ENSP - Environmental Economics

Reviewed 10.9.15 - WW

	ENSP Core			UM General Educa				
_				Fundamental Studies (15 credits)				
Course (all three) ENSP101 (NS)	Title Intro to Env Science	Offered Fa	Grade	Academic Writing (AW)	Course	Cr/AP/IB/D		
ENSP102 (HS)	Intro to Env Policy	Sp		Professional Writing (PW)		3		
ENSP400 (SP)	Capstone	Fa,Sp		Professional Writing (PW)				
	-	•	Grade	Oral Communication (OC)	G 1 1	3		
Calculus (one)	Flamentam Calada	E- C- C-	Grade	, ,	Calculus	3-4		
MATH220 (MA) MATH140 (MA)	Elementary Calculus Calculus I (strongly recommended)	Fa,Sp,Su Fa,Sp,Su		Analytical Reasoning (AR)	ENSP Stat	3		
Statistics (one) BIOM301 (AR)	Intro to Biometrics	Fa,W,Sp	Grade	Distributive Studies (25	Distributive Studies (25 credits)			
ECON321 (AR)	Economic Statistics (rec.) Intro to Quant Methods	Fa,Sp Fa,Sp			Course	Cr/AP/IB/D		
GEOG306 (AR)	Stat. Meth in Psychology	Fa,Sp,Su		Natural Sciences w/Lab (NL) ENS	SP Lab Sci	4		
PSYC200 (AR) STAT400	Applied Prob and Stat I	Fa,Sp,Su		Natural Science (NS)	ENSP 101	3		
S1A1400	rappined rive und state r	ru,sp,su		History and/or Social Sci (HS1)	ENSP 102	3		
				History and/or Social Sci (HS2) ARI	EC/ECON	4		
				Humanities (HU1)		3		
<u> </u>	1	1	1	Humanities (HU2)		3		
Choose 4 courses	from the 5 categories	below:			ENSP 400	3		
<u> </u>				Scholarship in Practice (SP, non-major)	1151 100	3		
D: 1		T	Grade	Scholarship in Fractice (SF, non-major)		3		
Biology	D: :1 (D:1 H	E C C	Grade	I Carias (/ anadita)	.) *			
BSCI106 (NL)	Principles of Biology II	Fa,Sp,Su	Grade	I-Series (6 credits)	·)			
Chemistry		E C C	Grade	* May double-count with Distributive Studies	es			
CHEM131/132 (NL)	General Chemistry I /Lab	Fa,Sp,Su	Consider					
Earth Sci (one)			Grade	Damilarana	0	0-		
AOSC200/201 (NL)	Weather & Climate/Lab	Fa,Sp		-	Course			
ENST200 (NL)	Fundamentals of Soil Sci	Fa S- S-		I- Series (IS)				
GEOG201/211 (NL) GEOL100/110 (NL)	Geog of Environ Sys/Lab Physical Geology/Lab	Fa,Sp,Su Fa,Sp,Su		I- Series (IS)		3		
ENSP330 ENSP340 ENSP342 GVPT273 (SP) Geography (one) GEOG100 (HS) GEOG130 (HS or SP) GEOG140 (IS) GEOG202 (CC)	Environmental Law Sci, Ethics, Law: Water Oceans: Integrated Policy Intro to Env Politics Intro to Geography Developing Countries Natural Disasters World in Cultural Persp	Fa, Sp Fa Sp Sp Fa,Su Fa,Su Fa Sp,Su	Grade	Diversity (4-6 credit	ts)*			
And				* May double-count with Distributive Studies	es			
And				,	Course	Cr/AP/IB/D		
				Understanding Plural Societies (UP)		3-6		
Economics (one) AREC240 (HS)	Intro to Econ and Env	Sp	Grade	Understanding Plural Societies (UP) or Cultural Competency (CC)				
AREC241 (HS, IS) ECON200 (HS)	Env, Econ, and Policy Princ of Micro-Econ	Fa F,S,Su, W		Experiential Learning (0-3	3 credits)	*		
		1		* May overlap with major requirements				
					Course	Cr		
				An internship is <i>strongly recommended</i> EN but is not required.	NSP 386			
ENSP	Graduation Requirer	ments		UM Graduation Require				
Students mus	t earn <u>C- or higher</u> in all	COlleges 116	sed for	<u>Up to 6 AP courses</u> may be used for G				
	centration requirements		101	There are at least 40 non-overlapping				
			11#000	No more than 60 credits earned from 0		College		
	GPA must be 2.0 or high		urses		Last 30 credits must be earned at Maryland			
used for ENSP Core	and Concentration requ	irements.		Major GPA must be 2.0 or higher.				
				120+ cumulative credits <i>and</i> 2.0+ cum	n GPA			

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REQUIREMENTS (25 credits):

Course	Description	Cr	Offered	Prerequisites	Grade
AREC 453	Natural Resources and Public Policy	3	F	ECON 326	
AREC 454	Economics of Climate Change	3	Sp	ECON 326. If not offered, see your advisor to	
	_		_	discuss a substitution.	
AREC 455	Economics of Land Use	3	F	ECON 326	
ECON 201	Princ of Macro-Economics	4	F,Sp	ECON 200*	
ECON 300	Methods and Tools for Econ Analysis	3	Sp, F	ECON 200*, ECON 201, and MATH 220.	
	-			NOTE: ECON 300 is not open to students who	
				have completed MATH240 or 241	
ECON 326	Intermed. Microeconomic Theory	3	Sp, F	ECON 300 or MATH 240 or MATH 241	
Select one:					
ECON 481	Environmental Economics (strongly rec)	3	rarely	ECON 326	
ECON 454	Theory of Publ. Fin. & Fiscal Fed	3	Sp, F	ECON 326	
Select one:					
AREC 365	World Hunger, Pop, & Food Supplies	3	Sp, F	-	
AREC 382	Intro to Information from Econ Data	3	Sp	Perm. of dept.	
AREC 433	Food and Agricultural Policy	3	F	ECON 306 or ECON 326	
AREC 445	Agric. Dev., Pop. Growth & Environ.	3	Sp	ECON 306 or ECON 326	
ECON 413	Information and Markets **	3	F	ECON 326	
ECON 422	Quantitative Methods in Econ I **	3	Sp, F, Su	ECON 200, 201, and 321	
ECON 456	Law and Economics **	3	Sp	ECON 326	
			1		

^{*} The Economics department has agreed to accept AREC 240 for ECON 200 where ECON 200 is a listed pre-requisite.

RESTRICTED ELECTIVES: At least 12 credits in \underline{one} (1) supporting area below: Social Science, Earth Science, Life Science, or Graduate School preparation.

>>> Area 1. Social Science

Course	Description	Cr	Offered	Prerequisites	Grade
ANTH 450	Theory & Practice of Environ Anthro	3	F		
GEOG 342	Introduction to Biogeography	3	Sp	GEOG 201. Recommended: GEOG 211	
GEOG 331	Intro to Human Dimen of Global Chng	3	F	GEOG 201 or 202; or ANTH 220 or 260	
GEOG 372	Remote Sensing	3	Sp, Su, W	-	
GEOG 373	Geographic Information Systems	3	F, Su,W	-	
GEOG 431	Culture and Natural Resource Mgt	3	F		
GEOG 435	Population Geography	3	Sp ,Su,W	-	
GEOG 437	Political Geography	3	F	-	
GEOG 442	Biogeography	3	F	GEOG 342 or BSCI361	
GVPT 200	International Political Relations	3	Sp,Su,F,W	GVPT 100 or ENSP102	
GVPT 306	Global Ecopolitics	3	Sp	GVPT 200	
GVPT 406	International Political Economy	3		GVPT 200	
HIST 405	Environmental History	3	varies		
SOCY 305	Scarcity and Modern Society	3	Sp, F	3 credits of sociology	
SOCY 333	Technology and Society	3	Sp	3 credits of sociology	
SOCY 410	Social Demography	3	Sp, F	6 credits of sociology or dept perm	

^{**} Due to severe over-enrollment in Economics, ENSP students should prepare to enroll in AREC courses in this category.

