THE UNIVERSITY OF RHODE ISLAND

Wildlife and Conservation Biology

EL_WCB_BS

120 Credits Total

web.uri.edu/nrs/

Student ID:
Advisor:

web.uri.edu/nrs/

<u>General Education Guidelines:</u> General education is 40 credits. Each of the twelve outcomes (A1-D1) must be met by at least 3 credits. A single course may meet more than one outcome, but cannot be double counted towards the 40 credit total. At least one course must be a Grand Challenge (G). No more than twelve credits can have the same course code (note- HPR courses may have more than 12 credits). General education courses may also be used to meet requirements of the major or minor when appropriate.

LIST COURSES THAT MEET GENERAL EDUCATION:

				GENERALI		
	Gener	ral Educ	cation	n Credit Cou	nt	
A	At least 40 credits, no more than 12 credits					
	W	1th the s	ame (course code	_	
Course	Credit	Grade		Course	Credit	Grade
*NRS100	3					
*BIO101	3					
*BIO103	1					
*BIO102	3					
*BIO104	1					
*CHM103	3					
*MTH131	3					
*EEC105	3					
				Total Gen		
				Ed Credits		

NOTE: BECAUSE MOST COURSES MEET MORE THAN ONE OUTCOME, YOUR OUTCOME AUDIT MIGHT BE COMPLETED BEFORE YOU REACH YOUR 40 CREDITS. HOWEVER, YOU MUST STILL COMPLETE 40 CREDITS OF GENERAL EDUCATION

LIST COURSE AS EACH OUTCOME IS MET:

General Education Outcome Audit			
	Course		
KNOWLEDGE			
A1. STEM	*NRS100		
A2. Social & Behavioral Sciences	*EEC105		
A3. Humanities			
A4. Arts & Design			
COMPETENCIES			
B1. Write effectively			
B2. Communicate effectively			
B3. Mathematical, statistical, or	*MTH131		
computational strategies	WIIII131		
B4. Information literacy			
RESPONSIBILITIES			
C1. Civic knowledge &			
responsibilities			
C2. Global responsibilities			
C3. Diversity & Inclusion			
INTEGRATE & APPLY			
D1. Ability to synthesize			
GRAND CHALLENGE			
G. At least one course of your 40			
credits is an approved "G" course			
(NRS330G recommended - A1, C2, G)			

Transfer out of University College for Academic Success Requirement: Must have completed at least 30 credits with a minimum
cumulative 2.0 GPA, as well as a grade of C or better in BIO 101/103, 102/104, and NRS 100.

Advising Notes:		

^{*}course fulfills general education and a major requirement

THE UNIVERSITY OF RHODE ISLAND

Wildlife & Conservation Biology	Student:	
EL_WCB_BS	Student ID:	
120 Earned Credits Total	Advisor:	

ABOUT THE BS in WILDLIFE & CONSERVATION BIOLOGY:

Students enrolled in the Wildlife & Conservation Biology major study a combination of the natural sciences and principles of managing wildlife populations and their habitats. This major is one of very few in the United States that fulfills the educational requirements for certification as an Associate Wildlife Biologist by The Wildlife Society, the international organization for professionals in the wildlife field. It also provides an excellent foundation for graduate school. The URI Student Chapter of The Wildlife Society is heavily involved with career-related activities. web.uri.edu/nrs/wildlife-and-conservation-biology/.

REVIEW YOUR PROGRAM REQUIREMENTS

Intro to URI & NRS (2 credits)				
Course	Semester	Credits	Grade	
URI 101		1		
NRS 101		1		

Intro. Professional Courses (19 credits)				
Course	Semester	Credits	Grade	
BIO 262		4		
*EEC 105		3		
*NRS 100		3		
NRS 200		1		
NRS 212		4		
NRS 223		4		

Basic Sciences (22-23 credits)				
Course	Semester	Credits	Grade	
*BIO 101		3		
*BIO 103		1		
*BIO 102		3		
*BIO 104		1		
*CHM 103		3		
CHM 105		1		
CHM 124		3		
CHM 126		1		
*MTH 131		3		
STA 308 (4) Or STA 409 (3)		3-4		

arses taken beyond the requirements of the major and general education to the the 120 credits required for graduation.			
Course Semester Credits Gra			
		•	

3 3 3-4	Grade
3	
3-4	
4	
ourses (9 -11 c ation Course I	
Credits	Grade
	urses (9 -11 c ation Course

Supporting Electives (at least 24 credits) Must include at least 6 credits from NRS. **See approved Supporting Elective list

Courses may be selected from **Concentration courses** or from **Supporting Electives** (see approved lists). Students interested in a career as a Wildlife Biologist with the federal government should include 3 credits of botany. Students interested in becoming a Certified Wildlife Biologist should include 3 credits in botany, 6 credits in zoology, 6 credits in resources policy or planning, and 6 credits in communication. Up to 12 credits of experiential learning courses may be taken. A maximum of 10 credits of exp. learning courses may be used for Concentration credit (letter grade only) and up to 12 credits of exp. learning courses may be used for Suppt. Electives (Letter Grade or S/U). **Senior Colloquium (NRS 480, 2 cr.) is strongly recommended.**

Course	Semester	Credits	Grade

Free Flectives

Minimum 2.0 GPA required in major for graduation.

