

Environmental Policy Analysis and Planning Major Requirements

English Composition and Public Speaking				3 classes	11-12 units
	UWP 1 or ENL 3 Expository Writing or Intro. To Literature			(A/P can count for one)	4 units
	UWP 101 Advanced Composition or 102A-G Writing in the Disciplines or UWP 104A-E Writing in the Profession (or take composition exam)				4 units
	CMN 1 or CMN 3 Intro. to Public Speaking or Interpersonal Communication or DRA 10 (3) Intro. to Acting				3-4 units
Preparatory Subject Matter				13 classes	50-56 units
Select 1	BIS 10 (4)	I	General Biology		1 class required in Biology 4 units
	BIS 10V (4)	III	General Biology (web virtual class)		
	BIS 2A (4)	I, II, III	Introduction to Biology		
Take 2	CHE 2A (5)	I, II	General Chemistry	placement exam	2 classes required in Chem. 10 units
	CHE 2B (5)	II, III	General Chemistry	2A or 2AH	
OR	CHE 2AH (5)	I	Honors General Chemistry	placement exam, MAT 21A (or concurrently)	
	CHE 2BH (5)	II	Honors General Chemistry	2A or 2AH, MAT 21B (or concurrently)	
Select 1	PLS 21 (3)	I, II, III	Application of Computers in Technology		1 class required in Comp. Sci. 3-4 units
	SAS 18 (3)	III	GIS and Society		
	ECS 10 (4)	I, II, III	Basic Concepts of Computing		
	ECS 30 (4)	I, II, III	Intro. To Programming & Prob. Solving	MAT 16A or 21A (or concurrently)	
Both req.	ECN 1A (4)	I, II, III	Prin. of Microeconomics		2 classes required in Econ. 8 units
	ECN 1B (4)	I, II, III	Prin. of Macroeconomics		
Select 1	ANS 1 (4)	I	Domestic Animals and People		1 class required in Env. Sci. 3-5 units
	BIS 2B (5)	I, II, III	Introductory Biology	BIS 2A	
	GEL 1 (4)	I, II, III	The Earth		
	HYD 124 (4)	III	Plant-Water-Soil Relationships	one upper-div. class in SSC or PLB	
	SSC 100 (5)	I	Prin. of Soil Science	CHE 2A-B, PHY 1A-B, BIS 2A, GEL 50	
Req.	ESP 1 (4)	I	Environmental Analysis	sophoremore standing, UWP 1 or ENL 3	1 class req. in Env. Studies 4 units
Select 1 pair	MAT 16A-B (6)	I, II, III	Short Calculus	placement exam	2 classes req. in Math 6-8 units
OR	MAT 17A-B (8)	I, II, III	Calculus for Biology and Medicine	placement exam	
OR	MAT 21A-B (8)	I, II, III	Calculus	placement exam	
Select 1	PHY 1A (3)	I	Prin. Of Physics		1 Class req. in Physics 3 units
	PHY 7A (4)	I, II, III	General Physics	MAT 16B, 17B or 21B (or concurrently)	
Req.	POL 1 (4)	I, II, III	American Natl. Gov.		1 Class req. in Pol. Sci. 4 units
Select 1	STA 13 (4)	I, II, III	Elem. Statistics		1 Class req. in Stats. 3-4 units
	STA 32 (3)	II, III	Basic Stat. Anal. Through Comp.	MAT 16B or 21B	
	STA 102 (4)	I, III	Intro. To Probability Modeling & Stat. Infer.	upper div. standing	

General Education RequirementsPlease go to the General Catalog for details <http://registrar.ucdavis.edu/UCDWebCatalog/>

Note: students matriculated as first-year students Fall 2011 and after need to complete the revised General Education (GE 3) requirements

