

**ENVIRONMENTAL POLICY ANALYSIS & PLANNING (EPAP)**

	<b>English Composition Requirement (this also covers College requirements)</b>	subject A (see p. 3)	<b>3 classes</b>	<b>11-12 units</b>
	UWP 1 or ENL 3	(A/P can count for one)		4 units
AND	UWP 101 or 102A or UWP 104A-E series	(or take Comp. test)		4 units
AND	CMN 1 or 3 (4) Intro. To Public Speaking or Interpersonal Comm or DRA 10 (3) Intro. To Acting			3-4 units

	<b>Preparatory Subject Matter</b>		<b>13 classes</b>	<b>50-56 units</b>
<b>Select 1</b>	BIS 10 or 10V (4) General Biology		1 class req. in Bio. Sci.	4-5 units
OR	BIS 1 or 2A (4-5) Introductory Biology	(Prereq: Chem 2B-concurrent o.k.)		
<b>Select 2</b>	CHE 2A (5) I, II General Chemistry		2 classes req. in Chem.	10 units
	CHE 2B (5) " "	(Prereq: 2A or 2H)		
OR	CHE 2AH (5) I, II Honors	(Prereq: Math 21A-concurrent o.k., or consent)		
	CHE 2BH (5) " "	(Prereq: 2A or 2H & MAT 21B-concurrent o.k.)		
<b>Select 1</b>	<b>PLS 21 (3)</b> Applications of Microcomputers in Ag.	(none)	1 class req. in Comp. Sci.	3-4 units
	<b>SAS 18 (3) III</b> GIS and Society	(none)		
OR	ECS 10 (4) II Basic Concepts of Computing			
	ECS 30 (4) Intro. Top Programming & Prob. Solving	(Prereq: 16A or 21A)		
<b>Both req.</b>	ECN 1A (4) Prin. of Microeconomics		2 classes req. in Economics	8 units
	ECN 1B (4) Prin. of Macroeconomics			
<b>Select 1</b>	ANS 1 (4) I Domestic Animals and People		1 class req. in Env. Sci.	3-5 units
	BIS 1B or 2B (5) Introductory Biology	(Prereq: Chem 2B-concurrent o.k.)		
	GEL 1 (4) The Earth			
	HYD 124 (4) III Plant-Water-Soil Relationships	(Prereq: SSC 100 & 1 more in botany or plant physiology or consent)		
	PLB 12 (3) Plants & People	(Prereq: high school biology- formerly known as PLB 10)		
	SSC 100 (5) I Prin. of Soil Science	(Prereq: CHE 1A- 1B, PHY 1A-1B, BIS 1A. Also GEO 50, BIS 1C, CHE 8A rec.)		
<b>Req.</b>	ESP 1 (4) III Environmental Analysis	(Prereq: ENL 1, ECN 1A, BIS 1A, POL 1)	1 class req. in Env. Studies	4 units
<b>Select 2</b>	MAT 16A (3) Short Calculus		2 classes req. in Math	6-8 units
	MAT 16B (3) " (easier)	(Prereq: 16A or 21A)		
OR	MAT 21A (4) Calculus			
	MAT 21B (4) " (classical)	(Prereq: 21A)		
<b>Req.</b>	PHY 1A (3) I Prin. Of Physics	(Prereq: trig. or consent)	1 Class req. in Physics	3 units
<b>Req.</b>	POL 1 (4) American Natl. Gov.		1 Class req. in Pol. Sci.	4 units
<b>Select 1</b>	<b>STA 13 (4)</b> Elem. Statistics		1 Class req. in Stats.	3-4 units
OR	STA 32 (3) II, III Basic Stat. Anal. Through Comp.	(Prereq: 16B or 21B, ability to program comp. in Pascal or sim.)		
OR	STA 102 (4) I, III Intro. To Probability Modeling & Stat. Infer.	(Prereq: upper div. standing)		

**Breadth/General Education**

to include 12 units of humanities and/or Civilization and Culture. See advisor for more details-many of your required classes do also give credit for general education.

