

ENSP – Biodiversity & Conservation Biology

Effective -- Fall 2016

Updated 4.19.19 - ABM

Effective Fall 2010, all students must meet LEP requirements to gain admission to ENSP-Biodiversity. Courses indicated in **RED** must be completed *prior to* applying for admission to this concentration. Additional details here: <http://cmns.umd.edu/cmnsmajorchange>

ENSP Core				General Education			
				Fundamental Studies (15 credits)			
Course	Title	Offered	Grade	Requirements	Course	Cr	
All				Academic Writing (AW)			
ENSP101 (NS)				Intro to Env Science			3
ENSP102 (HS)				Intro to Env Policy			
ENSP400 (SP)				Senior Capstone			
Applied Science and Policy (one)				Professional Writing (PW)			3
ENSP305				Quant. Methods			3
ENSP330				Environmental Law			3-4
ENSP340				Sci, Ethics, Law: Water			
ENSP342				Oceans: Integ. Policy			
ENSP350				Energy: Science & Policy			
Calculus (one)				Math (MA)			3-4
MATH120 (MA)				Elementary Calculus			
MATH130 (MA)				Calculus for Life Sciences			
MATH140 (MA)				Calculus I (<i>recommended</i>)			
Statistics (one)				Analytical Reasoning (AR)			
BIOM301 (AR)				Intro to Biometrics			
GEOG306 (AR)				Intro to Quant Methods			
PSYC200 (AR)				Stat Methods in Psysc			
Four (4) courses from the 5 groups below:				Distributive Studies (25 credits)			
Biology (req'd)				Requirements			
BSCII60/161 (NL)				Natural Sciences w/Lab (NL)			4
Ecology & Evolution/Lab				ENSP Lab Sci			3
Chemistry (req'd)				Natural Science (NS)			3
CHEM131/132 (NL)				Gen Chemistry I/Lab			3
Earth Sci (req'd)				History and/or Social Sci (HS1)			3
GEOG201/211 (NL)				Geog Environ Sys/Lab			4
Economics (one)				History and/or Social Sci (HS2)			3
AREC240 (HS)				Humanities (HU1)			3
AREC241 (HS, IS)				Humanities (HU2)			3
ECON200 (HS)				Scholarship in Practice (SP, major)			3
Geography (one)				Scholarship in Practice (SP, non-major)			3
GEOG130 (HS)				I-Series (6 credits)*			
GEOG140 (IS)				* May double-count with Distributive Studies			
GEOG170 (NS)				Requirements			
GEOG202 (CC)				I- Series (IS)			3
ENSP Graduation Requirements				Diversity (4-6 credits)*			
_____ Students must earn <u>C-</u> or higher in all courses used for ENSP				* May double-count with Distributive Studies			
_____ Students' major GPA must be 2.0 or higher.				Requirements			
				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			
				Practical experience is <i>recommended</i> in			
				this concentration			
				Graduation Requirements			
				_____ Up to 6 AP courses 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			

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REQUIREMENTS (32-33 cr): Students may use BSCI160/161 or BSCI170/171 for LEP admission purposes. For updated LEP requirements, go to: <http://www.lep.umd.edu/cmns-lep.pdf>

Course	Description	Cr	Offered	Prerequisites	Grade
BSCI 170/171	Molecular and Cellular Biol/Lab	4	Sp, F, Su	Placement in MATH 120 or higher.	
BSCI 207	Organismal Biology	3	Sp, F	BSCI 160/161, BSCI 170/171 and CHEM	
BSCI 222	Principles of Genetics	4	Sp, F, Su	BSCI 170/171, 1 year college chemistry	
BSCI 361	Principles of Ecology	4	Sp, F	BSCI 160/161 and Calculus	
BSCI 363	Biology of Cons and Extinction	3	F	BSCI361	
BSCI 370	Principles of Evolution	3	Sp, F	BSCI 160/161	
CHEM 231/232	Organic Chemistry I / Lab	3/1	Sp, F, Su	CHEM 131/132	
CHEM 241/242	Organic Chemistry II / Lab	3/1	Sp, F, Su	CHEM 231/232	
Select one:					
MATH 141	Calculus II	4	Sp, F, Su	MATH 140 or equivalent	—
MATH 131	Calculus II for Life Sciences	4	Sp, F, Su	MATH 130 or 140	—
MATH 121	Elementary Calculus II	3	Sp, F, Su	MATH 120, 130, or 140, or equivalent	

RESTRICTED ELECTIVES (15 credits, including at least one laboratory (L) course):

Course	Description	Cr	Offered	Prerequisites	Grade
BSCI 334/335	Mammalogy	3/1 (L)	Sp	BSCI 160/161	
BSCI 337	Biology of Insects	4 (L)	F	BSCI 160/161	
BSCI 338	Special Topics in Biology	1-4	Varies	Varies – Must be approved by advisor	
BSCI 338Q	Spec. Top. Conservation Lab	1 (L)	Sp	To be taken concurrently w/BSCI 363.	
BSCI 360	Principles of Animal Behavior	3	F, Su	BSCI 160/161, 170/171, and 222	
BSCI 392	Biology of Extinct Animals	3	F	BSCI 160/161 and BSCI 207	
BSCI 393	Biology of Extinct Animals Lab.	1 (L)	F	Pre- or co-requisite: BSCI 392	
BSCI 460	Plant Ecology	3	TBA	BSCI 160/161	
BSCI 461	Plant Ecology Laboratory	2 (L)	F	Pre- or corequisite: BSCI 460	
BSCI 462	Population Ecology	3	S	BSCI 160/161 and Calculus	
BSCI 465	Behavioral Ecology	3	Varies		
BSCI 467	Freshwater Biology	4 (L)	F	Prereq: BSCI 207 or dept. perm.	
BSCI 473	Marine Ecology	3	Sp	BSCI 207.	
BSCI 480	Arthropod Form and Function	4 (L)	Sp	Permission from BSCI office.	
BSCI 481	Insect Diversity and Classification	4 (L)	F	BSCI 207 or dept. perm.	
ENSP 386	Internship	3	Sp,Su,Fa	ENSP386 Intern. prop. (approved in adv.)	
ENST 314	Fisheries Mgmt and Sustainability	3	Sp	Prereq: one year of biology. Offered in Spring of "even" years (2016, 2018, etc.)	
ENST 373	Natural Hist of the Ches. Bay	3	Fa	a course in biology or dept. perm.	
ENST 450	Wetland Ecology	3 (L)	F	BIOM 301. Offered "even" years, e.g., Fall 2016, 2018, etc.	
ENST 460	Principles of Wildlife Management	3	Fa	BSCI361; 2 semesters of lab. Biology	
ENST 461	Urban Wildlife Management	3	F	-	
ENST 479	Tropical Ecol and Resource Mgmt	3	Sp	BSCI 160/161 and perm. Course has required travel-study component.	
GEOG 372	Remote Sensing	3	F,W,Sp,Su		
GEOG 373	Geographic Information Systems	3	F,W,Sp,Su		
GEOG 418	Field & Lab Tech in Env Science	3 (L)	F	The field component takes place in summer. Contact instructor for info and perm.	
GEOG 442	Biogeography	3	F	BSCI 361 or GEOG 342 or equivalent	
GEOL 453	Ecosystem Restoration	3	F	Calculus, CHEM131/132, and (GEOL100 or ENST200).	
PLSC 471	Forest Ecology	3	Sp	BSCI 160/161 or PLSC 201	
PLSC 481	Vegetation Assessment	2 (L)	Sp	GEOG306 recommended.	
PLSC 4890	Plant Taxonomy	3 (L)	Sp		

Study abroad and graduate-level courses may be acceptable; please contact your advisor *in advance* for approval.

Advisor notes and approved course substitutions, etc: