

ENSP – Land Use

Effective -- Fall 2016

Reviewed 10.12.16 – WW

ENSP Core				General Education		
All				Fundamental Studies (15 credits)		
Course	Title	Offered	Grade	Requirements	Course	Cr
ENSP101 (NS) ENSP102 (HS) ENSP400 (SP)	Intro to Env Science Intro to Env Policy Senior Capstone	Fa Sp Fa,Sp		Academic Writing (AW)		3
Applied Science and Policy (one)				Distributive Studies (25 credits)		
ENSP305 ENSP330 ENSP340 ENSP342 ENSP350	Quant. Methods Environmental Law Sci, Ethics, Law: Water Oceans: Integ. Policy Energy & Science	Sp Fa, Sp Fa Sp TBA		Professional Writing (PW)		3
Calculus (one)				Requirements		
MATH120 (MA) MATH140 (MA)	Elementary Calculus Calculus I (<i>recommended</i>)	Fa,Sp,Su Fa,Sp,Su	Grade	Natural Sciences w/Lab (NL)	ENSP Lab Sci	4
Statistics (one)				Course		
BIOM301 (AR) GEOG306 (AR)** PSYC200 (AR)	Intro to Biometrics Intro to Quant Methods Stat Methods in Psyc	Fa,W,Sp Fa,Sp,Su, Fa,Sp,Su	Grade	Natural Science (NS)	ENSP 101	3
Four (4) courses from the 5 groups below:				I-Series (6 credits)*		
Biology (req'd)				Requirements		
BSCI160/161 (NL)	Ecology & Evolution/Lab	Fa,Sp,Su	Grade	Natural Sciences w/Lab (NL)	ENSP Lab Sci	4
Chemistry				Course		
CHEM131/132 (NL)	Gen Chemistry I/Lab	Fa,Sp,Su	Grade	Natural Science (NS)	ENSP 101	3
Earth Sci (req'd)				I- Series (IS)		
GEOG201/211 (NL)	Geog Environ Sys/Lab	Fa,Sp,Su	Grade	I- Series (IS)		3
Economics (one)				Diversity (4-6 credits)*		
AREC240 (HS) AREC241 (HS, IS) ECON200	Intro to Econ and Env Env, Econ, and Policy Princ of Microeconomics	Sp Fa Fa,Sp,Su		Requirements		
Geography (req'd)				Course		
GEOG202 (CC)	Intro to Human Geog	Sp		Understanding Plural Societies (UP)		3-6
ENSP Graduation Requirements				Experiential Learning (0-3 credits)*		
_____ Students must earn <u>C- or higher</u> in all courses used for ENSP Core and Concentration requirements.				Requirements		
_____ Students' major GPA must be 2.0 or higher.				Course		
				Cr		
				Practical experience is <i>required</i> in this concentration		
ENSP Graduation Requirements				Graduation Requirements		
_____ Students must earn <u>C- or higher</u> in all courses used for ENSP Core and Concentration requirements.				_____ Up to 6 AP courses <u>may</u> be used for Gen Ed		
_____ Students' major GPA must be 2.0 or higher.				_____ There are at least 40 non-overlapping Gen Ed credits		
				_____ 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		—
GEOG 140 (IS)	Natural Disasters	3	F		—
GVPT 260	State and Local Government	3	Sp		—
ENST 200	Fundamentals of Soil Science	4	Fa	CHEM 131/132	—
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. 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.*

>>> **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	Field component takes place in the summer; check Sched of Classes.	
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	

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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 313 or GEOG 423	Latin America and the Caribbean Latin America and the Caribbean	3 3	F F	Beginning Fall 2015	
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.**