<b>Depth Subject Matter*</b>		<b>11 classes</b>	<b>43-44 units</b>
<b>Select 1</b> OR	<b>ESP 172 (4) I</b> Public Lands Management <b>POL 187 (4) III</b> Administrative Theory	(Prereq: POL 1) (Prereq: none)	4 units
<b>Req.</b>	ESP 110 (4) II Prin. of Env. Sci.	(Prereq: PHY 1A or 7A, MAT 16B or 21B, and BIS 1A )	4 units
<b>Req.</b>	ESP 178 (4) II Applied Research Methods	(Prereq: STA 103 or SOC 106 or the equiv.)	4 units
<b>Select 1</b>	ESP 161 (4) III Environ. Law	(Prereq: upper div., & some environmental courses helpful)	4 units
<b>Select 1</b>	ESP 171 (4) III Urban and Regional Planning ESP 179 (4) II Env. Impact Report.	(Prereq: ESP 1, 1 in Soc. Sci., and 1 in Env. Sci.) (Prereq: u. div., good reading and writing skills)	3-4 units
<b>Select 1</b> OR OR OR OR	SOC 106 (4) II, III Intermediate Social Stat. STA 100 (4) Applied Statistics for Bio. Sci. <b>STA 103 (4)</b> Applied Statistics for Bus. & Econ. STA 108 (4) Applied Stat. Meth.: Regression Analysis ARE 106 (4) Quantitative Methods in Ag. Econ	(Prereq: 46B or STA 13 or the equiv.) (Prereq: MAT 16B or the equiv.) (Prereq: 13, 32, or 102 ) (Prereq: 13, 32, or 102 ) (Prereq: 100A and STA 103)	4 units
<b>Select 1</b>	<b>ARE 100A (4)</b> Intermediate Micro.:Theory of Prod. & Consump. ECN 100 (4) Intermediate Micro Theory	(Prereq: ECN 1A, 1B, MAT 16B) (Prereq: 1A, 1B, MAT 16A-16B or 21A-21B with a C- or better)	4 units
<b>Select 1</b>	ARE 176 (4) II Environmental Econ. <b>ESP 175 (4) III</b> Natl. Resource Econ.	(Prereq: 100B or ECN 100) (Prereq: ARE 100B, or ECN 100 or equiv.)	4 units
<b>Senior Capstone Classes</b>			
<b>Req.</b>	ESP 168A (5) I Meth. of Env. Policymak.	(STA 13, ECN 100 or ARE 100A, MAT 16 / 21B, ESP 1 & u. div.)	5 units
<b>Req.</b>	ESP 160 (4) II Env. Decision Making	(Prereq: POL1, ECN 1A, Int. STA., ESP 1 & 172 )	4 units
<b>Req.</b>	ESP 164 (3) III Ethical Issues in Env. Policy	(Prereq: 160, 168A; EPAP seniors only or con.)	3 units
*Students must select courses in the Areas of Specialization that have not been taken in the Depth Subject Area			

**CHOOSE 1 AREA OF SPECIALIZATION FROM THE FOLLOWING 5 CHOICES****Advanced Policy Analysis** 5 classes req.*Political Instit. (3-4)*

POL 100 Local Govt. & Politics (4) not for 08-09  
 POL 104 CA State Govt. and Politics (4) not for 08-09  
 POL 105 The Legislative Process (4) II  
 POL 120 Theories of Intl Politics (4) II  
 POL 122 International Law (4) III  
 POL 155 Judicial Process & Behavior (4) II  
 ESP 169 Water Policy & Politics (3) not for 08-09

(Prereq: upp. div. or consent)  
 (Prereq: POL 1)  
 (Prereq: POL 1)  
 (Prereq: POL 3)  
 (Prereq: POL 3)  
 (Prereq: POL 1 and upp. div.)  
 (Prereq: ECN 1A or POL 1)

*Policy Modeling (4)*

ECI 153 Deterministic Optimization & Design  
 (Prereq: MAT 21C & 22A, comp. program., EAD 115 rec.)  
 ARE 106 Quan. Meth. in Agricultural Econ. (4) all  
 (Prereq: 100A & STA 103)  
 ECN 130 Public Microeconomics (4) all  
 (Prereq: 100, 104 or consent)

*Political Behavior (4)*

POL 162 Elections and Voting Behavior (4) I  
 POL 164 Public Opinion (4) I  
 POL 170 Political Psychology (4) II for 08-09

(Prereq: POL 1)  
 (Prereq: upp. div., POL 1 or 5, or consent)  
 (Prereq: POL 1)

*Environmental Justice (4)*

POL 124 Politics of Global Inequality (4) II, III  
 POL 126 Ethnic Self-Determination and Int. Conflict (4) III  
 AMS 101G Env. Justice (4) III

(Prereq: POL 3, upp. div., POL 123 rec.)  
 (Prereq: POL 3, ind. mtgs for papers)  
 class is offered under "new directions in Amer. Studies" (no prereqs.)

*Geographic Info. Systems (4-5)*

ABT/PLS 180 Introduction to GIS (5) I  
 ABT 181 Concepts & Meth. in GIS (4) II  
 ERS 186/186L Env. Remote Sensing and Lab (5 total) III

(Prereq: PLS 21 & 120 or equiv.)  
 (Prereq: ABT/PLS 180 or LDA 50 or equiv.)  
 (Prereq: MAT16B and PHY 7C or 9B.)

**City & Regional Planning** 5 classes req.*Land Economics (4)*

ESP 171 Urban Planning (4) III

(Prereq: ESP 1, one in Soc. Science and one in Env. Sci.)

*Geographic Info. Systems (4-5)*

ABT/PLS 180 Introduction to GIS (5) I  
 ABT 181 Concepts & Methods in GIS II  
 ERS 186/186L Env. Remote Sensing and Lab (5 total) III

(Prereq: PLS 21 & 120 or equiv.)  
 (Prereq: ABT/PLS 180 or LDA 50 or equiv.)  
 (Prereq: MAT16B and PHY 7C or 9B.)

*Env. Impact Assessment (3-4)*

SSC 118 Soils in Land Use & the Env. (4) III  
 (Prereq: SSC 100 or consent)  
 ESP 169 Water Policy & Politics (3) III not for 08-09  
 (Prereq: ECN 1A or POL 1)  
 ESP 179 Env. Impact Reporting (3) II  
 (Prereq: upper div.)

