

ENSP – Wildlife Ecology and Management

EFFECTIVE – Spring 2016

Last reviewed – 3/24/16 – WW

ENSP Core				General Education		
All				Fundamental Studies (15 credits)		
Course	Title	Offered	Grade	Requirements	Course	Cr/AP/IB/D
ENSP101 (NS)	Intro to Env Science	Fa		Academic Writing (AW)		3
ENSP102 (HS)	Intro to Env Policy	Sp		Professional Writing (PW)		3
ENSP400 (SP)	Capstone	Fa,Sp		Oral Communication (OC)		3
Calculus (one)				Distributive Studies (25 credits)		
MATH220 (MA)	Elementary Calculus	Fa,Sp,Su	Grade	Math (MA)	Calculus	3-4
MATH140 (MA)	Calculus I (rec.)	Fa,Sp,Su		Analytical Reasoning (AR)	GEOG306	3
Statistics (one)				Requirements		
BIOM301 (AR)	Intro to Biometrics	Fa,W,Sp	Grade	Natural Sciences w/Lab (NL)	ENSP Lab Sci	4
GEOG306 (AR) **	Intro to Quant Methods	Fa,Sp,Su,W		Natural Science (NS)	ENSP 101	3
<i>** strongly recommended</i>				History and/or Social Sci (HS1)	ENSP 102	3
All 3 courses below:				History and/or Social Sci (HS2)		4
Biology				Humanities (HU1)		3
BSCI106 (NL)	Principles of Biology II	Fa,Sp,Su	Grade	Humanities (HU2)		3
Chemistry				Scholarship in Practice (SP, major)	ENSP 400	3
CHEM131/132 (NL)	General Chemistry I	Fa,Sp,Su	Grade	Scholarship in Practice (SP, non-major)		3
Earth Sci				I-Series (6 credits)*		
ENST200 (NL)	Fund of Soil Science	Fa	Grade	* May double-count with Distributive Studies		
And 1 course from 2 categories below:				Requirements	Course	Unique cr
Economics (one)				I- Series (IS)		3
AREC240 (HS)	Intro to Econ and Env	Sp	Grade	I- Series (IS)		3
AREC241 (HS, IS)	Env, Econ, and Policy	Fa		Diversity (4-6 credits)*		
ECON200 (HS)	Princ of Micro-Econ	F,S,Su,W		* May double-count with Distributive Studies		
Govt /Pol (one)				Requirements	Course	Cr/AP/Unique
ENSP330	Environmental Law	Fa, Sp	Grade	Understanding Plural Societies (UP)		3-6
ENSP340	Sci, Ethics, Law: Water	Fa		Understanding Plural Societies (UP)		0-3
ENSP342	Oceans: Integ. Policy	Sp		Experiential Learning (0-3 credits)*		
GVPT273 (SP)	Intro to Env Politics	Sp		* May overlap with major requirements		
Geography (one)				Requirements	Course	Cr
GEOG100 (HS)	Intro to Geography	Fa,Su	Grade	An internship is required in this concentration.	ENSP 386	3
GEOG130 (HS or SP)	Developing Countries	Fa,Su		Graduation Requirements		
GEOG140 (IS)	Natural Disasters	Fa		_____ Up to 6 AP courses may be used for Gen Ed		
GEOG202 (CC)	World in Cultural Persp	Sp,Su		_____ There are at least 40 non-overlapping Gen Ed credits		
ENSP Graduation Requirements				_____ No more than 60 credits earned from Community College		
_____ Students must earn C- or higher in all courses used for ENSP Core and Concentration requirements.				_____ Last 30 credits must be earned at Maryland		
_____ Students' major GPA must be 2.0 or higher.				_____ 120+ cumulative credits <i>and</i> 2.0+ cum GPA		

ENSP – Wildlife Ecology and Management (cont'd)

REQUIREMENTS (25-26 credits):

Course	Description	Cr	Offered	Prerequisites	Grade
BSCI 105	Principles of Biology	4	F,Sp,Su	Math 220 placement	
ENST 214	Intro to Fish and Wildlife Sciences	3	Fa	BSCI 106	
BSCI 222	Principles of Genetics	4	F,Sp,Su	BSCI 105, 1 year college chemistry	
CHEM 231/232	Organic Chemistry I (with lab)	3/1	Sp	CHEM 131/132	
PHYS 121	Fundamentals of Physics I	4	F,Sp,Su	Math 220 recommended	
BSCI 361	Principles of Ecology	4	F, Sp	BSCI 106 and MATH 220	
ENST 460	Principles of Wildlife Management	3	Fa	ENST214	

INTERNSHIP/RESEARCH (3-6 credits):

Course	Description	Cr	Offered	Prerequisites	Grade
ENSP 386 <i>or</i> ENSP 499	Internship <i>or</i> Honors Thesis Research	3	F,Sp,Su F,Sp,Su	Approved proposal Permission of advisor	

RESTRICTED ELECTIVES (21-22 credits, including at least 3 courses and 9 credits each in Area 1 and Area 2).

Other courses may be approved with advisor approval *in advance*. *Count credits carefully to be sure they add up.*

>>> Area 1 – Ecological and Taxonomic Dimensions

Course	Description	Cr	Offered	Prerequisites	Grade
BSCI 207	Organismal Biology	3	F, Sp	BSCI 105, BSCI 106, and CHEM 131/132	
BSCI 334	Mammalogy	3	Sp	BSCI 106. Strongly rec. for students interested in grad school or certification as a Wildlife Biologist.	
BSCI 335	Mammalogy Lab	1	Sp		
BSCI 337	Biology of Insects	4	Sp	BSCI 106	
BSCI 363	Biology of Conserv and Extinction	3	Sp	BSCI 106	
BSCI 338Q	Conservation Lab	1	Sp	Co-req. BSCI 363	
BSCI360	Principles of Animal Behavior	3	F, Sp	BSCI105, 106, and 222.	
BSCI 370	Evolution	3	F	BSCI 106	
BSCI392	Biology of Extinct Animals	3	F	BSCI106	
BSCI 394	Vertebrate Form and Function	3	Su		
BSCI442 /PLSC400	Plant Physiology	4	F	BSCI105 and CHEM231/232	
BSCI 460	Plant Ecology	3	F	BSCI 106	
BSCI 462	Population Ecology	3	S	BSCI 106 and MATH 220	
BSCI 473	Marine Ecology	3	Sp	BSCI 207	
BSCI481	Insect diversity and classification	4	F	BSCI337	
BSCI 494	Animal-Plant Interactions	3	Sp	BSCI 106 and BSCI 207	
ENST 450	Wetland Ecology	3	F	BIOM301. Offered in "even" years: 2016, 2018	
GEOL 331	Principles of Paleontology	4	F	GEOL102 or perm.	
PLSC 253	Woody Plant Material I	3	F	PLSC100 or perm. Strongly rec. for students interested in certification as a Wildlife Biologist.	
PLSC 254	Woody Plant Material II	3	Sp	PLSC 100 or BSCI 226	
PLSC 471	Forest Ecology	3	Sp	BSCI 106 or PLSC 201	

>>> Area 2 – Management.

Course	Description	Cr	Offered	Prerequisites	Grade
ANSC 252	Intro to the Diseases of Wildlife	3	F	BSCI 105 or perm.	
ANSC 453	Animal Welfare	3	Sp	BSCI 106 or ANSC 101	
ENSP 305	Applied Quant. Analysis	3	Sp	ENSP101 and 102; MATH220 or higher; and Statistics.	
ENST333	Ecosystem Health and Protection	3	F	ENST233 and dept. perm.	
GEOG 373	Geographic Information Systems	3	F,W,Sp,Su		
ENST 314	Fisheries Mgmt and Sustainability	3	Sp*	ENST214. Offered Spring of even years (2016, etc)	
ENST 404	Natural Resources & Env Ethics	3	Sp	ENST214. Offered Spring of odd years (2017, etc.)	
ENST 406	Applied Forestry Practices	3	Sp	ENST200 and (BSCI361 or PLSC471)	
ENST 461	Urban Wildlife Management	3	F		
ENST 462	Field Techniques in Wildlife Mgt	3	Sp	ENST460. Note: this is a 2-credit course.	
ENST 479	Tropical Ecol and Resource Mgt	3	Sp	BSCI 106. Course has required travel-study.	
ENST489D	Ecol and Mgmt of Wildlife Habitats	3	Sp	GEOG373	
ENST465	Ecol and Mgmt of Wild Hab (Lab)	1	Sp	Co-req: ENST489D	