

Program Approval Form

For approval of new programs and deletions or modifications to an existing program.

Calland Cabania COC	en-Hamakers	Department:		
College/School: COS	en-Hamakers	Dopartinone.	ESP	
Submitted by: Ingrid Vissere		Ext: 35805	E	mail: ivissere@gmu.edu
Justification: (attach separate dor The M.S. program Environmen EVPP 608 "Introduction to Envi to the class "Fundamentals of E sciences. The course EVPP 60 at the undergraduate and/or gra	program must be fully applications if necessary) tal Science and Policy lacked ironmental Social Science" (ESEcology" (EVPP 607), which is should become required for	an introductory cou SS) will fill this gap, required for stude M.S. students who	Banner, and publisse for the social literature as the will serve as the with little expression or little expression.	s the social science equivalent xperience in the natural tle social scientific experience
		· · · · · · · · · · · · · · · · · · ·		
	Existing			New/Modified
Program Title: (Required) Title must identify subject matter. Do not include name of college/school/dept. Concentration(s):	Environmental Science and Po	olicy MS		
Admissions Standards / Application Requirements: (Required only if different from those listed in the University Catalog)				
Degree Requirements: Consult University Catalog for models, attach separate document if necessary using track changes for modifications			See attached doo	cument.
Courses offered via distance:	To the state of th			
TOTAL CREDITS REQUIRED:				
*For Certificates Only: Indicate	whether students are able to	pursue on a	Full-time bas	is Part-time basis
Approval Signatures		Data		
If this program may impact anoth proposal for review by those units a			Require ason, the origina	st's Office Date ad for Minors and Interdisciplinary Programs ating department must circulate this on will delay action on this proposal
	Unit Approval Name	Unit Approver's S		Date
For Graduate Programs				

Graduate Council Member	Provost Office	 Graduate Council Approval Date
		Construction of the contract o

Banner

Program Proposal Submitted to the College of Science Curriculum Committee (COSCC)

Catalog

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference.

Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

FOR ALL PROGRAMS (required)

For Reaistrar Office's Use Only: Received

Program Title: Environmental Science and Policy MS

Date of Departmental Approval:

FOR INACTIVATED PROGRAMS (required if inactivating a program)

Reason for Inactivation:

FOR MODIFIED PROGRAMS (required if modifying a program)

- Summary of the Modification: add EVPP 608 as required course for students with no or little social science background.
- Text before Modification (title, degree requirements, etc.):

See attached document.

• Text after Modification (title, degree requirements, etc.):

See attached document.

• Reason for the Modification:

The M.S. program Environmental Science and Policy lacked an introductory course for the social sciences. The course EVPP 608 "Introduction to Environmental Social Science" (ESS) will fill this gap. It will serve as the social science equivalent to the class "Fundamentals of Ecology" (EVPP 607), which is required for students with little experience in the natural sciences. The course EVPP 608 should become required for M.S. students who have no or little social scientific experience at the undergraduate and/or graduate level, as it provides a basis for the social sciences for the whole program.

FOR NEW PROGRAMS (required if creating a new program)

- · Reason for the New Program:
- Relationship to Existing Programs:
- Relationship to Existing Courses:
- Semester of Initial Offering:
- Insert Tentative SCHEV Proposal Below

Environmental Science and Policy, MS

Banner Code: SC-MS-EVSP



climate change/warming, and depletion of the stratospheric ozone. Areas of specific departmental focus include ecosystems; human/environmental interactions. conservation; environmental biocomplexity; molecular ecology; sustainability science; environmental policy and management and conservation biology, and ecosystem preservation. These professionals will also contribute to the analysis and resolution of global problems of land and water management, land use and urbanization, wetland loss, microbial ecology, bioremediation, The Environmental Science and Policy, MS meets the increasing need for trained environmental professionals who can address the problems, such as deforestation, insufficient world food supplies, acid deposition, population growth and public health, global This program of study is offered by the Department of Environmental Science and Policy in the College of Science

