

ENSP – Land Use

Effective -- Fall 2016 and beyond

Updated 7.25.18 – ABM

ENSP Core			
Course	Title	Offered	Grade
All			
ENSP101 (NS)	Intro to Env Science	Fa	
ENSP102 (HS)	Intro to Env Policy	Sp	
ENSP400 (SP)	Senior Capstone	Fa,Sp	
Applied Science and Policy (one)			
ENSP305	Quant. Methods	Sp	
ENSP330	Environmental Law	Fa, Sp	
ENSP340	Sci, Ethics, Law: Water	Fa	
ENSP342	Oceans: Integ. Policy	Sp	
ENSP350	Energy & Science	TBA	
Calculus (one)			
MATH120 (MA)	Elementary Calculus	Fa,Sp,Su	Grade
MATH140 (MA)	Calculus I (<i>recommended</i>)	Fa,Sp,Su	
Statistics (one)			
BIOM301 (AR)	Intro to Biometrics	Fa,W,Sp	Grade
GEOG306 (AR)**	Intro to Quant Methods	Fa,Sp,Su,	
PSYC200 (AR)	Stat Methods in Psych	Fa,Sp,Su	
** <i>strongly recommended</i>			
Four (4) courses from the 5 groups below:			
Biology (req'd)			
BSCI160/161 (NL)	Ecology & Evolution/Lab	Fa,Sp,Su	Grade
Chemistry			
CHEM131/132 (NL)	Gen Chemistry I/Lab	Fa,Sp,Su	Grade
Earth Sci (req'd)			
GEOG201/211 (NL)	Geog Environ Sys/Lab	Fa,Sp,Su	Grade
Economics (one)			
AREC240 (HS)	Intro to Econ and Env	Sp	
AREC241 (HS, IS)	Env, Econ, and Policy	Fa	
ECON200	Princ of Microeconomics	Fa,Sp,Su	
Geography (req'd)			
GEOG202 (CC)	Intro to Human Geog	Sp	
ENSP Graduation Requirements			
_____ Students must earn <u>C- or higher</u> in all courses used for ENSP Core and Concentration requirements.			
_____ Students' major GPA must be 2.0 or higher.			

General Education		
Fundamental Studies (15 credits)		
Requirements	Course	Cr
Academic Writing (AW)		3
Professional Writing (PW)		3
Oral Communication (OC)		3
Math (MA)	Calculus	3-4
Analytical Reasoning (AR)	GEOG306	
Distributive Studies (25 credits)		
Requirements	Course	Cr
Natural Sciences w/Lab (NL)	ENSP Lab Sci	4
Natural Science (NS)	ENSP 101	3
History and/or Social Sci (HS1)	ENSP 102	3
History and/or Social Sci (HS2)		4
Humanities (HU1)		3
Humanities (HU2)		3
Scholarship in Practice (SP, major)	ENSP 400	3
Scholarship in Practice (SP, non-major)		3
I-Series (6 credits)*		
* May double-count with Distributive Studies		
Requirements	Course	Cr
I- Series (IS)		3
I- Series (IS)		3
Diversity (4-6 credits)*		
* May double-count with Distributive Studies		
Requirements	Course	Cr
Understanding Plural Societies (UP)		3-6
Understanding Plural Societies (UP) or Cultural Competency (CC)	GEOG202	0-3
Experiential Learning (0-3 credits)*		
* May overlap with major requirements		
Requirements	Course	Cr
Practical experience is <i>required</i> in this concentration		
Graduation Requirements		
_____ <u>Up to 6 AP courses</u> may be used for Gen Ed		
_____ No more than 60 credits earned from Community College		
_____ Last 30 credits must be earned at Maryland		
_____ 120+ cumulative credits <i>and</i> 2.0+ cum GPA		

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REQUIREMENTS:

>>> **LOWER LEVEL FOCUS – 3-4 credits:** Select as you consider your areas of interest in the Restricted Electives (below).

Course	Title	Cr	Offered	Prerequisites	Grade
One of:					
GEOG 130	Developing Countries	3	Fa, Su	CHEM 131/132	_____
GEOG 140 (IS)	Natural Disasters	3	F		_____
GVPT 260	State and Local Government	3	Sp		_____
ENST 200	Fundamentals of Soil Science	4	Fa		_____
URSP 100	Challenge of the Cities	3	F		_____

- **Approved substitute:**

>>> **TECHNIQUES AND METHODS – 6 credits:**

Course	Title	Cr	Offered	Prerequisites	Grade
GEOG 372	Remote Sensing	3	F,Sp,Su,W		
GEOG 373	Geographic Information Systems	3	F,Sp,Su,W		

RESTRICTED ELECTIVES (22-24 credits). Students must take at least 8 courses, including at least one course and 3 credits from each of the five (5) areas below. Students may suggest additions to this list by bringing a course syllabus to the faculty advisor and explaining how the course relates to their long-term academic or career interests.

