

# ENSP – Environment and Agriculture

Updated 9/16/19 - ABM

**NOTE: always refer to the Schedule of Classes on Testudo for the most up-to-date information regarding course offerings, prerequisites and restrictions.**

<b>ENSP Core</b>			
Course	Title	Offered	Grade
<b>All three</b>			
ENSP101 (NS)	Intro to Env Science	Fa	
ENSP102 (HS)	Intro to Env Policy	Sp	
ENSP400 (SP)	Senior Capstone	Fa,Sp	
<b>Applied Science &amp; Policy (pick one)</b>			
ENSP305	Applied Quant. Methods in Env. Sci & Policy	Sp	
ENSP330	Environmental Law	Fa, Sp	
ENSP340	Sci, Ethics, Law: Water	Fa	
ENSP342	Oceans: Integ. Policy	Sp	
ENSP350	Energy: Science & Policy	TBA	
<b>Calculus (pick one)</b>			
MATH120 (MA) or MATH140 (MA)	Elementary Calculus Calculus I ( <i>recommended</i> )	Fa,Sp,Su Fa,Sp,Su	Grade
<b>Statistics (pick one)</b>			
BIOM301 (AR)	Intro to Biometrics	Fa,W,Sp	Grade
GEOG306 (AR)	Intro to Quant Methods	Sp,Su, W	
PSYC200 (AR)	Stat Methods in Psyc	Fa,Sp,Su	
<b>Four (4) courses from the 5 groups below:</b>			
<b>Biology (req'd)</b>			
BSCI160/161 (NL)	Ecology & Evolution/Lab	Fa,Sp,Su	Grade
<b>Chemistry (req'd)</b>			
CHEM131/132 (NL)	Gen Chemistry I/Lab	Fa,Sp,Su	Grade
<b>Earth Sci (req'd)</b>			
ENST 200 (NL)	Princ of Soil Science	Fa	Grade
<b>Economics (pick one)</b>			
AREC240 (HS)	Intro to Econ and Env	Sp	
AREC241 (HS, IS)	Env, Econ, and Policy	Fa	
ECON200 (HS)	Princ of Microeconomics	Fa, Sp, W	
<b>Geography (pick one)</b>			
GEOG130 (HS)	Developing Countries	Fa,Su	
GEOG140 (IS)	Natural Disasters	Fa, Sp	
GEOG170 (NS)	Meth of Geospatial Anal	Fa	
GEOG202 (CC)	Intro to Human Geog	Sp	
<b>ENSP Graduation Requirements</b>			
_____ 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.			

<b>General Education</b>		
<b>Fundamental Studies (15 credits)</b>		
Requirements	Course	Cr
Academic Writing (AW)		3
Professional Writing (PW)		3
Oral Communication (OC)		3
Math (MA)	Calculus	3-4
Analytical Reasoning (AR)	Statistics	
<b>Distributive Studies (25 credits)</b>		
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
<b>I-Series (6 credits)*</b>		
* May double-count with Distributive Studies		
Requirements	Course	Cr
I- Series (IS)		3
I- Series (IS)		3
<b>Diversity (4-6 credits)*</b>		
* May double-count with Distributive Studies		
Requirements	Course	Cr
Understanding Plural Societies (UP)		3-6
Understanding Plural Societies (UP) or Cultural Competency (CC)		0-3
<b>Experiential Learning (0-3 credits)*</b>		
* May overlap with major requirements		
Requirements	Course	Cr
Practical experience is <i>required</i> in this concentration		
<b>Graduation Requirements</b>		
_____ Up to 6 AP courses <u>may</u> 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		

## ENSP – Environment and Agriculture (cont'd)

### REQUIREMENTS:

#### >>> Fundamentals and Background (5 courses, 18-19 credits):

Course	Description	Cr	Offered	Prerequisites	Grade
ANSC 101/103	Principles of Animal Science and Lab	3/1	F	Must be declared in ENSP-E&A	
BSCI 170/171	Cellular and Molecular Biology	4	F, Sp, Su	MATH 220 placement or higher	
BSCI 222 <i>or</i> PLSC 203	Genetics <i>or</i> Plants, Genes and Biodiversity	4 3	F, Sp, Su Sp	BSCI160/161, BSCI 170//171 & CHEM131/132 BSCI 170/171	
CHEM 231/232	Organic Chemistry I	4	F, Sp, Su	CHEM 131/132	
PLSC 101	Intro to Crop Science	4	F		

#### >>> Cartography, Remote Sensing, and GIS: Choose 2 courses (6 credits): *Grayed courses are not offered at this time*

Course	Description	Cr	Offered	Prerequisites	Grade
GEOG 475	Adv Computer Cartography	3	Sp	GEOG 373	
GEOG 372 <i>or</i>	Remote Sensing <i>or</i>	3	F, Su, W		
GEOG 472	Advanced Remote Sensing	3	Fa	GEOG 372	
GEOG 373	Geographic Information Systems or	3	F, Sp, Su, W		
GEOG 473	Adv Geographic Information Systems	3	Sp	GEOG 373	

#### >>> Internship (3 credits):

Course	Description	Cr	Offered	Grade
ENSP 386	Internship	3-6	F, Sp, Su	

**RESTRICTED ELECTIVES** (15-19 credits): Choose five (5) courses in one area, which together with ENSP 386 provides integration and skill development (15-19 credits). 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. Crop production and plant protection *Grayed courses are not offered at this time*

Course	Description	Cr	Offered	Prerequisites	Grade
BSCI 361	Ecology	4	F, Sp	BSCI 160/161, Calculus	
BSCI 442	Plant Physiology	4	Sp	BSCI223 and BSCI222	
PLSC 420	Plant Pathology (*recommended)	4	F	CHEM131/132 and PLSC201, or perm.	
ENST 411	Soil Fertility	3	Sp	ENST 200	
ENST 423	Soil-Water Pollution	3	F	ENST 200 and CHEM 104 or perm.	
ENST 441	Sustainable Agriculture	3	F		
PLSC 453	Weed Science	3	F		

#### >>> Area 2. Human dimensions

Course	Description	Cr	Offered	Prerequisites	Grade
AREC 306	Farm Management	3	F		
AREC 365	World Hunger, Pop, and Food Supplies	3	F, Sp		
AREC 445	Agri Devmt, Pop Growth, and Env	3	Sp	ECON 200, 201 and AREC326 or perm	
AREC 455	Land Use Economics	3	F	ECON 200, 201 and AREC326 or perm	
ECON 315	Econ Dev of Underdeveloped Areas	3	Sp	ECON 200 and 201 or perm.	
GEOG 312	Geog of US and Canada	3	Su		
GEOG 431	Culture and Natural Resource Mgmt	3	F		
GVPT 306	Global Ecopolitics	3	F	GVPT 200	
ENST 440	Soils, Crops and Civilization	3	Sp		
ENST 441	Sustainable Agriculture	3	F		
PLSC 303	International Crop Production	3	Sp	BSCI 170/171	
SOCY 405	Scarcity in Modern Society	3	Sp	6 cr SOCY	

#### >>> Advisor notes, approved course substitutions, etc.