Minimum 2.0 cumulative GPA required for graduation.

^{*}Courses approved for general education.

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Approved Concentration Courses (9 - 11 credits)				
Course (credits)	If seeking federal wildlife biologist (GS-486) job	If seeking TWS Wildlife Biologist Certification		
NRS 304 Field Ornithology (3)	X ¹	X ¹		
NRS 324 Mammalogy (4)	X ¹	X ¹		
*NRS 330G The Biodiversity Crisis (3) A1, C2, G				
NRS 401: Foundations in Restoration Ecology (4)				
NRS 402: Quantitave Wildlife Ecology (3)		X ²		
NRS 403: Quantitave Wildlife Ecology Field Investigations (1)				
NRS 406: Wetland Wildlife Management (4)				
NRS 407: Endangered Species Conservation (3)				
NRS 409 Concepts in GIS and Remote Sensing (4)				
NRS 410: Fundamentals of GIS (3)				
NRS 415: Remote Sensing of the Environment (3)				
NRS 417 Herpetology (4)	X ¹	X ¹		
NRS 419: Field experience in Herpetology (1)				
NRS 423: Wetland Ecology (4)				
NRS 475: Coral reef Conservation (3)				
NRS 491/492: NRS special projects (1-3) ³				
NRS 497 Cooperative Internship (6 or 12) ³				
NRS 516 Remote Sensing in Natural Resources Mapping (3)		X ²		
NRS 520: Quantitative Tech. in Natural Resource Research (3)		X ²		
NRS 522 Advanced GIS Analysis Of Environmental Data (3)		X ²		
NRS 533: Landscape Pattern And Change (3)				
BIO 366: Vertebrate Biology (3)	X ¹	X ¹		
BIO 455: Marine Ecology (3)				
BIO 467 Animal Behavior (3)	X ¹	X ¹		
BIO 480: Community Ecology (3)				
BIO 485: Salt Marsh Ecology (4)				
*CSC 201: Introduction to Computer Programming (4) B3		X ²		
*MTH 141: Introductory Calculus With Analytic Geometry (4) A1,B3		X ²		

¹ Select two of these five courses

Note: Courses marked with an asterisk (*) can be used to satisfy major and general education requirements.

² Select one of these six courses (NRS 402 recommended)

³ Maximum of 10 credits of experiential learning courses (letter grade courses only) can count for concentration credits

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WILDLIFE & CONSERVATION BIOLOGY APPROVED SUPPORTING ELECTIVES:

At least 24 credits taken from the following categories, of which **at least 6 credits** must be NRS courses, based on certification guidelines established by The Wildlife Society and federal government. Approved courses may change with availability or with approval of your advisor

Resource Policy, Administration, or
Land Use Planning (6 credits) ²
CPL 434 Intro. to Environmental Law (3)
*MAF 100 Human Use Marine Environment (3) A2, C1
MAF 120 New England & The Sea (3)
*MAF 220 Intro. Marine & Coastal Law (3) A2, C1
*MAF 312 International Politics of the Ocean (3) C2, D1
MAF 461 Coastal Zone Management (3)
MAF 471 Critical Island Studies (3)
MAF 484 Env. Analysis & Policy Coastal Mgt. (3)
*NRS 234G Introduction to Water Resources (3) A1, G
*NRS 300 Issues in Global Sustain.Dev. (3) A2, C2
*NRS 330G The Biodiversity Crisis (3) A1, C2, G
NRS 401 Foundations in Restoration Ecology (4)
NRS 424 Wetlands & Land Use (4)
*NRS 450G Soil Land Use and the Environment (3) D1, G; and
*NRS452G Soil, Water, and Land Use Investigation (1) D1, G
Communications (6 credits) ²
COM 202 Public Speaking (3)
COM 208 Argumentation and Debate (3)
COM 210 Persuasion: The Rhetoric of Influ. (3)
COM 221 Interpersonal Communication (3)
COM 251 Small Group Communication (3)
COM 310 Topics in Communication (3)
*JOR 110 Introduction to Mass Media (3) A3, C1
JOR 220 Media Writing (3)
JOR/PRS 340 Public Relations (3)
NRS442 Environmental Crisis Communication (3)
*WRT 201 Argument. & Persuasive Texts (3) B1, B4
WRT 235 Writing in Electronic Env. (4)
*WRT 332 Technical Writing (3) B1, B2
*WRT 334 Science Writing (3) B1, B2
imum of WRT 533 Grad. Writing in Life Sciences (3)
ot (letter od as Other Approved Supporting Electives
*GEO 103 Understanding the Earth (4) A1, B4
*MTH 103 Applied Precalulus (3) or *MTH 111 Precalculus (3) A1, B3 NRS 480 Colloquium (2) - strongly recommended
1485 460 Conoquium (2) - suongry recommended

¹ Select if considering federal biologist (GS-486) position

Note: Courses marked with an asterisk (*) can be used to satsify major and general education requirements.

