conservation (<u>Mason Core</u>)	3
<u>CONS 490</u>	RS: Integrated Conservation Strategies (<u>Mason Core</u>)	3
Total Credits		16

Wildlife, Ecology, and Conservation Option (16 credits)

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

<u>CONS 400</u>	Conservation Seminar	2
<u>CONS 404</u>	Biodiversity Monitoring	4
<u>CONS 405</u>	Landscape and Macrosystems Ecology	4
<u>CONS 496</u>	Research in Conservation (<u>Mason Core</u>)	6
Total Credits		16

Endangered Species and Conservation Option (16 credits)

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

<u>CONS 400</u>	Conservation Seminar	2
<u>CONS 406</u>	Small Population Management	4
<u>CONS 491</u>	RS: Conservation Management Planning (<u>Mason Core</u>)	4
<u>CONS 496</u>	Research in Conservation (<u>Mason Core</u>)	6
Total Credits		16

Three Credits

Select a minimum of three credits from the following:

3

<u>BIOL 332</u>	Insect Biology (when topic is relevant with approval)
<u>BIOL 472</u>	Introductory Animal Behavior
<u>EVPP 337</u>	Environmental Policy Making in Developing Countries
<u>EVPP/BIOL 350</u>	Freshwater Ecosystems
<u>EVPP 355</u>	Ecological Engineering and Ecosystem Restoration
<u>EVPP 401</u>	Integrated Environmental Assessment
<u>EVPP 408</u>	Mushrooms, Molds and Society
<u>EVPP 419</u>	Marine Mammal Biology and Conservation
<u>EVPP 421</u>	Marine Conservation
<u>EVPP 423</u>	Beekeeping and Sustainability
<u>EVPP/BIOL 427</u>	Conservation Medicine
<u>EVPP 430</u>	Fundamentals of Environmental Geographic Information Systems
<u>EVPP 432</u>	Energy Policy
<u>EVPP 436</u>	The Human Dimensions of Global Climate Change
<u>EVPP/BIOL 437</u>	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
GGG 303	Geography of Resource Conservation (Mason Core)
GGG 307	Geographic Approaches for Sustainable Development
GGG 321/BIOL 374	Biogeography
INTS 211	Introduction to Conservation Studies (Mason Core)
INTS 301	Science in the News (Mason Core)
INTS 304	Social Movements and Community Activism (Mason Core)
INTS 311	The Mysteries of Migration: Consequences for Conservation (Mason Core)
INTS 331	The Nonprofit Sector (Mason Core)
INTS 370	Sustainable Food Systems
INTS 371	Food Systems and Policy (Mason Core)
INTS 401	Conservation Biology (Mason Core)
INTS 403	Conservation Behavior (Mason Core)
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 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.

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

Select a minimum of nine credits from the following: 9

- [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
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)
GGS 305	Economic Geography
GGS 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)
INTS 371	Food Systems and Policy (Mason Core)
USST 301	Urban Growth in a Shrinking World
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

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

Select a minimum of six credits from the following: 6

CONF 394	Human Rights and Inequality
GGS 304	Population Geography (Mason Core)
GGS 307	Geographic Approaches for Sustainable Development

- [GOVT 445](#) Human Rights
- [INTS 304](#) Social Movements and Community Activism ([Mason Core](#))
- [INTS 331](#) The Nonprofit Sector ([Mason Core](#))
- [INTS 362](#) Social Justice and Human Rights ([Mason Core](#))
- [INTS 402](#) Plants and People - Sustenance, Ceremony, and Sustainability
- [INTS 450](#) Social Innovation in Action
- [SOCI 320](#) Globalization and Social Change ([Mason Core](#))
- [SOCI 355](#) Social Inequality ([Mason Core](#))
- [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

- [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

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 423](#) Beekeeping and Sustainability
- [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 402](#) 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
- [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.

Retroactive Requirements Updates:

In addition to the current listing in 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

October 2020: Allow students in the 2020-2021 catalog to take EVPP 210 as opposed to EVPP 201.

Plan of Study:

Honors Information:

Accelerated Description/Dual Degree Description:

INTO-Mason Requirements:

**College
Requirements &
Policies:**

**Department /
Academic Unit
Requirements &
Policies:**

Program Outcomes

Additional Program Information

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

Courses offered via distance (if applicable):

Indicate whether students are able

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

Does any portion of this program occur off-campus?

No

Off-campus details:

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

No

Please explain:

Related Departments

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

No

Please explain:

Are you adding or removing a licensure component?

No

Please explain:

Additional SCHEV & SACSCOC Information

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

No

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

No

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

No

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

No

What off-campus location(s)? List all

**What percentage of credits toward this program are offered at the off-campus location(s)?
Please list percentages by site (i.e. 15% at Site A, 35% at Site B etc.)**

Will this program change affect any specialized accreditation?

No

Is the content of the new program closely related to that of an existing approved program?

No

Which existing approved program(s)?

Is this new program considered to be "advancing the degree level of a currently approved program" (i.e. existing content is at lower degree level, new content is at the higher degree level)?

No

Which existing approved program(s)?

Is this new program considered to be "lowering the degree level of a currently approved program" (i.e. existing content is at higher degree level, new content is at the lower degree level)?

No

Which existing approved program(s)?

Does this change represent a repackaging of content in an existing approved degree/certificate program?

No

Which existing approved program(s)?

Percentage of total credits containing new course content, excluding gen ed courses for undergraduate programs ("New content" means content that is not currently included in an existing approved degree/certificate program.) Please choose a percentage (i.e. 0%-100%)

less than 25%

Are the total credits for the program increasing or decreasing by more than 3 credits?

No

Will any additional equipment/facilities be needed?

No

Description of institutional impact:

Will any additional faculty be required?

No

Description of institutional impact:

Will any additional financial resources be needed?

No

Description of institutional impact:

Will any additional library/learning resources needed?

No

Description of institutional impact:

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

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:

Sustainability-related academic programs either require at least one sustainability-related course or else offer any green leaf course as an option or elective *

List sustainability-related courses currently required in the degree

Does this program cover material which crosses into another department?

No

Impacted Departments

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%

Attached Document

Key: 627