

THE UNIVERSITY OF RHODE ISLAND

Wildlife and Conservation Biology

EL_WCB_BS

120 Credits Total

web.uri.edu/nrs/

Student: _____
 Student ID: _____
 Advisor: _____

General Education Guidelines: 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:

General Education Credit Count						
At least 40 credits, no more than 12 credits with the same course code						
Course	Credit	Grade		Course	Credit	Grade
*NRS100	3					
*BIO101	3					
*BIO103	1					
*BIO102	3					
*BIO104	1					
*CHM103	3					
*MTH131	3					
*EEC105	3					
*NRS309	3					
				Total Gen Ed Credits		

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 computational strategies	*MTH131
B4. Information literacy	
RESPONSIBILITIES	
C1. Civic knowledge & responsibilities	
C2. Global responsibilities	
C3. Diversity & Inclusion	
INTEGRATE & APPLY	
D1. Ability to synthesize	*NRS309
GRAND CHALLENGE	
G. At least one course of your 40 credits is an approved "G" course (NRS330G recommended - A1, C2, G)	

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

*course fulfills general education and a major requirement

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: _____

THE UNIVERSITY OF RHODE ISLAND

Wildlife & Conservation Biology

EL_WCB_BS

120 Earned Credits Total

Student: _____

Student ID: _____

Advisor: _____

ABOUT THE BS in WILDLIFE & CONSERVATION BIOLOGY:

The WCB curriculum combines a grounding in natural sciences with the interdisciplinary training needed to manage wildlife populations and their habitats. We emphasize hands-on approaches and practical training through internships and independent study, preparing our students to effectively communicate and translate their knowledge to solve real-world problems. This major fulfills the educational requirements for employment as a ****Federal Wildlife Biologist**, certification as an ****Associate Wildlife Biologist** by The Wildlife Society, and provides an excellent foundation for graduate school. 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	

Free Electives			
Courses taken beyond the requirements of the major and general education to reach the 120 credits required for graduation.			
Course	Semester	Credits	Grade

Concentration Courses (at least 22 credits)			
Must include at least 12 credits from NRS			
<i>Required Concentration (13 - 14 credits)</i>			
Course	Semester	Credits	Grade
NRS 305		3	
*NRS 309		3	
NRS 406 (4) or NRS 407 (3)		3-4	
BIO 323		4	
<i>Additional Concentration Courses (9-11 credits)</i>			
<i>**See approved Concentration Course List</i>			
Course	Semester	Credits	Grade

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). Up to 12 credits of experiential learning courses may be taken. Experiential Learning courses may be used for a maximum of 10 credits for Concentration credit (letter grade only) or up to 12 credits for Supporting Electives (Letter Grade or S/U). Senior Colloquium (NRS 480, 2 cr.) is strongly recommended.			
Course	Semester	Credits	Grade

****Please speak to your faculty advisor about choosing classes to prepare for your future, including specific guidance on The Wildlife Society and Federal Wildlife Biologist GS-486 qualifications.**

*Courses approved for general education.

Minimum 2.0 GPA required in major for graduation.

Minimum 2.0 cumulative GPA required for graduation.

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College of the Environment and Life Sciences

Approved Concentration Courses (9 - 11 credits)¹
Course (credits):
NRS 304 Field Ornithology (3)
NRS 324 Mammalogy (4)
*NRS 330G The Biodiversity Crisis (3) <i>A1, C2, G</i>
NRS 401 Foundations in Restoration Ecology (4)
NRS 402 Quantitative Wildlife Ecology (3)
NRS 403 Quantitative 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)
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) ²
NRS 497 Cooperative Internship (6 or 12) ²
NRS 516 Remote Sensing in Natural Resources Mapping (3)
NRS 520 Quantitative Techniques in Natural Resource Research (3)
NRS 522 Advanced GIS Analysis of Environmental Data (3)
NRS 533 Landscape Pattern and Change (3)
BIO 366 Vertebrate Biology (3)
BIO 455 Marine Ecology (3)
BIO 467 Animal Behavior (3)
BIO 480 Community Ecology (3)
BIO 485 Salt Marsh Ecology (4)
*CSC 201 Introduction to Computer Programming (4) <i>B3</i>
*MTH 141 Introductory Calculus With Analytic Geometry (4) <i>A1, B3</i>

***Courses approved to satisfy major and general education requirements.**

¹ **Please speak to your faculty advisor about choosing classes to prepare for your future, including specific guidance on The Wildlife Society and Federal Wildlife Biologist GS-486 qualifications.**

² **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.**

Approved courses may change with availability or with approval of your advisor.