Depth Subject Matter*				11 classes	44 units
Select 1	ESP 172 (4) POL 187 (4)	I III	Public Lands Management Administrative Theory	ECN 1A POL 1 and upper div. standing	4 units
Req.	ESP 110 (4)	II	Prin. of Env. Sci.	PHY 1A or 7A, MAT 16B or 21B, BIS 2A	4 units
Req.	ESP 178 (4)	II	Applied Research Methods	STA 103 or SOC 106 or equivalent	4 units
Req.	ESP 161 (4)	III	Environ. Law	upper div. standing and one course in Env. Sci.	4 units
Select 1	ESP 171 (4) ESP 179 (4)	III II	Urban and Regional Planning Env. Impact Assessment	ESP 1, one course in Soc. Sci. and one in Env. Sci. upper div. standing nad one course in Env. Sci.	4 units
Select 1	SOC 106 (4) STA 100 (4) STA 103 (4) STA 108 (4) ARE 106 (4)	II, III I, II, III I, II, III I, II, III I, II, III	Intermediate Social Stat. Applied Statistics for Bio. Sci. Applied Statistics for Bus. & Econ. Applied Stat. Meth.: Regression Analysis Quantitative Methods in Ag. Econ	SOC 46B or STA 13 MAT 16B or equivalent STA 13, 32, or 102 and MAT 16A-B STA 13, 32, or 102 ARE 100A or STA 103	4 units
Select 1	ARE 100A (4) ECN 100 (4)	I, II, III I, II, III	Intermediate Micro.:Theory of Prod. & Cons Intermediate Micro Theory	ECN 1A, 1B, and MAT 16B ECN 1A, 1B, and MAT 16B with a grade of C- or better	4 units
Select 1	ARE 176 (4) ESP 175 (4)	I III	Environmental Econ. Natl. Resource Econ.	ARE 100B or ECN 100 ARE 100B or ECN 100	4 units
Senior Capstone Classes					
Req.	ESP 168A (5)	I	Methods of Env. Policy Evaluation	STA 13, ECN 100 or ARE 100A, MAT 16B or 21B, ESP 1	5 units
Req.	ESP 160 (4)	varies	Env. Decision Making	POL 1, ECN 1A, intermediate STA, ESP 172	4 units
Req.	ESP 164 (3)	varies	Ethical Issues in Env. Policy	ESP 160, 168A, seniors	3 units

*Students must take these units and those in their area of specialization on a letter grade basis, and must attain an overall GPA of 2.0 or higher.

CHOOSE 1 AREA OF SPECIALIZATION FROM THE FOLLOWING 5 CHOICES**Advanced Policy Analysis****5 classes required***Political Institution (3-4 units)*

Select 1	POL 100 (4)	varies	Local Gov. and Politics	POL 1 and upper div. standing
	POL 104 (4)	varies	CA State Gov. and Politics	POL 1 and upper div. standing
	POL 105 (4)	varies	Legislative Process	POL 1
	POL 120 (4)	varies	Theories of Int'l Politics	POL 3 and upper div. standing
	POL 122 (4)	varies	Int'l Law	POL 3
	POL 155 (4)	varies	Judicial Process and Behavior	POL 1 and upper div. standing
	ESP 169 (3)	III alt. yr	Water Policy & Politics	ECN 1A or POL 1

Political Behavior (4)

Select 1	POL 162 (4)	varies	Elections Voting Behaviors	POL 1 and upper div. standing
	POL 164 (4)	varies	Public Opinion	POL 1 or 5 and upper div. standing
	POL 170 (4)	varies	Political Psychology	POL 51 or consent of instructor

Environmental Justice (4)

Select 1	POL 124	varies	Politics of Global Inequality	POL 3 and upper div. standing
	POL 126	varies	Ethnic Self-Determination Int'l Cor	POL 3
	AMS 101G	varies	Special Topics (check the topic if it's about environmental justice you may take it)	

Geographic Info. Systems (4-5)

Select 1	ABT/LDA 150 (4)	I	Intro to GIS	PLS 21 or equivalent computer science background
	ESM 186/L (5)	II	Environmental Remote Sensing	MAT 16B and PHY 7C or 9B and upper div. standing

Policy Modeling (4)

Select 1	ECI 153	I	Deterministic Optimization & Design	MAT 21C, 22A, and computer programming
	ARE 106	I, II, III	Quantitative Methods in Ag. Econ.	ARE 100A and STA 103
	ECN 130	I, II, III	Public Microeconomics	ECN 100

City and Regional Planning**5 classes required***Land Economics (3-4)*

Select 1	ESP 169 (3)	III, alt yr	Water Policy and Politics	ECN 1A or POL 1
	ESP 171 (4)	III	Urban and Regional Planning	ESP 1 and 1 course in Soc. Sci. and 1 course in Env. Sci.

