



## NATURAL RESOURCES CONSERVATION

### Fisheries Ecology & Conservation

#### Fall Semester

#### Spring Semester

<b>First Year</b>	# Credits		# Credits
Intro Environment elective	4 <sup>a</sup>	ENGLWRIT 112 Coll. Writing (CW)	3
Intro Biology elective I (BS)	4 <sup>b</sup>	Intro Biology elective II (BS)	3/4/5 <sup>b</sup>
MATH 104 or 101/102 (R1)	3 or 2/2	GEOLOGY 103 Oceanography	3
Gen Ed (AT/AL/HS+DU/DG)	<u>4</u>	Gen Ed (AT/AL/HS+DU/DG)	<u>4</u>
<i>Total Credits</i>	14/15		13/15
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<b>Sophomore Year</b>			
NRC 260 Fish. Cons. & Mgt.	3	NRC 225 Forests & People	3
NRC 214 Fish Sampling & ID	2	NRC 261 Wildlife Cons.	3
Built Environment elective	4 <sup>c</sup>	NRC 211 Wildlife Sampling & ID	2
NRC 240/290B (R2)	4 <sup>d</sup>	Ecology elective	4 <sup>f</sup>
Chemistry 111 (PS)	<u>4</u>	NRC 309 Nat. Res. Policy	<u>3</u>
	17		17
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<b>Junior Year</b>			
Resource Economics elective (SB)	4 <sup>h</sup>	NRC 390E Evolution & Conserv.	3 <sup>j</sup>
NRC 570 Ecology of Fish (odd yrs)	4	NRC 571 Fish. Sci. Mgt. (even yrs)	4
BIOL 542 Ichthyology	4	NAT-SCI 387 CNS Jr. Writing	3
Integrated Experience elective (IE)	<u>4<sup>i</sup></u>	Quantitative elective	<u>3/4<sup>k</sup></u>
	16		14/15
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<b>Senior Year</b>			
NRC 585 Introduction to GIS	4	Physical Science elective	3 <sup>g</sup>
NRC 580 Conserv. Genetics	4 <sup>l</sup>		4
NRC 590AE Aquatic Ecology	4 <sup>l</sup>		4
Communication elective	<u>3<sup>m</sup></u>		<u>4</u>
	15		14/15

120 credits total and all general education requirements are required for all students to graduate.  
Please check your ARR in SPIRE often!





**To qualify as an Associate Fisheries Professional by the *American Fisheries Society* please refer to their website. Students generally need to include two additional physical science courses, such as NRC 528 Forest & Wetland Hydrology and NRC 577 Ecosystem Modelling & Simulation, to qualify. Check with your advisor for appropriate options. Also consider the [Five College Coastal and Marine Sciences Certificate](#).**

- <sup>a</sup> Intro. Environment elective – NRC 100 (SI, fall) preferred, NRC 185 (I, spring) and ENVIRSCI 101 (BS, fall) accepted
- <sup>b</sup> Intro. Bio. elective – BIOL 151 & 152 (153 lab optional), or STOCKSCH 108 (f) & BIOL 110 (s)
- <sup>c</sup> Built Environment elective – BCT 150 (f), NRC 290C, NRC 297R (f), GEOGRAPH 372, SUSTCOMM 125 or 574.
- <sup>d</sup> Statistics elective – NRC 240/290B (preferred), RESECON 212, STAT 111, STAT 240, STAT 501 (all offered spring and fall)
- <sup>f</sup> Ecology elective – NRC 252 preferred (s), NRC 270, 547, 566, 590IE, or BIOLOGY 287 (f, s) accepted
- <sup>g</sup> Physical Science elective – CHEM 112 (f,s), 250 (s), PHYSICS 100 (f,s), 118 (f), 131 (f,s), 139 (f), ASTRON 100 (f,s), 101 (f), 105 (s)
- <sup>h</sup> Resources Economics elective – RES-ECON 263 (f) or RES-ECON 262 (s)
- <sup>i</sup> Integrated Experience elective – NRC 490S, NRC 494EI, NRC 382, or ENVIRSCI 445
- <sup>j</sup> Evolution option (when NRC390E is not available) – BIOL 280 (C or better in BIO 151 & 152 req)
- <sup>k</sup> Quantitative elective – upper level statistics, math, or spatial data course, with permission [ex. STATS 501 (f,s), EDUC 555 (f), NRC 577 (Ecosystem Modelling, f), MATH 127 (Calculus), etc]
- <sup>k</sup> Students must take either: NRC 580 Conservation Genetics or NRC 590AE Aquatic Ecology (but both are recommended)
- <sup>l</sup> Communication elective options – NRC 492A (f), or COMM 118,121,122,125,140, 250, 260, COMP-LIT 290T, ENG 379, JOURNAL 201, or 292N

\*Note: many COMM 100-level courses are limited to first years and sophomores only!