>>> **Area 1 – Social/Cultural Dimensions** – choose at least 1 course and 3 credits

Course	Title	Cr	Offered	Prerequisites	Grade
ANTH 450	Environmental Anthropology	3	Sp	Junior standing	
ENST 440	Crops, Soils, and Civilization	3	Sp		
GEOG 212	Career Planning for Geog.	1	F, Sp		
GEOG 332	Economic Geography	3	Fa		
GEOG 334	The American City: Past and Pres.	3		No longer offered	
GEOG 433 or GEOG 498L	Land Use & Urban Economics	3	Sp		
GEOG 434	The Contemporary City	3	Sp		
GEOG 435 or GEOG 335	Population Geography	3	Sp		
GVPT 461	Metropolitan Government	3	Sp		
SOCY 305 or SOCY 405	Scarcity in Modern Society	3	Sp	Beginning Spring 2016	

- **Approved substitute:**

>>> **Area 2 – Technical Skills** – choose at least 1 course and 3 credits.

Course	Title	Cr	Offered	Prerequisites	Grade
GEOG 415	Land Use, Climate Chg and Sust	3	Sp	GEOG 201/211, GEOG 306 or equiv.	
GEOG 418	Field and Lab Tech. in Env Science	3	F	<i>Field component takes place in the summer; check Sched of Classes.</i>	
GEOG 432	Location and Spatial Analysis	3		No longer offered.	
GEOG 472 *	Rem Sensing, Digital Proc and Anal	3	F	GEOG 372	
GEOG 473 *	Applications of GIS	3	Fa, Sp	GEOG 373	
GEOG 475	Adv Cartography	3	Sp	GEOG 373	
GEOG 476 **	Programming for Geographers	3	Fa	GEOG373, GEOG376 and GEOG 306	

Asterisked * courses are strongly recommended for students planning on graduate school in Geography or Regional Planning. Students planning to go into Geographic Information Sciences** should also take GEOG 476 and an additional statistics course.

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>>> **Area 3 – Regional Dimensions** – choose at least 1 course and 3 credits.

Course	Title	Cr	Offered	Prerequisites	Grade
AREC 455	Economics of Land Use	3	F	AREC240, ECON201, and AREC326	
ENST 373	Nat History of the Chesapeake Bay	3	F	A course in Biology or dept perm	
GEOG 310	Maryland	3	Su		
GEOG 312	US and Canada	3	Su		
GEOG 423	Latin America	3	F	Permission of GEOG department. Or GEOG201 and GEOG202; and (GEOG332, GEOG435, or GEOG333).	
GEOG 410	Washington, DC : Past and Present	3	Sp		
GEOG328B or GEOG421	Geog of China Geog of China	3 3	Sp Sp		
GEOG328C or GEOG422	Sub-Saharan Africa Sub-Saharan Africa	3 3	F F		

- **Approved substitute:**

>>> **Area 4 – Ecological Dimensions** – choose at least 1 course and 3 credits.

Course	Title	Cr	Offered	Prerequisites	Grade
BSCI 361 <i>or</i> GEOG 342	Ecology <i>or</i> Biogeography	4 3	Sp Sp	BSCI 160/161 and (MATH 140 or 220) no longer offered	____ ____
BSCI 362	Ecol of Marsh and Dune Veg	2	F	No longer offered	
BSCI 460	Plant Ecology	3	F	BSCI 160/161	
BSCI 462	Population Ecology	3	F	BSCI 160/161 and MATH 220	
GEOG 398B	Adv Geography of Environmental Sys	3	Sp	GEOG201/211	
GEOG 442	Biogeography and Env Change	3	F	GEOG 342 or BSCI361	
ENST 430	Wetland Soils	3	Sp	ENST 200	
ENST 450	Wetland Ecology	3	F	BIOM 301 or permission – Fall of “even” years.	
ENST 460	Wildlife Management	3	F	BSCI 160/161.	
ENST 461	Urban Wildlife Management	3	F		
GEOL453	Ecosystem Restoration	3	F	CHEM131/132; MATH 220; ENST200.	
PLSC 471	Forest Ecology	3	Sp	BSCI 160/161 or PLSC 201	

- **Approved substitute:**

>>> **Area 5 – International Dimensions** – choose at least 1 course and 3 credits.

Course	Title	Cr	Offered	Prerequisites	Grade
AREC 332	Intro to Natural Resources Policy	3		No longer offered.	
AREC 365	World Hunger, Pop, and Food Supply	3	F, Sp		
GEOG 331	Hum Dimensions of Global Chng	3	Sp	GEOG 201 or 202 or permission	
GEOG 333 <i>or</i> GEOG 456	Social Geog Metro... in Global Persp Social Geog Metro... in Global Persp	3 3	Fa		
ENST 479	Tropical Ecol and Resource Mgmt	3	Sp	BSCI 160/161. <i>Course has a required study abroad component. Dept. permission required.</i>	

- **Approved substitute:**

APPLICATION & SYNTHESIS (6 credits) :

Course	Title	Cr	Offered	Prerequisites	Grade
ENSP 386	Internship	3	F,Sp,Su	Dept. permission	
GEOG 431	Culture & Natural Resource Mgt	3	F		

- **Advisor notes, approved substitutions, etc.**