Geographic Info. Systems (4-5)

Select 1	ABT/LDA 150 (4)	I	Intro to GIS	PLS 21 or equivalent computer science background
	ESM 186/L (5)	II	Environmental Remote Sensing	MAT 16B and PHY 7C or 9B and upper div. standing

Transportation Planning (3-4)

Select 1	ECI 165 (3)	I, alt yr	Transportation Policy	ECN 1A
	ESP 163 (4)	I, alt yr	Energy and Env. Aspect of Trans	ECN 1A and ECI 162

Environmental Impact Assessment (4)

Select 1	SSC 118 (4)	III	Soils in Land Use and the Env.	SSC 100 or instructor consent
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ESP 179 (4)	II	Env. Impact Assessment	upper div. standing and 1 course in Env. Sci.
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Urban Politics & Comm. Dev. (4-5)

Select 1	POL 100 (4)	varies	Local Gov. and Politics	POL 1 and upper div. standing
	CRD 152 (4)	I	Community Development	CRD 1 or 151, SOC 2, ANT 2, ASA 100, CHI 132, GEO 5, or AAS 101
	CRD 156 (5)	II	Community Economic Development	PLS 21 or ECS 15 and CRD 152
	CRD 171 (4)	III	Housing and Social Policy	
	AHI 168 (4)	varies	Great Cities	

Energy Policy**5 classes required***Energy Policy (4)*

ESP 167 (4)	III	Energy Policy	ECN 1A, MAT 16B or instructor consent
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Energy Technology (7)

Take both	ENG 160	I	Env. Physics & Society	PHY 9D, 5C or 10 or 1B and MAT 16B
	ECI 143 (4)	I	Green Eng. Design & Sustainability	upper div. standing

Energy Resources (3)

Select 1	GEL 130 (3)	III, alt yr	Non-Renewable Natural Resources	GEL 1
	ESM 131 (3)	II	Air as a Resource	CHE 10

Economics of Energy (4)

ESP 163 (4)	I, alt yr	Energy and Env. Aspects of Trans	ECN 1A and ECI 162
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Environmental Sciences**5 classes required**

Students must consult with the major adviser to identify an emphasis within this specialization and to select suitable courses. Possible areas of emphasis are biological conservation, pollutants in the environment, ecology, planning in the presence of environmental hazards, sustainable design.

Transportation Planning**5 classes required***Transportation Planning (3-4)*

Select 1	ECI 165 (3)	I, alt yr	Transportation Policy	ECN 1A and ENG 106 rec.
	ESP 163 (4)	I, alt yr	Energy and Env. Aspects of Trans	ECN 1A and ECI 162

Analytic Methods (4)

Select 1	ESP 167 (4)	III, alt yr	Energy Policy	ECN 1A and MAT 16B or instructor consent
	ESP 171 (4)	III	Urban and Regional Planning	ESP 1, 1 course in Soc. Sci. and 1 course in Env. Sci.

Geographic Info. Systems (4-5)

Select 1	ABT/LDA 150 (4)		Intro to GIS	PLS 21 or equivalent computer science background
	ESM 186/L (5)	II	Environmental Remote Sensing	MAT 16B and PHY 7C or 9B and upper div. standing

Transportation Economics (4)

ECN 145 (4)	II	Transportation Economics	ECN 100, MAT 16B and STA 13
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Water Quality		5 classes required		
<i>Water & Land Policy (3)</i>				
	ESP 169 (3)	III, alt yr	Water Policy and Politics	ECN 1A or POL 1
<i>Calif. Water (3)</i>				
Select 1	ESM 121 (3)	I	Water and Society	PHY 10 or GEL 1
	HYD 150 (3)	II	Water Law	ESM 100 or 121 or instructor consent
<i>Watershed Analysis (3-4)</i>				
Select 1	HYD 141 (4)	I	Physical Hydrology	PHY 9B, MAT 21B, HYD 100 rec.
	HYD 143 (3)	II	Hydro Processes in Ecosystems	HYD 141 or ESM 100
	GEL 134 (3)	II	Env. Geology and Land Use Planni	GEL 1 or 50
	SSC 118 (4)	III	Soils in Land Use and the Env.	SSC 100 or instructor consent
<i>Aquatic Systems (3-4)</i>				
Select 1	ESP 151 (4)	III	Limnology	BIS 2A and junior standing
	ESP 155 (4)	III	Wetland Ecology	ESP 100 or PLB 117, ESP 110 or 151 rec.
	ESM 100 (4)	III	Principles of Hydrologic Science	CHE 2B, MAT 16B, PHY 7A or 9A
	WFC 120 (3)	I	Biology & Conservation of Fishes	BIS 2A-B-C
<i>Geographic Info. Systems (4-5)</i>				
Select 1	ABT/LDA 150 (4)		Intro to GIS	PLS 21 or equivalent computer science background
	ESM 186/L (5)	II	Environmental Remote Sensing	MAT 16B and PHY 7C or 9B and upper div. standing