



DONALD BREN SCHOOL OF ENVIRONMENTAL SCIENCE & MANAGEMENT

**EXAMPLE PROGRAM OF STUDY—WATER RESOURCES MANAGEMENT
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! In addition, you may have more, less and/or different sections and more or less classes in each section****

STUDENT:		PERM #	
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SPECIALIZATION:	WATER RESOURCES MANAGEMENT (EMPHASIS ON WATER QUANTITY)
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CORE COURSES:

LECTURE 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 & Policy		2	
ESM 251 Intro to 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: **81- #CORE UNITS = 36.5**

APPROVAL FOR PROGRAM OF STUDY

Faculty Advisor for Specialization	Christina Tague	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 are only going to include in the POS section the minimum acceptable set of coursework to develop adequate depth in your specialization.****

NUMBER OF COURSES:	2	of	3
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SECTION 1: REQUIRED COURSES FOR SPECIALIZATION

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 234	River Systems	4	
ESM 235	Watershed Analysis	4	
Geol 173 or Geog 246	Groundwater Hydrology or Advanced Hydrologic Modeling	4	

TOTAL UNITS:	8
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NUMBER OF COURSES:	2	of	8
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SECTION 2: SCIENTIFIC DEPTH

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 222	Fate and Transport of Pollutants	4	
ESM 236	The Mountain Snowpack	3	
ESM 237	Climate Change Impacts on Hydrology and Ecology	4	
ESM 595	Group Studies: River Restoration	2	

TOTAL UNITS:	5-8
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NUMBER OF COURSES:	2	of	5
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SECTION 3: TECHNICAL TOOLS

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 232	Environmental Modeling	4	
ESM 261	Management of Scientific Data	4	
ESM 263	Geographical Information Systems	4	
ESM 266	Remote Sensing	4	

TOTAL UNITS:	8
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NUMBER OF COURSES:	4	of	9
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SECTION 4: PLANNING AND MGMT OF WATER AND RELATED RESOURCES

COURSE #:	COURSE TITLE:	UNITS	GRADE
ESM 223	Management of Soil and Water Quality	4	
ESM 224	Sustainable Watershed Quality Mgmt	4	
ESM 225	Water Policy	4	
ESM 242	Natural Resource Economics and Policy	4	
ESM 245	Cost-Benefit Analysis	4	
ESM 275	Principles and Practice of Env Planning	4	
ESM 282	Industrial Ecology	4	
Geog 208	Water Resources Systems Analysis	4	

TOTAL UNITS:	16
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ADDITIONAL COURSEWORK

COURSE #:	COURSE TITLE:	UNITS