

ENSP - Environment and Agriculture

Reviewed 4.21.16 - WW

ENSP Core				UM General Education		
All				Fundamental Studies (15 credits)		
Course	Title	Offered	Grade	Requirements	Course	Cr/AP/IB/D
ENSP101 (NS) ENSP102 (HS) ENSP400 (SP)	Intro to Env Science Intro to Env Policy Capstone	Fa Sp Fa,Sp		Academic Writing (AW)		3
Calculus (one) MATH220 (MA) MATH140 (MA)	Elem Calculus I Calculus I (<i>rec</i>)	Fa,Sp,Su Fa,Sp,Su	Grade	Professional Writing (PW)		3
Statistics (one) BIOM301 (AR) GEOG306 (AR) PSYC200 (AR)	Intro to Biometrics Quant Methods Stat. Meth in Psych	Fa,W,Sp Fa,Sp Fa,Sp,Su	Grade	Oral Communication (OC)		3
All <u>4</u> courses below:				Math (MA)	Calculus	3-4
Biology BSCII06 (NL)	Princ of Biology II	Fa,Sp,Su	Grade	Analytical Reasoning (AR)	ENSP Stat	3
Chemistry CHEM131/132 (NL)	Gen Chemistry I/ Lab	Fa,Sp,Su	Grade	Distributive Studies (25 credits)		
Earth Sci ENST200 (NL)	Fund of Soil Science	Fa	Grade	Requirements	Course	Cr/AP/IB/D
Economics (one) AREC240 (HS) AREC241 (HS, IS) ECON200 (HS)	Intro Econ and Env Env, Econ, Policy Micro-Econ	Sp Fa Fa,W,Sp,Su	Grade	Natural Sciences w/Lab (NL)	ENSP Lab Sci	4
Choose <u>1</u> course from <u>one</u> category below:				Natural Science (NS)	ENSP 101	3
Govt /Pol (one) ENSP330 ENSP340 ENSP342 GVPT273 (SP)	Environmental Law Sci & Policy: Water Oceans: Integr. Pol Intro to Env Politics	Fa, Sp Fa Sp Sp	Grade	History and/or Social Sci (HS1)	ENSP 102	3
Geography (one) GEOG100 (HS) GEOG130 (HS or SP) GEOG140 (IS) GEOG202 (CC)	Intro to Geography Dev Countries Natural Disasters Human Geography	Fa,Su Fa, Su Fa Sp,Su	Grade	History and/or Social Sci (HS2)	AREC240	3
ENSP Graduation Requirements				Humanities (HU1)		3
_____ Students must earn <u>C- or higher</u> in all courses used for ENSP Core and Concentration requirements.				Humanities (HU2)		3
_____ Students' major GPA must be 2.0 or higher.				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	Unique cr
				I- Series (IS)		3
				I- Series (IS)		3
				Diversity (4-6 credits)*		
				* May double-count with Distributive Studies		
				Requirements	Course	Cr/AP/Unique
				Understanding Plural Societies (UP)		3-6
				Understanding Plural Societies (UP) or Cultural Competency (CC)		0-3
				Experiential Learning (0-3 credits)*		
				* May overlap with major requirements		
				Requirements	Course	Cr
				An internship is required in this concentration.	ENSP 386	3
				UM Graduation Requirements		
				_____ Up to 6 AP courses may be used for Gen Ed		
				_____ 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		

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.