*Urban Politics & Comm. Dev. (4)*

AHI 168 Great Cities (4) not for 08-09  
 CRD 152 Community Development (4) I for 08-09  
 CRD 156 Community Econ. Dev. (4) II for 08-09  
 CRD 171 Housing and Social Policy (4) III  
 LDA 180L& 180M Special Topics in Land. Arch. (2) ea. II  
 POL 100 Local Govt. & Politics (4) not for 08-09

(none)  
 (Prereq: 1 or 151)  
 (Prereq: CRD 152 or consent)  
 (none)  
 (Prereq: upp. div. standing)  
 (Prereq: upp. div. or consent)

*Transportation Planning (3-4)*

ECI 165 Trans. Policy (3) I back 09-10  
 (Prereq: GEO 5, ECN 1A, or ENG 106 rec.)  
 ESP 163 Energy & Env. Aspects of Trans. (4) I  
 (Prereq: ECN 1A, ECI 162) back 08-09

<b>Energy Policy</b> 5 classes req.			
<i>Energy Policy (4)</i>			
ESP 167	Energy Policy (4) alt. years back 09-10	(Prereq: ECN 1A, MAT 16A, or consent)	ESP 163 Energy & Env. Aspects of Trans. (4) I (Prereq: ECN 1A, ECI 162) back 08-09
<i>Energy Technology (7)</i> should take both			
ENG 160	Env. Physics & Society (3) III	(Prereq: PHY & MAT 16B)	
ECI 143	Green Eng. Design & Sustainability (4) I	(Prereq: consent)	<b>*see advisor for other appropriate choices as not all courses offered each year.</b>
<i>Energy Resources (3)</i>			
GEL 130	Non-Renewable Nat. Res. (3) II	(Prereq: GEL 1)	not 07-08
ERS 131	Air as a Resource (3) III	(Prereq: CHE 10)	
<b>Environmental Sciences</b> 5 classes req.			
<b>*see advisor for appropriate choices</b>			
1)			4)
2)			5)
3)			
<b>Transportation Planning</b> 5 classes req.			
<i>Transportation Planning (3-4)</i>			<i>Air Quality (3)</i>
ECI 165	Trans. Policy (3) I back 09-10	(Prereq: GEO 5, ECN 1A, or ENG 106 rec.)	ERS 131 Air as a Resource (3) III
ESP 163	Energy & Env. Aspects of Trans. (4) I back 08-09	(Prereq: ECN 1A, ECI 162)	(Prereq: CHE 10)
<i>Analytic Methods (4)</i>			<i>Economics (4)</i>
ESP 167	Energy Policy (4) alt. years back 09-10	(Prereq: ECN 1A, MAT 16A, or consent)	ECN 145 Trans. Economics (4) II for 07-08
ESP 171	Urban Planning (4) III	(Prereq: ESP 1, one in Soc. Science and one in Env. Sci.)	(Prereq: ECN 100, MAT 16B, STA 13 or consent)
<i>Geographic Info. Systems (4)</i>			
ABT/PLS 180	Introduction to GIS (5) I	(Prereq: PLS 21 & 120 or equiv.)	
<b>Water Quality Plan.</b> 5 classes req.			
<i>Water &amp; Land Policy (4)</i>			<i>Aquatic Systems (3-4)</i>
ESP 169	Water Policy & Politics (3) III	(Prereq: ECN 1A or POL 1)	not for 08-09
<i>Calif. Water (3)</i>			ESP 151 Limnology (4) III (Prereq: BIS 1A/jr.)
ERS 121	Water & Society (3) I	(Prereq: PHY 10 or GEO 1)	ESP 155 Wetland Ecology (4) I (Prereq: 100 or PLB 117 req. 110 or 151 rec.)
HYD 150	Water Law (3) II		ERS 100 Principles of Hydrological Sci. (4) I not 08-09 (Prereq: CHE 2B, MAT 16B, PHY 7A or 9A)
<i>Watershed Analysis (3-4)</i>			WFC 120 Biology & Conservation of Fishes (3) I (Prereq: BIS 1B)
HYD 141	Physical Hydrology (4) I	(Prereq: PHY 9B, MAT 21B 100 rec.)	
HYD 143	Hydro. Process. In Ecosy. (3) II	(Prereq: HYD 141 or ERS 100)	
GEL 134	Env. Geo. & Land Use Plan. (3) II	(Prereq: pref. 50 or 1 or con.)	
SSC 118	Soils in Land Use & the Env.) (4) III	(Prereq: 100 or consent)	
<i>Geographic Info. Systems (4-5)</i>			
ABT/PLS 180	Introduction to GIS (5) I	(Prereq: PLS 21 & 120 or equiv.)	
ABT 181N	Concepts & Meth. in GIS (4) II	(Prereq: ABT/PLS 180 or LDA 50 or equiv.)	
ERS 186/186L	Env. Remote Sensing and Lab (5 total) III	(Prereq: MAT16B and PHY 7C or 9B.)	