WILDLIFE & CONSERVATION BIOLOGY, 120 CREDITS

Students starting: **FALL 2010**

4-7-2011

College of the Environment & Life Sciences (CELS)

Department of Natural Resources Science

STUDENT_____ **STUDENT ID** _____ **ADVISOR**_____

Department: Natural Resources Science, 401-874-2026, http://www.nrs.uri.edu
Credits: 120

The Major: 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.

Careers: Graduates of this major find employment with various state or federal agencies (such as the U.S. Fish and Wildlife Service, Park Service, or Forest Service, or Rhode Island Department of Environmental Management); with consulting firms; and with organizations like the Audubon Society and the National Wildlife Federation. Wildlife researchers work on habitat requirements of individual wildlife species and analyze the effects of such factors as pesticides, hunting, predation and land use on wildlife populations and their habitats. Wildlife managers operate refuges, regulate hunting and trapping seasons, manage public lands for the benefit of wildlife, and advise private landowners regarding wildlife management. Some wildlife biologists work for consulting firms that assess the environmental impact of proposed developments; others work in regulating land use in wetlands and coastal zones; still others teach in colleges, environmental education centers, and public schools.

Transfer out of UC: Must have completed at least 24 credits, minimum GPA of 2.00, and received permission from the UC Major Advisor.

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General Education (36 credits)
EC[D]: COM 100 ___ (3) or COM 110____ (4)
ECw: WRT 104, 105 or 106_____(3)
MQ: (3 cr. from Basic Sciences below)
N: (6 cr. from Basic Sciences below)
S: (6 cr. from NRS 100* and EEC 105 below)
L: _____(3) _____(3)
A: _____(3) _____(3)
FC: _____(3) _____(3)
(**Note: 15 cr. from L, A and FC**)

Intro. to URI and NRS (2 credits)
URI 101 _____(1) NRS 101_____(1)

Intro. Professional Courses (17 credits)
NRS 100_____(3) NRS 212_____(3)
NRS 200_____ (1) EEC 105_____(3)
NRS 223_____(3) GEO 103 _____(4)

Basic Sciences (25 credits; 9 applicable to General Education requirements)*
BIO 101___(4)
BIO 102___(4)
BIO 262___(3)
CHM 103, 105____(4)
CHM 124, 126 ____(4)
MTH 131____(3)
STA 308____(3) or STA 409____(3)

*Six credits apply to Division N and three credits apply to Division MQ above.

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Concentration (22-23 credits; **must include at least 12 credits from NRS**).

NRS 305_____(3) NRS 309_____(3)
NRS 406_____(3) or NRS 407_____(3)
BIO 323 _____(4)

Other Concentration Courses (9-10 credits from an approved list available from NRS Dept):

_____( ) _____( ) _____( )

_____( ) _____( ) _____( )

Note: If you are seeking certification by The Wildlife Society, you must complete the 9-10 credits of other Concentration courses in the following two categories:
Vertebrate Biology (6 credits):
NRS 304_____(3) and/or NRS 324_____(3)
BIO 366 _____(3) BIO 467 _____(3)
Must take either NRS 304 or NRS 324 if seeking certification.

Biometrics or other Quantitative Sciences:
NRS 402, 403___(4) or computer science (200-level or above), calculus (beyond MTH 131), systems analysis, mathematical modeling, or advanced algebra.

Supporting Electives (26-27 credits; **at least 6 credits must be NRS courses**). Courses may be selected from the Concentration categories or from an approved list (see back). Up to 12 credits of Letter Grade or S/U Experiential Learning Courses may be taken as Supporting Electives. Senior Colloquium (NRS 480, 2 cr.) is strongly recommended.

Note: if you are seeking certification by The Wildlife Society, Categories below must be completed (see back).
Botany (3): _____( )

Zoology (6):
_____( ) _____( )

Policy (6):
_____( ) _____ ( )

Communications (6):
_____( ) _____( )

Other Supporting Electives (5-6 credits):
_____( ) _____( )

_____( ) _____( )

Free Electives (6 credits)

_____( ) _____( ) _____( )

Note: Concentration and Supporting Electives must total at least 49 credits. Credits for graduation must total at least **120**.
*pending approval from CAC

Wildlife and Conservation Biology

Freshman, Fall (15)	**Freshman, Spring (15)**
NRS 100: Natural Resource Conservation	NRS 223: Conservation Biology
NRS 101: Freshman Inquiry into NRS	BIO 102: Principles of Biology II
URI 101: Traditions and Transformations: Freshman Seminar	WRT 104: Writing to Inform and Explain or WRT 105: Forms of College Writing or WRT 106: Intro to Research Writing or MTH 131: Applied Calculus
BIO 101: Principles of Biology I	GEN ED (A, L, or FC)
COM 100: Communication Fundamentals	CHM 103, 105: Introductory Chemistry/ Lab
MTH 111/131: Precalculus/ Applied Calculus	
Sophomore, Fall (15)	**Sophomore, Spring (15)**
NRS 200: Seminar in Natural Resources	CHM 124,126: Introduction to Organic Chemistry/ Lab
BIO 262: Introductory Ecology	GEN ED (A, L, or FC)
GEO 103: Understanding the Earth	EEC 105: Intro to Resource Economics
NRS 212: Introduction to Soil Science	STA 308: Introductory Statistics
GEN ED (A, L, or FC)	Free Elective
Junior, Fall (15)	**Junior, Spring (15)**
BIO 323: Field Botany and Taxonomy	NRS 305: Principles of Wildlife Ecology and Management
GEN ED (A, L, or FC)	NRS 309: Wildlife Management Techniques Lab
Free elective	NRS 324 or 402/403: Biology of Mammals or Wildlife Biometrics/Wildlife Biometrics Field Investigations
NRS Supporting Elective	NRS Supporting Electives
NRS Supporting Elective	GEN ED (A, L, or FC)
Senior, Fall (15)	**Senior, Spring (15)**
NRS 304 or BIO 366: Field Ornithology or Vertebrate Biology	NRS 406 or 407: Wetland Wildlife or Nongame and Endangered Species Management
NRS Supporting Elective	NRS 324 or 402/403: Biology of Mammals or Wildlife Biometrics/Wildlife Biometrics Field Investigations
NRS Supporting Elective	NRS Supporting Elective
NRS Supporting Elective	NRS Supporting Elective
Free Elective	NRS Internship

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WILDLIFE & CONSERVATION BIOLOGY

Fall 2010

APPROVED SUPPORTING ELECTIVE COURSES

A total of 26-27 credits may be taken from the following categories. **At least 6 credits must be NRS courses.** The requirements in various categories are based on certification guidelines established by The Wildlife Society. These approved courses may change with availability. Other courses may be taken with approval of your advisor.

Botany (3 credits)

NRS 301	Forest Science	3
NRS 423	Wetland Ecology	4
NRS 445	Invasive Species	3
BIO 311	Plant Structure & Development	4
BIO 321	Plant Diversity	3
BIO 346	Plant Physiology	3
BIO 352	Genetics	3
BIO 418	Ecology of Marine Plants	4
BIO 432	Mycology: Intro. to the Fungi	4
BIO 454	Genetics Laboratory	3
BIO 465	Biology of Algae	4
BIO 524	Methods in Plant Ecology	3

Zoology (6 credits)

AFS 352	General Genetics (= PLS 352)	3
AFS 355	Genetics Lab (= PLS 355)	2
NRS 532	Conservation Biology	2
NRS 534	Ecol. Fragmented Landscapes	2
NRS 538	Physiological Ecology	3
BIO 201	General Animal Physiology	3
BIO 203	Intro. Evolutionary Genetics	3
BIO 205	Animal Diversity	3
BIO 206	Pop. and Community Dynamics	3
BIO 286	Humans, Insects, and Disease	3
BIO 302	Animal Development	3
BIO 304	Comparative Vertebrate Anatomy	4
BIO 331	Parasitology	3
BIO 345	Marine Env. Physiology	3
BIO 350	Evolution	4
BIO 355	Marine Invert. of Southern N.E.	3
BIO 366	Vertebrate Biology	3
BIO 385	Introductory Entomology	3
BIO 386	Introductory Entomology Lab	1
BIO 437	Fundamentals of Molecular Biol.	3
BIO 441	Envir. Physiology of Animals	3
BIO 455	Marine Ecology	3
BIO 457	Marine Ecology Lab	1
BIO 458	Freshwater Ecology	4
BIO 467	Animal Behavior	3

Resource Policy, Administration, Environmental Law, Law Enforcement or Land Use Planning (3 credits)

CPL 434	Intro. to Environmental Law	3
MAF 100	Human Use Marine Environment	3
MAF 120	New England & The Sea	3
MAF 220	Intro. Marine & Coastal Law	3
MAF 312	Politics of the Ocean	3
MAF 456	Polar Resources & Policy	3
MAF 461	Coastal Zone Management	3
MAF 471	Island Ecosystem Management	3
MAF 484	Env. Anal. & Policy Coastal Mgt.	3
NRS 361	Watershed hydrology and Mgt.	4
NRS 401	Foundations in Restoration Ecology	3
NRS 411	Population & Environmental Change	3
NRS 414	Climate Change Science & Policy	3
NRS 424	Wetlands & Land Use	4
NRS 450	Soil Conservation & Land Use	3

Communications (6 credits- <u>in addition</u> <u>to</u> General Education requirements)

JOR 110	Introduction to Mass Media	3
JOR 220	Media Writing	3
JOR 230	Intro. Radio & TV News	3
JOR 340	Public Relations	3
COM 202	Public Speaking	3
COM 210	Persuasion: The Rhetoric of Influ.	3
COM 251	Small Group Communication	3
COM 302	Advanced Public Speaking	3
COM 310	Contemp. Oral Communication	3
WRT 201	Argument. & Persuasive Texts	3
WRT 235	Writing in Electronic Env.	3
WRT 333	Scientific & Technical Writing	3
WRT 533	Grad. Writing in Life Sciences	3

<u>Other Supporting Electives</u>:

Courses may be selected from any of the above categories, from Concentration electives, or from other 300- or 400-level NRS courses

Experiential Learning Courses

Up to 12 credits of Experiential Learning Courses may be taken. A maximum of 10 credits of Letter Grade courses may be taken for Concentration credit; up to 12 credits of Letter Grade courses (in *italics* below) or S/U courses may be used as Supporting Electives.

NRS 395	Research Apprenticeship	(1-3 credits/ea.)
NRS 397	Internship	(1-6 credits)
NRS 491/492	*Special Projects*	*(1-3 credits/ea.)*
NRS 495	Advanced Apprenticeship	(3 or 6 credits)
NRS 497	*Cooperative Internship*	*(6-12 credits)*
NRS 498	Teaching Practicum	(1-3 credits)
NRS 499	*Senior Thesis*	*(6 credits)*