solutions require creative combinations of diverse interests and subjects. Effective training requires rigorous, problem-focused interdisciplinary action in a setting in which research is an essential element supporting instruction. Environmental problems are defined in the real world and do not necessarily conform to traditional academic disciplines. As such,

serves as a home for a broad array of research foci. The conservation science and policy concentration is designed to be an Six concentrations are available in the master's program: aquatic ecology, environmental science and policy, conservation science interdisciplinary, research-oriented degree focusing on the conservation of threatened species and habitats, integrating biological as a training ground for students wishing to further their education by pursuing the Environmental Science and Public Policy. and policy, environmental biocomplexity, Earth surface processes and environmental geochemistry, and environmental management. The first five concentrations, designed for students who wish to obtain a research oriented master's degree, can serve PhD at Mason or doctoral programs at other universities. The environmental science and policy concentration is the largest and

systematics. The concentration in Earth surface processes and environmental geochemistry provides a specific research focus in the students who wish to obtain a research-oriented master's degree in population genetics, microbial ecology, and molecular sciences and the human dimensions of conservation practice. The environmental biocomplexity concentration is designed for Earth science area.

administrative skills developed in a traditional master of public administration degree program with the scientific knowledge and aspiring to work as managers in the environmental field in government or private industry. It combines the managerial and understanding normally found in a master of science degree. The environmental management concentration serves as a terminal professional master's degree for individuals working in or

This has been designated a Green Leaf program. For further information, please visit Green Leaf Programs and Courses

Admission Requirements

and chemistry prerequisites for admission. These introductory courses would be in addition to the degree requirements listed chemistry and biology courses, offered by the Department of Environmental Science and Policy, can be used to satisfy the biology institution. Applicants should have taken at least two semesters of chemistry and three semesters of biology, including a course in engineering, resource planning, environmental studies, or a field that leads to an environmental focus from a regionally accredited coordinator's office for advice. Successful completion of a two-semester sequence of introductory graduate level environmental ecology. Applicants who lack the prerequisite college-level coursework in biology and chemistry should contact the graduate the Mason Graduate Application. Applicants should hold a bachelor's degree with a GPA of 3.00 in natural or Earth sciences. requirements for graduate study, as specified in the Graduate Admission Policies section of this catalog. Applicants must complete Persons interested in graduate programs at George Mason University must meet the admission standards and application

Applicants should submit the following:

- Three letters of recommendation, including at least one from a former professor or, if not available, from someone with a PhD
- The aptitude portion of the GRE is required, and successful applicants usually have achieved a minimum score of 1100 (or the equivalent using the new ETS scale) for verbal and quantitative combined.
- Applicants must also submit a statement of interest to the program, which should include the concentration to which they are applying, potential areas of environmental focus and research interest, a statement of interactions with potential faculty advisors, and an explanation of career goals
- Prospective students must contact potential faculty advisors appropriate to their interests during the application process. In

addition, the potential advisor must send a letter of endorsement to the graduate office to include why the student would be for final admission good fit for the advisor's research program. The availability of an advisor in the student's area of interest is a prerequisite

Degree Requirements

academic units at Mason. The program requires a minimum of 33 graduate credits distributed in selected categories to provide a Science and Policy, MS. Students must form a supervisory committee and submit a program of study to the graduate coordinator Students will complete 33-37 credits of a concentration according to requirements described below to earn the Environmental Projects are generally less extensive and can include a broader range of activities. involves original research with independent acquisition and interpretation of data, with the goal of peer-reviewed publication. formal thesis (EVPP 799). The depth and sophistication of the research differs between the two options. The thesis normally This research requirement may be satisfied in one of two ways. Students may complete a research project (EVPP 798) or produce a members. The advisor and thesis committee approve the coursework program individually for each student. the student's degree program (if appropriate) and should be developed in close consultation with the advisor and committee individual program focus, which is stated and briefly described in the program of study and support the research component of breadth of knowledge appropriate for addressing current environmental issues. Course selection should reflect a coherent Mason's Requirements for Master's Degrees. Course requirements may be fulfilled by completing courses from a variety of committee consists of the advisor and at least two other members, chosen in consultation with the advisor and conforming to for approval within the first 9 credits of coursework or by the end of the second semester, whichever comes first. The supervisory