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>>> Area 2. Earth Science

Course	Description	Cr	Offered	Prerequisites	Grade
CHEM 104	Fund of Organic and Biochem	3	Sp	No longer offered	
CHEM231/231	Organic Chemistry I	3/1	Sp, F	CHEM131/132	
ENCE 315	Intro to Environmental Eng.	3	Sp, F	No longer offered	
ENST 413	Soil and Water Conservation	3	Sp	ENST 200	
ENST 423	Soil-Water Pollution	3	Sp	ENST 200 and CHEM 231/232 or dept. perm.	
ENST 440	Crops, Soils, and Civilization	3	Sp		
ENST 441	Sustainable Agriculture	3	Fa		
ENST 451	Water Quality: Field and Lab	3	Sp	CHEM 231/232	
	Analysis				
ENST 454	Env. Issues in Plant & Soil Sci	3	varies	No longer offered	
GEOL 340	Geomorphology	4	Sp	GEOL 100/110	
GEOL 341	Structural Geology	4	F	GEOL 102 or permission of dept.	
GEOL 452	Watershed and Wetland Hydr	3	F	CHEM 131/132 and GEOL 100/110 or perm.	
LARC 450	Environmental Resources	3	F	ENST 200 or permission of dept.	

>>> Area 3. Life Science

Course	Description	Cr	Offered	Prerequisites	Grade
BSCI 207	Organismal Biology	4	Sp,Su,F	BSCI 105, BSCI 106 and CHEM 131/132	
BSCI 361	Principles of Ecology	4	Sp	BSCI 106 and (MATH 140 or MATH 220)	
BSCI 363	Biol of Conserv and Extinction	3	Sp	BSCI 106	
BSCI 366	Biodiversity Issues in Conserv.	3	F	BSCI 207 or dept. permission	
	Mgmt.				
BSCI 370	Principles of Evolution	3	F	BSCI 106	
BSCI 374	Chesapeake Bay Lab	2	F	Pre- or corequisite: BSCI 373	
BSCI 460	Plant Ecology	3	Sp	BSCI 106	
BSCI 461	Plant Ecology lab	2	Sp	Pre- or corequisite: BSCI 460	
BSCI 462	Population Ecology	3	F	BSCI 106 and MATH 220	
BSCI 463	Laboratory and Field Ecology	2	F	Pre- or coreq.: BSCI 462 & a statistics course	
BSCI 473	Marine Ecology	3	F	BSCI 207	
ENST 373	Natural History of the Ches Bay	3	F	course in biological sciences or dept. perm.	
ENST 450	Wetland Ecology	3	F	BIOM 301 or permission of dept.	
ENST 460	Principles of Wildlife Mgmt	3	Sp	-	
ENST 461	Urban Wildlife Management	3	F	-	
ENST 479	Trop Ecol and Resource Mgmt.	1-6	Sp		

>>> Area 4. Preparation for Graduate Work in Environmental Economics: Mathematics, Theory, Econometrics

Course	Description	Cr	Offered	Prerequisites	Grade
MATH 141	Calculus II	4	Sp, Su, F	MATH 140 or equivalent	
MATH 240	Introduction to Linear Algebra	4	Sp, Su, F	MATH 141 or equivalent	
MATH 241	Calculus III	4	Sp, Su, F	MATH 141 and MATH 240	
ECON 321	Economic Statistics	3	Sp, Su, F	ECON 200 and 201, MATH 220 or MATH	
				140	
ECON 414	Game Theory	3	Sp, F	ECON 306 and (MATH 220 or 140)	
ECON 415	Strategic behavior and Incentives	3	Sp	ECON 414 or permission of dept.	
ECON 422	Quantitative Methods in Econ I	3	Sp,F	ECON 200, 201 and ECON 321 or perm	
ECON 425	Mathematical Economics	3	Su	ECON 305 or 405; ECON 306 or 406; and	
				MATH 220 or 140.	