Botany	Resource Policy, Administration, or Land Use Planning
NRS 301 Forest Science (3)	
NRS 423 Wetland Ecology (4)	*NRS 234G Introduction to Water Resources (3) <i>A1, G</i>
NRS 425 Wetlands Field Investigations (1)	*NRS 300/*MAF 350 Global Issues in Sustainable Dev. (3) <i>A2, C2</i>
NRS 445 Invasive Species (4)	*NRS 330G The Biodiversity Crisis (3) <i>A1, C2, G</i>
NRS 485 Salt Marsh Ecology (4)	NRS 401 Foundations in Restoration Ecology (4)
BIO 311 Plant Structure & Development (4)	NRS 424 Wetlands & Land Use (4)
BIO 321 Plant Diversity (4)	*NRS 450G Soil Land Use and the Environment (3) <i>D1, G</i> ; and
BIO 346 Plant Physiology (3)	*NRS 452G Soil, Water, and Land Use Investigation (1) <i>D1, G</i>
BIO 352 General Genetics (4)	NRS 461 Watershed Hydrology and Management (4)
BIO 353 Genetics Laboratory (1)	CPL 434 Introduction to Environmental Law (3)
BIO 365 Biology of Algae (4)	*MAF 100 Human Use Marine Environment (3) <i>A2, C1</i>
BIO 418 Ecology of Marine Plants (4)	MAF 120 New England & The Sea (3)
	*MAF 220 Introduction to Marine & Coastal Law (3) <i>A2, C1</i>
	*MAF 312 Politics of the Ocean (3) <i>C2, D1</i>
NRS 304 Field Ornithology (3)	MAF 461 Coastal Zone Management (3)
NRS 324 Mammalogy (4)	MAF 471 Critical Island Studies (3)
NRS 350 Field Entomology & Taxonomy (4)	MAF 484 Environmental Analysis & Policy in Coastal Mgt. (3)
NRS 388 Biology of Bees & Pollination Ecology (3)	
NRS 417 Herpetology (4)	Communications
NRS 419 Field Experience in Herpetology (1)	NRS 442 Environmental Crisis Communication (3)
NRS 505 Biology & Management of Migratory Birds (2)	COM 202 Public Speaking (3)
NRS 534 Ecology of Fragmented Landscapes (2)	COM 208 Argumentation and Debate (3)
NRS 538 Physiological Ecology (3)	COM 210 Persuasion: The Rhetoric of Influence (3)
BIO 201 General Animal Physiology (3)	COM 221 Interpersonal Communication (3)
BIO 272 Introduction to Evolution (4)	COM 251 Small Group Communication (3)
BIO 286 Humans, Insects, and Disease (3)	COM 310 Topics in Communication (3)
BIO 302 Animal Development (4)	*JOR 110 Introduction to Mass Media (3) <i>A3, C1</i>
BIO 354 Invertebrate Zoology (4)	JOR 220 Media Writing (3)
BIO 355 Marine Invertebrates of Southern N.E. (3)	JOR/PRS 340 Public Relations (3)
BIO 360 Marine Biology (4)	*WRT 201 Argumentative & Persuasive Texts (3) <i>B1, B4</i>
BIO/ENT 385 Introduction to Entomology (3)	WRT 235 Digital Writing and Rhetoric (4)
	*WRT 332 Technical Writing (3) <i>B1, B2</i>
	*WRT 334 Science Writing (3) <i>B1, B2</i>
	WRT 533 Seminar in Graduate Writing in Life Sciences (3)
Experiential Learning Courses	Other Approved Supporting Electives
Up to 12 credits of Experiential Learning Courses may be taken. A maximum of 10 credits of experiential learning courses may be used for concentration credit (letter grade only) or up to 12 credits of experiential learning courses may be used as supporting electives (letter grade or S/U).	NRS 480 Colloquium (2) - strongly recommended
NRS 395 Research Apprenticeship (1-3) S/U only	*GEO 103 Understanding the Earth (4) <i>A1, B4</i>
NRS 397 Internship (1-6) S/U only	*MTH 103 Applied Precalculus (3) or *MTH 111 Precalculus (3) <i>A1, B3</i>
NRS 491/492: NRS Special Projects (1-3)	
NRS 495 Advanced Apprenticeship (3) S/U only	
NRS 497 Cooperative Internship (6 or 12)	
NRS 498 Teaching Practicum (1-3) S/U only	

*Courses approved to satisfy major and general education requirements.

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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

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

Sophomore Year *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
		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

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

Junior Year *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
		15-17

Year 3 Milestones: Complete 90 credits with a cumulative gpa of 2.0 or higher. BIO323 (offered fall & summer only), NRS 309, 406 & 407 (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

Course Code	Description	Cr
NRS 304 or BIO 366	Field Ornithology Vertebrate Biology	3
	NRS Concentration	3-4
	NRS Supporting Elective	3-4
	NRS Supporting Elective	3-4
	Free Elective	3
		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 & 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.

Effective: 2020 - 2021