component. Students choosing to do a thesis and completing EVPP 799 will present their results in a public seminar and defend Students fulfilling the research requirement with EVPP 798 are required to take a comprehensive examination covering knowledge the advisor for students in this concentration. For the concentration in environmental management, there is no supervisory committee. The graduate program director serves as their thesis before their supervisory committee. Students will be graded pass/no credit on the research component. mastered through the program of study, administered by their supervisory committee. This includes both a written and oral

▲ Aquatic Ecology Concentration (AQEC)

watersheds, and estuaries. Emphasis is placed on food webs, biogeochemical cycles, water quality, habitat characteristics, and life histories of aquatic organisms. Students will become proficient with research tools including literature review, field and laboratory This concentration will provide students with a well-grounded MS in the study of aquatic environments such as lakes, streams,

methods, and analytical tools as well as applications to management issues

consultation with the advisor and committee members. The advisor and thesis committee approve the coursework program individually for each student. Course selection should also support the research component of the student's degree program and should be developed in close

Aquatic Science (12 credits)

Required Core Courses:

INCUMENT COMPANY				
Course Name	Credits:	Term Taken	Gra	Gen Ed
			de	
EVPP 550 - Waterscape Ecology and Management	Credits: 3			
EVPP 581 - Estuarine and Coastal Ecology	Credits: 3			
Remaining 6 credits chosen from the following:				
EVPP 505 - Selected Topics in Environmental Science	Credits: 0-4			
EVPP 519 - Marine Mammal Biology and Conservation	Credits: 3			
EVPP 521 - Marine Conservation	Credits: 3			
EVPP 536 - The Diversity of Fishes	Credits: 3			
EVPP 563 - Coastal Morphology and Processes	Credits: 4			
EVPP 641 - Environmental Science and Public Policy	Credits: 3			
EVPP 643 - Microbial Ecology	Credits: 4			
EVPP 645 - Freshwater Ecology	Credits: 3			
EVPP 646 - Wetland Ecology and Management	Credits: 3			
EVPP 648 - Population Ecology	Credits: 3			
EVPP 652 - The Hydrosphere	Credits: 3			
EVPP 741 - Advanced Topics in Environmental Science and	Credits: 0-4			
Public Policy				
EVPP 745 - Environmental Toxicology	Credits: 3			
Driblic Policy (6 crodite)				

Public Policy (6 credits)

At least 6 credits are required in environmental law, human ecology, environmental ethics, environmental conflict resolution,

be included within the 6 credits. environmental planning, or public affairs. EVPP 608 is required for students with limited previous coursework in the social sciences and can

Aquatic Methods (6 credits)

information systems, lab and field classes (EVPP 555, EVPP 582, EVPP 647) At least 6 credits are required to be selected from statistics, research design, multivariate data analysis (EVPP 651), geographic

Seminar (1 credit)				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
EVPP 692 - Master's Seminar in Environmental Science and	Credits: 1			
Public Policy				
Research (1-6 credits)				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
Project Option:				
At least 1 credit of EVPP 798 - Master's Research Project in Environmental Science and Public Policy	Credits: 1-3			
Thesis Option:				
At least 3 credits of EVPP 799 - Master's Thesis in Environmental Science and Public Policy	Credits: 1-6			
Flactivac				

Electives

If necessary, students can take additional electives in consultation with their advisor to bring the total to 33 credits

