

# ENSP - Environment and Agriculture

Reviewed 4.21.16 - WW

ENSP Core				UM General Education		
Course				Fundamental Studies (15 credits)		
Title				Requirements	Course	Cr/AP/IB/D
Offered				Academic Writing (AW)		
Grade				Professional Writing (PW)		
All ENSP101 (NS) ENSP102 (HS) ENSP400 (SP)				Oral Communication (OC)		
				Math (MA)		
				Analytical Reasoning (AR)		
Calculus (one)				Distributive Studies (25 credits)		
MATH220 (MA)				Requirements		
MATH140 (MA)				Natural Sciences w/Lab (NL)		
Elem Calculus I Calculus I ( <i>rec</i> )				Natural Science (NS)		
				History and/or Social Sci (HS1)		
Statistics (one)				History and/or Social Sci (HS2)		
BIOM301 (AR)				Humanities (HU1)		
GEOG306 (AR)				Humanities (HU2)		
PSYC200 (AR)				Scholarship in Practice (SP, major)		
Intro to Biometrics Quant Methods Stat. Meth in Psych				Scholarship in Practice (SP, non-major)		
				I-Series (6 credits)*		
Fa, W, Sp Fa, Sp Fa, Sp, Su				* May double-count with Distributive Studies		
				Requirements		
Fa, W, Sp Fa, Sp Fa, Sp, Su				I- Series (IS)		
				I- Series (IS)		
All <u>4</u> courses below:				Diversity (4-6 credits)*		
Biology				* May double-count with Distributive Studies		
BSCII06 (NL)				Requirements		
Princ of Biology II				I- Series (IS)		
Chemistry				I- Series (IS)		
CHEM131/132 (NL)				Course		
Gen Chemistry I/ Lab				Cr/AP/Unique		
Earth Sci				Understanding Plural Societies (UP)		
ENST200 (NL)				Understanding Plural Societies (UP) or Cultural Competency (CC)		
Fund of Soil Science				Experiential Learning (0-3 credits)*		
Economics (one)				* May overlap with major requirements		
AREC240 (HS)				Requirements		
AREC241 (HS, IS)				An internship is required in this concentration.		
ECON200 (HS)				Course		
Intro Econ and Env Env, Econ, Policy Micro-Econ				Cr		
Sp Fa Fa, W, Sp, Su				ENSP 386		
Choose <u>1</u> course from <u>one</u> category below:				3-6		
Govt /Pol (one)				0-3		
ENSP330				Experimental Learning (0-3 credits)*		
ENSP340				* May overlap with major requirements		
ENSP342				Requirements		
GVPT273 (SP)				An internship is required in this concentration.		
Environmental Law Sci & Policy: Water Oceans: Integr. Pol Intro to Env Politics				Course		
Fa, Sp Fa Sp Sp				Cr		
Geography (one)				ENSP 386		
GEOG100 (HS)				3		
GEOG130 (HS or SP)				UM Graduation Requirements		
GEOG140 (IS)				Up to 6 AP courses <b>may</b> be used for Gen Ed		
GEOG202 (CC)				There are <b>at least</b> 40 non-overlapping Gen Ed credits		
Intro to Geography Dev Countries Natural Disasters Intro to Human Geog				No more than 60 credits earned from Community College		
Fa, Su Fa, Su Fa Sp, Su				Last 30 credits must be earned at Maryland		
ENSP Graduation Requirements				120+ cumulative credits <i>and</i> 2.0+ cum GPA		
Students must earn <u>C-</u> or <u>higher</u> in all courses used for ENSP Core and Concentration requirements.				UM Graduation Requirements		
Students' major GPA must be 2.0 or higher.				There are <b>at least</b> 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		

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

### REQUIREMENTS:

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

Course	Description	Cr	Offered	Prerequisites	Grade
ANSC 101/103	Principles of Animal Science and Lab	3/1	F		
BSCI 105	Principles of Biology I	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	BSCI 105 and one year chemistry BSCI 105	
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 no longer offered.*

Course	Description	Cr	Offered	Prerequisites	Grade
GEOG 475	Adv Computer Cartography	3	Sp	GEOG 373	
GEOG 372 <i>or</i> ENST 442	Remote Sensing <i>or</i> Remote Sensing of Ag and Nat Res	3	Sp, Su, W		
GEOG 472	Advanced Remote Sensing	3	Fa	GEOG 372	
GEOG 373 <i>or</i> ENST 415	Geographic Information Systems <i>or</i> GIS Applications in Soil Science	3 4	F, 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):

#### >>> Area 1. Crop production and plant protection

Course	Description	Cr	Offered	Prerequisites	Grade
BSCI 361	Ecology	4	Sp	BSCI 106	
PLSC 442 <i>or</i> PLSC 400	Plant Physiology <i>or</i> Principles of Plant Physiology	4 4	F Sp		
PLSC 420	Plant Pathology	4	F	CHEM 104 or 231/232, and ENST 201	
ENST 411	Soil Fertility	3	Sp	ENST 200	
ENST 413 <i>or</i> ENST 423	Soil-Water Conservation <i>or</i> Soil-Water Pollution	4 3	F F	ENST 200 and CHEM 104 or perm.	
ENST 441	Sustainable Agriculture	3	F		
PLSC 403	Crop Breeding	3	Sp	BSCI 222 or permission	
PLSC 406	Forage Crops	3	Sp	BSCI 105	
PLSC 407	Cereal and Oil Crops	3	F	BSCI 105 and PLSC 101	
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 3xx	Regional Geog (Latin America and Caribbean; Africa; or other underdeveloped regions).	3	varies		
GEOG 431	Culture and Natural Resource Mgmt	3	F		
GVPT 306	Global Ecopolitics	3	Sp, Su	GVPT 200	
ENST 440	Soils, Crops and Civilization	3	Sp		
ENST 441	Sustainable Agriculture	3	F		
PLSC 303	International Crop Production	3	Sp	BSCI 105	
SOCY 305	Scarcity in Modern Society	3	Sp	3 cr SOCY or ENSP102	

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