



NATURAL RESOURCES CONSERVATION
Forest Ecology & Conservation

Fall Semester

Spring Semester

First year	Credits		Credits
Intro to the Environment elective	4 ^a	MATH 121 Linear Meth.&Prob. (R2)	3
Intro Biology elective I (BS)	4 ^b	Intro Biology elective II (BS)	3/4/5 ^b
MATH 104 or 101/102 (R1)	3 or 2/2	ENGLWRIT 112 Coll. Writing (CW)	3
Gen Ed (AT/AL/HS+DU/DG)	<u>4^c</u>	STOCKSCH 105 Soils	<u>4</u>
<i>Total Credits</i>	14/15		13/15

Sophomore Year

NRC 260 Fish. Cons. & Mgt.	3	NRC 261 Wildlife Conservation	3
Built Environment elective	3/4 ^d	NRC 211 Animal Sampling & Ident.	2
NRC 212 Forest Tree & Shrub ID	2	NRC 225 Forests & People	3
Statistics elective (R2)	4 ^e	Ecology elective	3 ^g
Chemistry elective (PS)	<u>4^f</u>		<u>3</u>
	16		14

Junior Year

NRC 534 Forest Measurements	4	NRC 309 Nat. Res. Policy & Admin.	3
Physical science elective (PS)	3 ^h	NAT-SCI 387 CNS Jr. Yr. Writ.	3
Integrated Experience elective	4 ⁱ	Gen Ed (AT/AL/HS+DU/DG)	4 ^c
RES-ECON 263	4	<i>Recommended</i> optional ecology elective	3 ^k
NRC 521 Timber Harvesting	<u>3</u>		<u>3</u>
	17		16

Senior Year

NRC 526 Silviculture	4	NRC 540 Forest Resources Mgt.	4
Land/Mgt./Resource elective	3 ^l	NRC 572 Forest Insects & Diseases	3
Communications elective	3 ^m		3
NRC 585 Intro. to GIS	<u>4</u>		<u>3</u>
	14		13

Note: All students need at least 120 credits to graduate – please check your ARR in SPIRE

This curriculum meets the Society of American Foresters accreditation standards.





Supplemental Education and Certification Opportunities

- Invasive Plant Certification Program – UMass Extension:
<http://ag.umass.edu/landscape/education/invasive-plant-certification-program>. This is a 4-day course which teaches participants about the biology and control of invasive plants.
 - Pesticide Applicators Course – Spring (2-credits) – This is a course for students interested in invasive/exotic plant species control. The course prepares students to take the Massachusetts Pesticide Applicators exam. There are also non-credit workshops offered to help prepare for the exam (<http://www.umass.edu/pested/index.htm>).
- ^a Intro Environ elective – NRC 100 preferred (SI, fall), NRC 185 (I, spring), ENVIRSCI 101 (BS, fall)
- ^b Intro. Bio. elective – BIO 151 & 152 (2 credit BIO 153 lab optional), or STOCKSCH 108 (Intro to Botany, fall) & BIO 110 (spring)
- ^c In addition to the Gen Ed courses required for the major two additional classes are required: an AL/AT, and HS. You also need a DU United States Diversity and a DG Global Diversity designation. These may be combined, for example an HSDU would fulfill two requirements
- ^d Built Environment elective – BCT 150 (f), NRC 290C (f), NRC 297R (f), GEOGRAPH 372, SUSTCOMM 125 or 574.
- ^e Statistics elective – NRC 240/290B preferred (f), RESECON 212, STATISTC 111, 240, or 501
- ^f Chemistry elective - CHEM 111 (fall, spring)
- ^g Ecology elective – NRC 270 recommended, ENVIRSCI 214 (s), 547, 566, 590IE, or BIOLOGY 287 (f, s)
- ^h Physical science elective – CHEM 112, 250 (s), PHYSICS 100 (f,s), 118 (f), or ASTRON 100, 101, or 105 (s)
- ⁱ Integrated Experience elective – NRC 490S (f), NRC 382 (f), NRC 494EI (s), ENVIRSCI 445 (s)
- ^k *Recommended* Ecology elective - NRC 564 Wildlife Habitat Mgt; NRC 590 Invasion Ecology; BIO 426 New England Flora; BIO 540 Herpetology; BIO 544 Ornithology; BIO 548 Mammalogy
- ^l Land/Management/Resource elective – 300-level or higher course in land or management, or broadly oriented towards natural resources, e.g., SUSTCOMM 574 City Planning; NRC 586 Inventory of Local Lands; NRC 528 Forest & Wetland Hydrology; NRC 564 Wildlife Habitat Mgt; NRC 541 Urban forestry; courses in Sociology, Anthropology, Public Policy, GIS, Remote Sensing; at the direction of the advisor.
- ^m Communication elective – NRC 492A preferred, or COMM 118, 121, 122, 125, 140, 211, 250, 260, ENG 379, or JOURNAL 201 *NOTE*- many COMM courses are for freshman/sophomores only!