² Select courses from these lists (Policy, Zoology, Communications) if considering TWS Wildlife Certification

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SAMPLE Four-Year Plan

Freshman Year Fall Semester

Course Code	Description	Cr
*NRS 100	Natural Resource Conservation	3
NRS 101	Freshman Inquiry into NRS	1
URI 101	Planning for Academic Success	1
*BIO 101/103	Principles of Biology I/ Lab	4
*MTH103, 111, or 131	Applied Precalculus, Precalculus, or Applied Calculus (based on placement)	3
	*General Education Course	3-4
		15 16

Freshman Year Spring Semester

Course Code	Description	Cr
NRS 223	Conservation Biology	4
*BIO 102/104	Principles of Biology II/ Lab	4
*CHM 103/105	Introductory Chemistry/ Lab	4
*MTH 131, or *General Ed.	Applied Calculus, or General Education Course	3-4
		15-16

Note: MTH131 is required for WCB majors. Math placement determines if a prerequisite is needed (MTH103 or 111).

Year 1 Milestones: Complete 30 credits with a cumulative gpa of 2.0 or higher. Transfer from UC to CELS. NRS100 & NRS223 (offered fall and spring). Grades of C or higher required in BIO101, 102, 103, 104, NRS100. Consider a summer internship.

Sophomore Year Fall Semester

Sophomore real ran Semester		
Course Code	Description	Cr
NRS 200	Seminar in Natural Resources	1
NRS 212	Intro to Soil Science	4
BIO 262	Introductory Ecology	4
*EEC 105	Intro to Resource Economics	3
	*General Education Course	3-4
		15-16

Sonhomore Vear Spring Semester

50	Sophomore real spring Semester		
Course Code	Description	Cr	
NRS 305	Principles of Wildlife Ecology & Mgt.	3	
CHM 124/126	Intro. to Organic Chemistry/Lab	4	
STA 308	Introductory Statistics	4	
	*General Education Course	3	
	Free Elective	3	
		15-17	

Year 2 Milestones: Complete 60 credits with a cumulative gpa of 2.0 or higher. NRS200 & NRS212 (offered fall only), NRS305 (offered spring only). BIO262 should be completed sophomore year. Meet with faculty advisor to plan jr/sr year courses and discuss internship/research/study abroad opportunities.

Junior Year Fall Semester

Sumoi Teat I an Bennester		
Course Code	Description	Cr
BIO 323	Field Botany & Taxonomy	4
NRS 304 or BIO 366	Field Ornithology Vertebrate Biology	3
NRS324	Mammology	4
	NRS Supporting Elective	3-4
	*General Education Course	3
		17-18

Junior Year Spring Semester

Jumor real Spring Semester		
Course Code	Description	Cr
NRS 309	Wildlife Management Tech.	3
NRS 406 or NRS 407	Wetland Wildlife Mgt. (4); or Endangered Species Conservation (3)	3-4
	NRS Supporting Elective	3-4
	*General Education Course	3
	Free Elective	3
		16-17

Year 3 Milestones: Complete 90 credits with a cumulative gpa of 2.0 or higher. BIO323 (offered fall & summer only), NRS 309 (offered spring only). Meet with faculty advisor to plan senior year courses, discuss internship/research opportunities, and prepare Intent to Graduate Application for fall submission.

Senior Year Fall Semester

Semoi Teal Tun Semester		
Course Code	Description	Cr
NRS 304 or BIO 366	Field Ornithology Vertebrate Biology	3
	NRS Supporting Elective	3-4
	NRS Supporting Elective	3-4
	Free Elective	3
	NRS Concentration	3-4
		15-17

Senior Year Spring Semester

Course Code	Description	Cr
NRS 406 or NRS 407	Wetland Wildlife Mgt. (4); or Endangered Species Conservation (3)	3-4
NRS 417	Herpetology	4
	NRS Supporting Elective	3-4
NRS 402/403	Quantitative Wildlife Ecology/Field Invest.	4
	NRS Internship	
		15-17

Total Credits to Graduate = 120

Year 4 Milestones: Complete all remaining courses and requirements. NRS406 and 407 (offered spring only). Turn in Intent to Graduate packet fall semester. Minimum of 120 earned credits with a cumulative gpa of 2.0 or higher; and a minimum 2.0 gpa in major concentration courses.

NOTE: Visit http://web.uri.edu/nrs/undergraduate-programs/ for a list of NRS fall & spring courses & confirm with your advisor.