Degree with AQEC Concentration Total: 33 credits

Conservation Science and Policy Concentration (COSP)

conservation of species and habitats. Students may take courses offered by ESP and other departments on the Fairfax campus as This concentration is for students desiring an Environmental Science and Policy, MS with an interdisciplinary approach to the

and training of conservation practitioners around the world and instructors for these classes are drawn from SCBI's conservation scientists and other experts from around the world. conservation science and human dimensions through residential, intensive classes. SCBI is renowned for its conservation research Smithsonian Conservation Biology Institute (SCBI) in Front Royal, Virginia offers students hands-on education in cutting-edge well as CONS courses which are offered through the Smithsonian Mason School of Conservation. This unique partnership with the

individually for each student. consultation with the advisor and the committee members. The advisor and thesis committee approve the coursework program conservation issues. Course selection should support the research component of the student's degree program developed in close of 33 graduate credits distributed in five categories and provides a breadth of knowledge appropriate for addressing current Requirements may be fulfilled by completing courses from a variety of academic units at Mason. The program requires a minimum

Conservation Science (6 credits)

At least 6 credits are required from conservation science courses. Suggested courses include:

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	Course Name	Credits:	Term Taken	Gra	Gen Ed
				de	
	EVPP 518 - Conservation Biology	Credits: 3			
	EVPP 519 - Marine Mammal Biology and Conservation	Credits: 3			
	EVPP 543 - Tropical Ecosystems	Credits: 4			
	EVPP 550 - Waterscape Ecology and Management	Credits: 3			
	EVPP 607 - Fundamentals of Ecology (is required for those	Credits: 3			
	students without previous coursework in ecology and can be				
	included within the 6 credits.)				
	EVPP 621 - Overview of Biodiversity Conservation	Credits: 3			
	CONS 630 - Species Monitoring & Conservation (variable	Credits: 3			
,	topics, may be taken more than once if different topic)				
	Concernation Policy and Human Dimonsions of Concernation 16	or constitute (a condition)			

Conservation Policy and Human Dimensions of Conservation (6 credits)

coursework in the social sciences and can be included within the 6 credits. Suggested courses include: At least 6 credits are required in conservation policy or social science courses. EVPP 608 is required for students with limited previous

Course Name	Crodite	Town Talon	ָרֶיי בי	Car Ex
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EVPP 521 - Marine Conservation	Credits: 3			
EVPP 608 - Environmental Social Science	Credits: 3			
EVPP 622 - Management of Wild Living Resources	Credits: 3			
EVPP 642 - Environmental Policy	Credits: 3			
CONS 660 - Effective Conservation Leadership	Credits: 3			
CONS 665 - Conservation Conflict Resolution	Credits: 3			
Conservation Methods (6 credits)				
At least 6 credits are required in relevant experimental methods, statistics or conservation techniques courses. Suggested courses	statistics or conservation	ı techniques cours	es. Sug	gested courses
include:				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
EVPP 555 - Lab in Waterscape Ecology	Credits: 1			
CONS 620 - Spatial Ecology, Geospatial Analysis & Remote Sensing for Conservation	Credits: 3			
CONS 625 - Statistics for Ecology and Conservation Biology	Credits: 3			
Seminar (1 credit)				
At least 1 credit on an appropriate topic is required:				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
EVPP 692 - Master's Seminar in Environmental Science and Public Policy	Credits: 1			
Research (1-6 credits)				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
Project Option:				

At least 1 credit of EVPP 798 - Master's Research Project in	Credits: 1-3		
Environmental Science and Public Policy		******	
Thesis Option:			
At least 3 credits of EVPP 799 - Master's Thesis in	Credits: 1-6		
Environmental Science and Public Policy			

Electives

credits. If necessary, students take additional, relevant, elective courses, approved by the supervisory committee to bring the total to 33

Degree with COSP Concentration Total: 33 credits

Earth Surface Processes and Environmental Geochemistry Concentration (ESEG)

Science and Policy, MS with an earth science geology theme. This concentration offers a specific research focus in the earth science area and is designed for students desiring an Environmental

student's degree program and be developed in close consultation with the advisor and the committee members. The advisor and thesis committee approve the coursework program individually for each student. of 33 graduate credits distributed in the categories listed below. Course selection should support the research component of the Requirements may be fulfilled by completing courses from a variety of academic units at Mason. The program requires a minimum

Natural Sciences (16 credits)

Students select at least one course (totaling 10 of the 16 required credits) from each of the following areas: Soils science, hydrogeology, and geochemistry.

The remaining courses (6 credits) may be chosen from a list of applicable EVPP, CHEM, and GEOL graduate courses, including:

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Course Name	Credits:	Term Taken	Gra	Gen Ed	
			de		L
EVPP 503 - Field Mapping Techniques	Credits: 3				
EVPP 505 - Selected Topics in Environmental Science	Credits: 0-4				لـــــا
EVPP 543 - Tropical Ecosystems	Credits: 4				
EVPP 550 - Waterscape Ecology and Management	Credits: 3				
					1

EVPP 563 - Coastal Morphology and Processes	Credits: 4
EVPP 577 - Biogeochemistry: A Global Perspective	Credits: 3
EVPP 607 - Fundamentals of Ecology (is required for those	Credits: 3
students without previous coursework in ecology and can be	
included with the 6 credits)	
EVPP 610 - Bioremediation: Theory and Applications	Credits: 3
EVPP 643 - Microbial Ecology	Credits: 4
EVPP 745 - Environmental Toxicology	Credits: 3
CHEM 633 - Chemical Thermodynamics and Kinetics	Credits: 3
CHEM 651 - Environmental Chemistry of Organic Substances	Credits: 3
CHEM 728 - Introduction to Solid Surfaces	Credits: 3
GEOL 500 - Selected Topics in Modern Geology	Credits: 1-3
GEOL 501 - Selected Topics in Modern Geology	Credits: 1-3
GEOL 601 - The Lithosphere	Credits: 3

Public Policy (6 credits)

planning. - EVPP 608 is required for students with limited previous coursework in the social sciences and can be included within the 6 credits. At least 6 credits are required in environmental law, human dimension of global change, environmental ethics, human ecology, or

Methods (6 credits)

At least 6 credits are required in remote sensing, GIS, statistics, instrumentation, or modeling.

Seminar (1 credit)

At least 1 credit on an appropriate topic is required:

Course Name	Credits:	Term Taken	Gra	Gen Ed
			de	
EVPP 692 - Master's Seminar in Environmental Science and	Credits: 1			
Public Policy				
Research (1-6 credits)				

Course Name	Credits:	Term Taken	Gra de	Gen Ed
Project Option:				
At least 1 credit of EVPP 798 - Master's Research Project in	Credits: 1-3			
Environmental Science and Public Policy				
Thesis Option:				
At least 3 credits of EVPP 799 - Master's Thesis in	Credits: 1-6			
Environmental Science and Public Policy				

Electives

If necessary, students take additional elective courses to bring the total to 33 credits

Degree with ESEG Concentration Total: 33 credits

Environmental Biocomplexity Concentration (EVBC)

systematics. an environmental biocomplexity theme encompassing the disciplines of population genetics, microbial ecology, and/or molecular The environmental biocomplexity concentration is designed for students desiring an Environmental Science and Policy, MS with

thesis committee approve the coursework program individually for each student. student's degree program and be developed in close consultation with the advisor and the committee members. The advisor and of 33 graduate credits distributed in the categories listed below. Course selection should support the research component of the Requirements may be fulfilled by completing courses from a variety of academic units at Mason. The program requires a minimum

mastery of experimental techniques. Students are encouraged to complete at least 1 credit of directed studies (EVPP 693) as a laboratory rotation to enhance their

Natural Sciences (6 credits)

genetics, and population biology. genetics, molecular biology, molecular systematics, molecular evolution, microbial ecology, microbial diversity, quantitative At least 6 credits are required in courses that can be drawn from offerings in ecology, biogeochemistry, biochemistry, population

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	Course Name	
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EVPP 607 - Fundamentals of Ecology (is required for those Credits: 3	its: 3		
students without previous coursework in ecology and can be		***************************************	
included within the 6 credits)			
Public Policy (6 credits)			
At least 6 credits are required in environmental law, human ecology, environmental ethics, patent law, or legal and ethical issues in	nvironmental ethics, patent l	law, or legal a	and ethical issues in
scienceEVPP 608 is required for students with limited previous coursework in the social sciences and can be included within the 6 credits	in the social sciences and can l	be included wi	thin the 6 credits.

Methods and Statistics (9 credits)

molecular methods, or phylogenetic methods. At least 9 credits are required in statistics, bioinformatics, information systems, instrumental analysis, microbiological techniques,

Seminar (1 credit)

At least 1 credit on an appropriate topic is required:				
Course Name	Credits:	Term Taken	Gra	Gen Ed
			de	
EVPP 692 - Master's Seminar in Environmental Science and Public Policy	Credits: 1			
Research (1-6 credits)				

Research (1-6 credits)				
Course Name	Credits:	Term Taken		Gen Ed
			de	
Project Option:				
At least 1 credit of EVPP 798 - Master's Research Project in	Credits: 1-3			
THE PROPERTY OF STREET WITH A WARE A CAREY				
Thesis Option:				
At least 3 credits of EVPP 799 - Master's Thesis in	Credits: 1-6			
Environmental Science and Public Policy				
Flectives				

If necessary, students take additional electives to bring the total to 33 credits

Degree with EVBC Concentration Total: 33 credits

Environmental Management Concentration (EVMG)

science degree. master of public administration degree program with the scientific knowledge and understanding normally found in a master of The environmental management concentration combines the managerial and administrative skills developed in a traditional

Students must complete 37 credits for the environmental management concentration. Students in this concentration have the time students can take six semesters. Coursework must include the following: graduate program director as their advisor upon admission. Full-time students can complete this degree in three semesters; part-

SOCI 636 - Statistical Reasoning Organizations PUAD 502 - Administration in Public and Nonprofit Course Name PUAD 511 - Problem Solving and Data Analysis GGS 579 - Remote Sensing GGS 553 - Geographic Information System GGS 550 - Geospatial Science Fundamentals EVPP 650 - Environmental Analysis and Modeling And one of the following methods courses: PUAD 540 - Public Policy Process EVPP 642 - Environmental Policy EVPP 641 - Environmental Science and Public Policy EVPP 638 - Corporate Environmental Management and Policy Core Courses (18-19 credits) Environmental Law (3 credits) Credits: 3 Credits: 3 Credits: 3 Credits: 3 Credits: 3 Credits: 4 Credits: 3 Credits: 3 Credits: 3 Credits: 3 Credits: Credits: 3 Term Taken Gra de Gen Ed

At least 3 credits are required, chosen from the following:				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
EVPP 670 - Environmental Law	Credits: 3			
CEIE 556 - Environmental Law	Credits: 3			
PRLS 501 - Introduction to Natural Resources Law	Credits: 3			
Field Ecology (4 credits)				
At least 4 credits are required, chosen from the following:				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
EVPP 550 - Waterscape Ecology and Management	Credits: 3			
EVPP 555 - Lab in Waterscape Ecology	Credits: 1			
Or				
EVPP 646 - Wetland Ecology and Management	Credits: 3			
EVPP 647 - Wetland Ecology Lab and Field	Credits: 1			
or other approved 4-credit field ecology course				
Capstone (3 credits)				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
EVPP 677 - Applied Ecology and Ecosystem Management	Credits: 3			
Electives (9 credits)				
Students may choose 9 credits (or more) to complete 37 credits from the following	from the following list c	list of approved electives. Other courses may be	s. Othe	ਭਾ courses may b
used subject to approval of the graduate program director.				
Course Name	Credits:	Term Taken	Gra de	Gen Ed
EVPP 524 - Introduction to Environmental and Resource Economics	Credits: 3			

	Credits: 3	PUAD 646 - Program Evaluation
	Credits: 3	PUAD 645 - Policy Analysis
	Credits: 3	PUAD 622 - Program Planning and Implementation
	Credits: 3	PUAD 615 - Administrative Law
	Credits: 3	PUAD 509 - Justice Organizations and Processes
		as part of the core courses above)
	Credits: 3	GGS 550 - Geospatial Science Fundamentals (only if not taken
	Credits: 3	CLIM 690 - Scientific Basis of Climate Change
	Credits: 3	EVPP 675 - Environmental Planning and Administration
	Credits: 4	EVPP 650 - Environmental Analysis and Modeling
	Credits: 3	EVPP 646 - Wetland Ecology and Management
	Credits: 3	EVPP 638 - Corporate Environmental Management and Policy
Audicatoria	Credits: 3	EVPP 635 - Environment and Society
	Credits: 3	EVPP 630 - Methods and Logic of Social Inquiry
	Credits: 3	EVPP 628 - Environment and Development in Africa
	Credits: 3	EVPP 627 - Environmental Policy in Latin America
	Credits: 3	EVPP 626 - Environment and Development in Asia
	Credits: 3	EVPP 622 - Management of Wild Living Resources
	Credits: 3	EVPP 621 - Overview of Biodiversity Conservation
	Credits: 3	EVPP 620 - Development of U.S. Environmental Policies
		social sciences)
		required for those students with limited previous coursework in the
	Credits: 3	EVPP 608 - Introduction to Environmental Social Science (is
		students without previous coursework in ecology)
	Credits: 3	EVPP 607 - Fundamentals of Ecology (is required for those
	Credits: 3	EVPP 550 - Waterscape Ecology and Management
	Credits: 3	EVPP 525 - Economics of Human/Environment Interactions

PUAD 657 - Association Management	Credits: 3
PUAD 729 - Issues in Public Management	Credits: 3
MBA 623 - Marketing Management	Credits: 0-3
MBA 712 - Project Management	Credits: 0-3
MBA 724 - Marketing Communications	Credits: 0-3
MBA 725 - Leadership	Credits: 0-3

Degree with EVMG Concentration Total: 37 credits

place of a required one. Note: In special cases, the graduate program director may permit at his or her discretion, the substitution of an alternative course in

Environmental Science and Policy Concentration (EVSP)

approve the coursework program individually for each student. developed in close consultation with the advisor and the supervisory committee members. The advisor and supervisory committee environmental policy issues. Course selection should support the research component of the student's degree program and be of 33 graduate credits distributed in the categories below and provide a breadth of knowledge appropriate for addressing current creative approach to the development of curricula that reside in the general field of environmental science and policy. Requirements may be fulfilled by completing courses from a variety of academic units at Mason. The program requires a minimum The environmental science and policy concentration is a home for a broad array of research foci. It encourages an independent and

individually for each student consultation with the advisor and committee members. The advisor and thesis committee approve the coursework program Course selection should also support the research component of the student's degree program and should be developed in close

Natural Sciences (6 credits)

At least 6 credits are required in biology, geology, geography, chemistry, or environmental engineering

• EVPP 607 - Fundamentals of Ecology Credits: 3 (is required for those students without previous coursework in ecology and can be included within the 6 credits)

Public Policy (6 credits)

At least 6 credits are required in environmental law, human ecology, environmental ethics, planning, or public affairs. -EVPP 608 is

Environmental Science and Public Policy Thesis Option: statistics is highly recommended. Notes: If necessary, students take additional electives to bring the total to 33 credits Electives **Environmental Science and Public Policy** Course Name Public Policy Course Name Degree with EVSP Concentration Total: 33 credits At least 3 credits of EVPP 799 - Master's Thesis in At least 1 credit of EVPP 798 - Master's Research Project in Project Option: Research (1-6 credits) EVPP 692 - Master's Seminar in Environmental Science and At least 1 credit on an appropriate topic is required: Seminar (1 credit) At least 6 credits are required in statistics, remote sensing, information systems, instrumental analysis, or modeling. A course in Methods and Statistics (6 credits) required for students with limited previous coursework in the social sciences and can be included within the 6 credits. Degree Total: 33-37 credits Credits: 1-6 Credits: 1-3 Credits: Credits: 1 Credits: Term Taken Term Taken de Gra de Gra Gen Ed Gen Ed