

ENSP – Biodiversity & Conservation Biology

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>

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																													
Course				Fundamental Studies (15 credits)																													
Title				Requirements	Course	Cr																											
Offered				Distributive Studies (25 credits)																													
Grade				Requirements	Course	Cr																											
All				I-Series (6 credits)*																													
ENSP101 (NS) ENSP102 (HS) ENSP400 (SP)				* May double-count with Distributive Studies																													
Intro to Env Science Intro to Env Policy Senior Capstone				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;">Course</th> <th style="width: 25%; text-align: center;">Cr</th> </tr> </thead> <tbody> <tr> <td>Academic Writing (AW)</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Professional Writing (PW)</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Oral Communication (OC)</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Math (MA)</td> <td>Calculus</td> <td style="text-align: center;">3-4</td> </tr> <tr> <td>Analytical Reasoning (AR)</td> <td>Statistics</td> <td></td> </tr> </tbody> </table>				Course	Cr	Academic Writing (AW)		3	Professional Writing (PW)		3	Oral Communication (OC)		3	Math (MA)	Calculus	3-4	Analytical Reasoning (AR)	Statistics										
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Math (MA)	Calculus	3-4																															
Analytical Reasoning (AR)	Statistics																																
Applied Science and Policy (one) ENSP305 ENSP330 ENSP340 ENSP342 ENSP350				Diversity (4-6 credits)*																													
Applied Quant. Methods in Env. Sci & Policy Environmental Law Sci, Ethics, Law: Water Oceans: Integ. Policy Energy: Science & Policy				* May double-count with Distributive Studies																													
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Calculus (one) MATH120 (MA) MATH130 (MA) MATH140 (MA)				Experiential Learning (0-3 credits)*																													
Elementary Calculus Calculus for Life Sciences Calculus I <i>(recommended)</i>				* May overlap with major requirements																													
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Statistics (one) BIOM301 (AR) GEOG306 (AR) PSYC200 (AR)				Graduation Requirements																													
Intro to Biometrics Intro to Quant Methods Stat Methods in Psyc				_____ 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 and 2.0+ cum GPA																													
Fa,W,Sp Sp,Su,W Fa,Sp,Su																																	
Four (4) courses from the 5 groups below:																																	
Biology (req'd) BSCI160/161 (NL)																																	
Ecology & Evolution/Lab																																	
Fa,Sp,Su																																	
Chemistry (req'd) CHEM131/132 (NL)																																	
Gen Chemistry I/Lab																																	
Fa,Sp,Su																																	
Earth Sci (req'd) GEOG201/211 (NL)																																	
Geog Environ Sys/Lab																																	
Fa,Sp,Su																																	
Economics (one) AREC240 (HS) AREC241 (HS, IS) ECON200 (HS)																																	
Intro to Econ and Env Env, Econ, and Policy Princ of Microeconomics																																	
Sp Fa Fa,Sp,W																																	
Geography (one) GEOG130 (HS) GEOG140 (IS) GEOG170 NS) GEOG202 (CC)																																	
Developing Countries Natural Disasters Meth of Geospatial Anal Intro to Human Geog																																	
Fa,Su Fa, Sp Fa Sp																																	
ENSP Graduation Requirements																																	
_____ Students must earn C- or higher in all courses used for ENSP Core and Concentration requirements. _____ Students' major GPA must be 2.0 or higher.																																	

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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	BSCI160/161, BSCI170/171, CHEM131/132	
BSCI 222	Principles of Genetics	4	Sp, F, Su	BSCI160/161, BSCI 170/171, 1 year college chemistry	
BSCI 361	Principles of Ecology	4	Sp, F	BSCI160/161 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 & BSCI207	
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,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: