

ENSP – Marine & Coastal Management

Updated 7/14/21 - ABM

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

ENSP Core				General Education		
All three				Fundamental Studies (15 credits)		
ENSP101 (NS)	Intro to Env Science	Fa		Requirements	Course	Cr
ENSP102 (HS)	Intro to Env Policy	Sp		Academic Writing (AW)		3
ENSP400 (SP)	Senior Capstone	Fa,Sp		Professional Writing (PW)		3
Applied Science & Policy (pick one)				Oral Communication (OC)		3
ENSP305	Applied Quant. Methods in Env. Sci & Policy Environmental Law Sci, Ethics, Law: Water Energy: Science & Policy	Sp		Math (MA)	Calculus	3-4
ENSP330		Fa, Sp		Analytical Reasoning (AR)	GEOG306	
ENSP340		Fa		Distributive Studies (25 credits)		
ENSP350		TBA		Requirements	Course	Cr
Calculus (pick one)				Natural Sciences w/Lab (NL)	ENSP Lab Sci	4
MATH120 (MA) or MATH140 (MA)	Elementary Calculus Calculus I (<i>strongly recommended</i>)	Fa,Sp,Su		Natural Science (NS)	ENSP 101	3
Statistics (one)				History and/or Social Sci (HS1)	ENSP 102	3
BIOM301 (AR) or GEOG306 (AR) **	Intro to Biometrics Intro to Quant Methods	Fa,W,Sp Sp,Su,W		History and/or Social Sci (HS2)		4
** recommended				Humanities (HU1)		3
One course from each category as indicated below:				Humanities (HU2)		3
Biology				Scholarship in Practice (SP, major)	ENSP 400	3
BSCI160/161 (NL)	Ecology & Evolution/Lab	Fa,Sp,Su		Scholarship in Practice (SP, non-major)		3
Chemistry				I-Series (6 credits)*		
CHEM131/132 (NL)	Gen Chemistry I/Lab	Fa,Sp,Su		* May double-count with Distributive Studies		
Earth Sci (both req'd)				Requirements	Course	Cr
GEOG201/211 (NL)	Geog Environ Sys/Lab Weather and Climate	Fa,Sp,Su		I- Series (IS)	AOSC200	3
AOSC200/201 (IS)		Fa,Sp		I- Series (IS)		3
Economics (pick one)				Diversity (4-6 credits)*		
AREC240 (HS)	Intro to Econ and Env Env, Econ, and Policy Princ of Microeconomics	Sp		* May double-count with Distributive Studies		
AREC241 (HS, IS)		Fa		Requirements	Course	Cr
ECON200		Fa,Sp,Su		Understanding Plural Societies (UP)		3-6
Geography (pick one)				Understanding Plural Societies (UP) <i>or</i> Cultural Competency (CC)		0-3
GEOG130 (HS)	Developing Countries Natural Disasters Meth of Geospatial Anal	Fa,Su		Experiential Learning (0-3 credits)*		
GEOG140 (IS)		Fa, Sp		* May overlap with major requirements		
GEOG170 (NS)		Fa		Requirements	Course	Cr
ENSP Graduation Requirements				Practical experience is <i>required</i> in this concentration		
_____ Students must earn <u>C- or higher</u> in all courses used for ENSP Core and Concentration requirements.				Graduation Requirements		
_____ Students' major GPA must be 2.0 or higher.				_____ <u>Up to 6 AP courses</u> may 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 – 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 272	Introduction to Earth Observation Science (Formerly GEOG372: Remote Sensing)	3	Fa,Su,W		
GEOG 373	Geog Info Sys and Spatial Anal.	3	Sp,Fa,W,Su		

>>> SYNTHESIS: 3 credits

Course	Description	Cr	Offered	Prerequisites	Grade
ENSP 386	Internship	3	F,Sp	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 perm.</i>	
AOSC 401	Global Environment	3	Sp	AOSC 400	
BSCI 361	Ecology	4	F,Sp,Su	BSCI 160/161 and Calculus	
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 perm</i>	
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	Political Ecology	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.: