

2011-2012 Curricula for Bachelor of Science Degree Environmental and Natural Resources

ENR – Conservation Biology Concentration

Freshman Year					
First Semester			Second Semester		
BIOL 103	General Biology I	3	BIOL 104	General Biology II	3
BIOL 105	General Biology Lab. I	1	BIOL 106	General Biology Lab. II	1
CH 101	Chemistry Requirement	4	CH 102	Chemistry Requirement	4
MTMSC 102	Intro. to Mathematical Analysis	3	EX ST 301	Introductory Statistics	3
ENR 101	Intro to Environment & Natural Resources	1	ENGL 103	Accelerated Composition	3
Oral Communication Requirement ¹		3	FNR 102	FNR Freshman Portfolio	1
Semester Hours: 15			Semester Hours: 15		
Sophomore Year					
First Semester			Second Semester		
AP EC 257	Natural Resources, Environment & Economics	3	GEN 300	Fundamental Genetics	3
BIOSC 320 AND ---	Field Botany	4	WFB 313	Conservation Biology	3
	Elective	1	Physical Environment Requirement ²		
OR			Taxonomy/Habitat Requirement ³		
FOR 205 AND FOR 221	Dendrology	2	Arts and Humanities (Literature) Requirement ¹		
	Forest Biology	3			
FNR 204 OR CSENV 202	Soil Information Systems	4			
	Soils	4			
CH 223	Organic Chemistry	3			
Semester Hours: 15			Semester Hours: 15		
Junior Year					
First Semester			Second Semester		
BIOSC 335	Evolutionary Biology	3	ENGL 314	Technical Writing	3
Arts and Humanities (non-literature) Requirement ¹		3	ENR 302	Natural Resources Measurements	3
Ecology Requirement ⁴		3	Ecology Requirement ⁴		
Natural Resource Economics Requirement ⁵		3	Physiology Requirement ⁵		
Taxonomy/Habitat Requirement ³		3	Taxonomy/Habitat Requirement ³		
Semester Hours: 15			Semester Hours: 15		
Senior Year					
First Semester			Second Semester		
Social Science Requirement ¹		3	ENR 413	Restoration Biology	3
FOR 434	GIS for Landscape Planning	3	ENR 450	Conservation Issues	3
Conservation Policy/Law Requirement ⁷		3	FOR 498 OR WFB 498	Senior Portfolio	1
Internship, Creative Inquiry or Directed Research ⁸		3		Senior Portfolio	1
Taxonomy/Habitat Requirement ³		3	Taxonomy/Habitat Requirement ³		
			Elective		
Semester Hours: 15			Semester Hours: 15		

120 Total Semester Hours

¹ See General Education Requirements. Three of these credits must also satisfy the Cross-Cultural Awareness Requirement.

(Note: Social Science Requirement must be in an area other than economics or applied economics)

² GEOG 106, GEOL 101, or PHYS 240

³ AG M 301, BIOSC 302/306, 303/307, 304/308, 305/309, 320, 406/407, 410/411, 417, 442, 464, 468, 472, 477, 486, CSENV 404, ENT (BIOSC) 301, (BIOSC,WFB) 469, FOR 251, 406, GEOL 112, 114, 210, 403, MICRO 403, WFB 300, 418, 440, 462 or 476. At least four of the courses must be laboratories or courses with a required laboratory component.

⁴ BIOSC 441, 442, 443, 446, 470, or FNR 466

⁵ AVS 301, BIOSC 401/402, 458, 475, or (AVS)480

⁶ AP EC 433, 475, CRD (AP EC) 357, or FOR 304

⁷ ENR 429, FOR 400, 416 or WFB 430

⁸ Internship (FNR 490), Creative Inquiry (FNR 470), Directed Research (WFB 463) or FNR 491 Senior Honors Thesis

ENR – Natural Resource and Economic Policy Concentration

Freshman Year					
First Semester			Second Semester		
BIOL 103	General Biology I	3	BIOL 104	General Biology II	3
BIOL 105	General Biology Lab. I	1	BIOL 106	General Biology Lab. II	1
CH 105 or 101	Chemistry Requirement ¹	4	CH 106 or 102	Chemistry Requirement ¹	4
MTHSC 102	Intro. to Mathematical Analysis	3	EX ST 301	Introductory Statistics	3
ENR 101	Intro to Environment & Natural Resources	1	ENGL 103	Accelerated Composition	3
Oral Communication Requirement ²		3	FNR 102	FNR Freshman Portfolio	1
Semester Hours: 15			Semester Hours: 15		
Sophomore Year					
First Semester			Second Semester		
AP EC 257	Natural Resources, Environment & Economics	3	AP EC (CRD) 357	Natural Resources Economics	3
Natural Science or Minor ³		3	ECON 212	Principles of Macroeconomics	3
Geography Requirement ⁴		3	Arts and Humanities (Non-Lit) Requirement ²		
PO SC 101 OR	Amer. Nat. Gov.	3	Literature Requirement ²		
PO SC 102	Intro to International Relations	3	Elective		
Elective		3			
Semester Hours: 15			Semester Hours: 15		
Junior Year					
First Semester			Second Semester		
ENR 429	Environmental Law and Policy	3	AP EC 475	Wildlife Economics	3
ECON 314	Intermediate Microeconomics	3	Natural Science or Minor ²		
Natural Science or Minor ³		3	EX ST 462	Statistics Applied to Economics	3
Advanced Writing Requirement ²		3	ENSP 400	Studies in Environmental Science	3
Applied Economics Requirement ⁵		3	Macroeconomics Requirement ⁶		
Semester Hours: 15			Semester Hours: 15		
Senior Year					
First Semester			Second Semester		
AP EC 457	Nat. Res. Econ. Theory & Policy	3	ENR 450	Conservation Issues	3
ECON 39	Environmental Economics	3	Community Development Requirement ⁸		
Internship, Creative Inquiry or Directed Research ⁷		3	APEC Requirement ⁵		
APEC Requirement ⁵ OR		6	Elective OR Minor		
APEC Requirement ⁵ AND		3			
Minor		3			
Semester Hours: 15			Semester Hours: 15		

120 Total Semester Hours

¹ Conservation Biology Concentration or students planning on taking organic chemistry must take CH 101 and CH 102 (Note: Social Science Requirement must be in an area other than economics or applied economics)

² See General Education Requirements. Students must also select a course to satisfy the University's Cross-Cultural Awareness Requirement.

³ Choose from 300 or 400 level BIOSC, CSENV, ENR, EE&S, ENSP, ENTOX, FOR, GEOL, or WFB

⁴ GEOG 101, 103, or 106

⁵ Choose from 300 or 400 level AP EC

⁶ ECON 302, 310, or 315

⁷ Internship (AP EC 491), Creative Inquiry (AP EC 494), AGRIC H491 or H492 Senior Honors Thesis

⁸ CRD 335 or 336 or RS 401 or 459

ENR – Natural Resources Management Concentration

Freshman Year					
First Semester			Second Semester		
BIOL 103	General Biology I	3	BIOL 104	General Biology II	3
BIOL 105	General Biology Lab. I	1	BIOL 106	General Biology Lab. II	1
CH 105 OR 101	Chemistry Requirement ¹	4	CH 106 OR 102	Chemistry Requirement ¹	4
MTHSC 102	Intro. to Mathematical Analysis	3	EX ST 301	Introductory Statistics	3
ENR 101	Intro to Environment & Natural Resources I	1	ENGL 103	Accelerated Composition	3
Oral Communication Requirement ²		3	FNR 102	FNR Freshman Portfolio	1
Semester Hours: 15			Semester Hours: 15		
Sophomore Year					
First Semester			Second Semester		
FNR 204 OR CSENV 202	Soil Information Systems Soils	4 4	ENR 302	Natural Resources Measurements	3
FOR 205	Dendrology	2	FOR 206	Forest Ecology	3
FOR 221	Forest Biology	3	WFB 350	Principles of Fish & Wildlife Biology	3
WFB 300	Wildlife Biology	3	Arts and Humanities (Non-Lit) Requirement ²		3
Arts and Humanities (Literature) Requirement ²		3	Social Science Requirement ²		3
Semester Hours: 15			Semester Hours: 15		
Junior Year					
First Semester			Second Semester		
AP EC 257	Natural Resources, Environment & Economics	3	CRD 357	Natural Resources Economics	3
BIOSC 320 OR	Field Botany	4	GEOL 101	Physical Geology	3
BIOSC 406 AND BIOSC 407	Introductory Plant Taxonomy Plant Taxonomy Lab	3 1	GEOL 103	Physical Geology Laboratory	1
ENR 429 OR FOR 400	Environmental Law and Policy Public Relations in Natural Resources	3 3	WFB 313	Conservation Biology	3
Elective		3	Minor ³		6
Minor ³		3			
Semester Hours: 16			Semester Hours: 16		
Senior Year					
First Semester			Second Semester		
FOR 416	Forest Policy and Admin.	3	ENGL 314	Technical Writing	3
FOR 434	GIS for Landscape Planning	3	ENR 450	Conservation Issues	3
Internship, Creative Inquiry or Directed Research ⁴		3	FOR 406	Forested Watershed Management	2
Elective		3	FOR 498 OR WFB 498	Senior Portfolio Senior Portfolio	1 1
Minor ³		3	WFB 462	Wetland Wildlife Biology	3
			Minor ³		3
Semester Hours: 15			Semester Hours: 15		

121 Total Semester Hours

¹ Conservation Biology Concentration or students planning on taking organic chemistry must take CH 101 and CH 102

² See General Education Requirements. Three of these credits must also satisfy the Cross-Cultural Awareness Requirement.
(Note: Social Science Requirement must be in an area other than economics or applied economics.)

³ Minor: A minor is req. & must be selected from the following: Biochem.; Biol. Sci.; Chem.; Comm. Rec., Sport, & Camp Mgmt.; Crop & Soil Env. Sci.; Env. Sci. & Pol.; For. Res. Mgmt.; Geol.; Hort.; Legal Studies; Microbiol.; Nat. Res. Econ.; Nonprofit Leadership; Park & Protected Area Mgmt.; Therapeutic Rec.; Travel & Tourism; Urban For.; Wildlife & Fisheries Biol.

⁴ Internship (FNR 490), Creative Inquiry (FNR 470), Directed Research (WFB 463) or FNR 491 Senior Honors Thesis