



DONALD BREN SCHOOL OF ENVIRONMENTAL SCIENCE & MANAGEMENT

**EXAMPLE PROGRAM OF STUDY—POLLUTION PREVENTION AND REMEDIATION
CLASS OF 2010**

This is only an example to help guide you in developing your own POS. The specific courses that you include will differ depending on your background, interests, and goals!

STUDENT:		PERM #:	
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SPECIALIZATION:	POLLUTION PREVENTION AND REMEDIATION
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CORE COURSES:

COURSES	SUBSTITUTION	UNITS	GRADE
ESM 200 Case Studies		0.5	
ESM 201 Ecology of Managed Ecosystems		4	
ESM 202 Env. Biogeochemistry		4	
ESM 203 Earth System Science		4	
ESM 204 Econ Env. Manage		4	
ESM 206 A,B Stats & Data Analysis		4	
ESM 207 Env. Law & Policy		4	
ESM 210 Business and the Env.		4	
ESM 241 Env. Politics and Policy		2	
ESM 251 Intro to Env. Policy Analysis		2	

GROUP PROJECT	UNITS	GRADE
ESM 401A (Spring Quarter Yr 1)	4	
ESM 401B (Fall Quarter)	4	
ESM 401C (Winter Quarter)	4	

TOTAL CORE UNITS	44.5
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INDIVIDUAL PROGRAM OF STUDY

MINIMUM NUMBER OF UNITS: **36.5**

APPROVAL FOR PROGRAM OF STUDY:

Faculty Advisor Specialization	Trish Holden	Signature:	Date:
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TOTAL POS UNITS (NOT TO EXCEED 81 - # CORE UNITS + 4.5) = 41	36.5-41
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This does not mean you cannot take more than this. It just means that you only include in the POS section the minimum acceptable set of coursework to develop adequate depth in your specialization.

NUMBER OF COURSES:	1-2	Of	3
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SECTION 1: POLLUTION SCIENCE

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 219	Microbial Processes in the Environment	4	
ESM 219L	Microbial Processes in the Environment Laboratory	1	

Chem 123	Fundamentals of Environmental Chemistry	3	
Geog 114A/AL	Soil Science	5	

TOTAL UNITS:	3-5
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NUMBER OF COURSES:	1	Of	4
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SECTION 2: TRANSPORT OF POLLUTANTS

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 222	Fate and Transport of Pollutants	4	
ESM 232	Environmental Modeling	4	
Geog 246	Earth Systems Science: Hydrologic Modeling	5	
Geol 169	Tracer Hydrology	4	

TOTAL UNITS:	4-5
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NUMBER OF COURSES:	1	Of	3
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SECTION 3: DISTRIBUTION OF POLLUTANTS

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 263	GIS	4	
Geog 276	Geographic Time Series Analysis	3	
Geog 277	Spatial Environmental Modeling	4	

TOTAL UNITS:	3-4
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NUMBER OF COURSES:	1-2	of	2
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SECTION 4: CONSEQUENCES OF POLLUTION

COURSE #:	COURSE TITLE:	UNITS	GRADE
ENVST 120	Toxics in the Environment	4	

TOTAL UNITS:	4-8
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NUMBER OF COURSES:	3-4	of	4
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SECTION 5: POLLUTION REMEDIATION

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 214	Bioremediation	4	
ESM 214	Bioremediation Laboratory	1	
ESM 223	Mgmt of Soil and Ground Water Quality	4	
ESM 223L	Mgmt of Soil and Ground Water Quality Laboratory	1	

TOTAL UNITS:	5-10
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NUMBER OF COURSES:	1-2	of	4
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SECTION 6: POLLUTION PREVENTION

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 282	Industrial Ecology	4	
ESM 286	Environmental Risk: Assessment, Valuation and Mgmt	4	
ESM 289	Green Supply Chain Mgmt	4	
Ch E 212	Risk Assessment and Management	4	

TOTAL UNITS:	4-8
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NUMBER OF COURSES:	1-2	of	4
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SECTION 7: ECONOMICS AND POLICY OF POLLUTION MANAGEMENT

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 245	Cost Benefit Analysis	4	
ESM 243	Env. Policy Analysis	4	
ESM 281	Corporate Environmental Management	4	
ESM 595, 296, 297, or 299	Special Topics	2	

TOTAL UNITS:	4-6
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Core + POS = Total Units (Minimum = 81)	