

ENSP – Marine & Coastal Management

Effective -- Fall 2016 and beyond

Updated 7/25/18 - ABM

ENSP Core				General Education		
Course	Title	Offered	Grade	Fundamental Studies (15 credits)		
All				Requirements	Course	Cr
ENSP101 (NS)	Intro to Env Science	Fa		Academic Writing (AW)		3
ENSP102 (HS)	Intro to Env Policy	Sp		Professional Writing (PW)		3
ENSP400 (SP)	Senior Capstone	Fa,Sp		Oral Communication (OC)		3
Applied Science and Policy (one)				Math (MA)	Calculus	3-4
ENSP305	Quant. Methods	Sp		Analytical Reasoning (AR)	GEOG306	
ENSP330	Environmental Law	Fa, Sp		Distributive Studies (25 credits)		
ENSP340	Sci, Ethics, Law: Water	Fa		Requirements	Course	Cr
ENSP350	Energy: Science & Policy	TBA		Natural Sciences w/Lab (NL)	ENSP Lab Sci	4
Calculus (one)			Grade	Natural Science (NS)	ENSP 101	3
MATH140 (MA)	Calculus I	Fa,Sp,Su		History and/or Social Sci (HS1)	ENSP 102	3
Statistics (one)			Grade	History and/or Social Sci (HS2)		4
BIOM301 (AR)	Intro to Biometrics	Fa,W,Sp		Humanities (HU1)		3
GEOG306 (AR) **	Intro to Quant Methods	Fa,Sp,Su,		Humanities (HU2)		3
** recommended				Scholarship in Practice (SP, major)	ENSP 400	3
				Scholarship in Practice (SP, non-major)		3
Courses from each category as indicated below:				I-Series (6 credits)*		
Biology			Grade	* May double-count with Distributive Studies		
BSCI160/161 (NL)	Ecology & Evolution/Lab	Fa,Sp,Su		Requirements	Course	Cr
Chemistry			Grade	I- Series (IS)	AOSC200	3
CHEM131/132 (NL)	Gen Chemistry I/Lab	Fa,Sp,Su		I- Series (IS)		3
Earth Sci (both, req'd)			Grade	Diversity (4-6 credits)*		
GEOG201/211 (NL)	Geog Environ Sys/Lab	Fa,Sp,Su		* May double-count with Distributive Studies		
AOSC200/201 (IS)	Weather and Climate	Fa,Sp		Requirements	Course	Cr
Economics (one)				Understanding Plural Societies (UP)		3-6
AREC240 (HS)	Intro to Econ and Env	Sp		Understanding Plural Societies (UP) <i>or</i>		0-3
AREC241 (HS, IS)	Env, Econ, and Policy	Fa		Cultural Competency (CC)		
ECON200	Princ of Microeconomics	Fa,Sp,Su		Experiential Learning (0-3 credits)*		
Geography (one)				* May overlap with major requirements		
GEOG130 (HS)	Developing Countries	Fa,Su		Requirements	Course	Cr
GEOG140 (IS)	Natural Disasters	Fa, Sp		Practical experience is <i>required</i> in this		
GEOG170 (NS)	Meth of Geospatial Anal	Fa		concentration		
ENSP Graduation Requirements				Graduation Requirements		
_____ Students must earn <u>C-</u> or <u>higher</u> in all courses used for ENSP Core and Concentration requirements.				_____ Up to 6 AP courses may be used for Gen Ed		
_____ Students' major GPA must be 2.0 or higher.				_____ 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 – Marine and Coastal Management (cont'd)

UPPER LEVEL REQUIREMENTS (12 credits):

Course	Description	Cr	Offered	Prerequisites	Grade
AOSC 375/GEOL375	Introduction to the Blue Ocean	3	Fa	MATH 140.	
ENSP 342	Oceans & Coasts: Integrated Policy	3	Sp	ENSP101, ENSP102, and junior standing.	
GEOG 441	The Coastal Ocean	3	Sp	GEOG140 or course w/ comparable content	
ENST 450	Wetland Ecology	3	F	BIOM 301 or permission of ENST dept.	

>>> TECHNICAL REQUIREMENTS (6 credits):

Course	Description	Cr	Offered	Prerequisites	Grade
GEOG 372	Remote Sensing	3	Fa,Sp,Su,W		
GEOG 373	Geog Info Sys and Spatial Anal.	3	Fa,W,Su		

>>> SYNTHESIS: 6 credits

Course	Description	Cr	Offered	Prerequisites	Grade
ENSP 386	Internship	3	F,Sp	Dept. permission	
ENSP 400	Capstone	3	F,Sp	Senior standing and dept. permission	

RESTRICTED ELECTIVES (15 credits): Check course credit levels carefully to be sure they add up. 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 – COASTAL SCIENCE – must include at least two 300- or 400-level courses in Coastal Science:

Course	Description	Cr	Offered	Prerequisites	Grade
AOSC 400	Physical Meteorology of the Atmos	3	F	MATH 140 <i>or</i> perm.	
AOSC 401	Global Environment	3	Sp	AOSC 400	
BSCI 361	Ecology	4	F,Sp,Su	BSCI 160/161	
BSCI 375	Biological Oceanography	3	varies	BSCI 160/161 and BSCI 207	
BSCI 473	Marine Ecology	3	Sp	BSCI 160/161 and BSCI 207	
ENST 200	Fundamentals of Soil Science	4	Fa	CHEM 131/132.	
ENST 314	Fisheries and Sustainability	3	Sp*	<i>*Offered even years (2016, 2018, etc)</i>	
ENST 373	Natural History of the Ches Bay	3	Fa	One semester of biological science	
GEOG 340 <i>or</i> GEOL 340	Geomorphology	3	TBA	GEOG 201/211	
	Geomorphology	4	Fa	GEOL 100/110	
GEOG301	Adv Geog Environmental Sys	3	Sp	GEOG201/211	
GEOG 472	Advanced Remote Sensing	3	Fa	GEOG 372	
GEOG 473	Advanced Geog. Info. Systems	3	F, Sp	GEOG 373	
GEOL 452	Watershed and Wetland Hydrology	3	Fa	MATH 140, GEOL 100, CHEM 131/132, <i>or</i> perm	
GEOL 453	Ecosystem Restoration	3	Fa	Jr. standing	

>>> Area 2 – MANAGEMENT & GRADUATE SCHOOL PREPARATION

>>> 2a – Management – must include at least one 300- or 400-level course in Management, below. Students may not use a course here to double-count with ENSP Core, e.g., ENSP330 or ENSP340.

Course	Description	Cr	Offered	Prerequisites	Grade
ANTH 450	Theory and Prac of Env. Anth	3	F	Junior standing	
ANTH 454	Anth of Travel and Tourism	3	Varies		
AREC 453	Natural Resources and Public Policy	3	F	ECON 200, 201 and AREC 326	
AREC 454	Economics of Climate Change	3	Sp	ECON 200, 201 and AREC 326	
AREC 455	Economics of Land Use	3	F	ECON 200, 201 and AREC 326	
ENSP 330	Environmental Law	3	F, S	Junior standing; dept. perm.	
ENSP 340	Water: Science, Ethics and Law	3	Fa	Junior standing; dept. perm.	
GEOG 415	Land Use, Climate Change, & Sust.	3	Sp	GEOG 201/211, GEOG 306 or equiv	
GEOG 431	Culture and Natural Resource Mgmt	3	F		

>>> 2b – Graduate school preparation – *Optional. Students may use up to two courses* below as Restricted Electives.

Course	Description	Cr	Offered	Prerequisites	Grade
MATH 141	Calculus II	4	F,Sp,Su	MATH 140	
CHEM 231/232	Organic Chemistry	4	F,Sp,Su	CHEM 131/132	
PHYS 141	Physics	4	F,Sp	No longer offered	
PHYS161/174	Gen Physics & lab	4	F,Sp,Su	MATH141	

Advisor notes, approved course substitutions, etc.: