

## B.S. Applied Ecology & Environmental Science – Wetland Ecology & Restoration

*This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.*

### First Year

#### Fall

Course	Prerequisite	Credit
FW1050 – Natural Resource Professional ( <i>Essential Education: Seminar</i> )		2
FW2010 – Vegetation of North America		4
FW2051 – Field Techniques		2
BL1400 – Principles of Biology ( <i>Essential Education: Science</i> )		3
BL1410 – Principles of Biology Lab	BL1400 (C)	1
UN1015 – Composition ( <i>Essential Education</i> )		3
<b>Total</b>		<b>15</b>

#### Spring

Course	Prerequisite	Credit
CH1150 – University Chemistry I ( <i>Essential Education: STEM</i> )	Math Placement	3
CH1151 – University Chemistry I lab	CH1150 (C)	1
MA1135 – Calculus for Life Science ( <i>Essential Education: Math</i> )	Math Placement	4
<i>Essential Education: Foundations of the Human World</i>		3
<i>Essential Education: SHAPE</i>		3
<i>Essential Education: Activities</i>		1
<b>Total</b>		<b>15</b>

### Second Year

#### Fall

Course	Prerequisite	Credit
FW3020 – Forest Ecology	FW2010 (C), FW2051 (C)	3
FW3330 – Soil Science ( <i>Essential Education: STEM</i> )	CH1150/51	4
MA2720 – Statistical Methods	MA1030 or MA1032	4
PH1110 – College Physics I	MA1031 or MA1032 or placement	3
PH1111 – College Physics I Lab	PH1110 (C)	1
<i>Essential Education: Arts &amp; Culture</i>		3
<b>Total</b>		<b>18</b>

#### Spring

Course	Prerequisite	Credit
FW3200 – Biometrics & Data Analysis	FW2051 & MA2720	4
FW3540 – Intro to GIS	MA2720 (C)	4
Free Elective		3
<i>Essential Education: Communication Intensive</i>		3
<i>Essential Education: Activities</i>		1
<b>Total</b>		<b>15</b>

### Third Year

#### Fall

Course (taken as block at Ford Center)	Prerequisite	Credit
FW3012 – Survey of Silviculture	FW2010 & FW2051	2
FW3170 – Land Measurements/GPS	FW3540	1
FW3180 – Geomorphology, Landscapes, and Ecosystems		2
FW3190 – Multi-Resource Assessment	FW2051 & FW3020 & FW3200	3
FW3600 – Wildlife Habitat		3
FW3800 – Insect Ecology		2
FW3840 – Forest Health		3
<b>Total</b>		<b>16</b>

#### Spring

Course	Prerequisite	Credit
FW4421 – Climate Change & Forests		3
FW4710 – Environmental Biogeochemistry	CH1150	3
Free Elective		3
<i>Essential Education: Experience</i>		3
<i>Essential Education: Intercultural Competency</i>		3
<i>Essential Education: Activities</i>		1
<b>Total</b>		<b>16</b>

### Fourth Year

#### Fall

Course	Prerequisite	Credit
FW4220 – Wetlands	BL1400/1410	4
FW4800 – Communications for Nat Res		2
BL3490 – Principles of Ecology & Evolution	BL1400/1410	4
Applied Ecology Directed Elective	Varies	3
<b>Total</b>		<b>13</b>

#### Spring

Course	Prerequisite	Credit
FW4370 – Forestry and Landscape Hydrology		3
FW4380 – Landscape Ecology & Planning	MA2720	3
FW4114 – Restoration Ecology		3
Applied Ecology Directed Elective	Varies	3
<b>Total</b>		<b>12</b>

Directed Electives Choose at least 9 Cr		
Course #	Course Title & Credits	Semester / Prereqs
BL2160	Botany (4)	Spring
BL4034	Advanced Evolutionary Ecology (3)	Fall-odd yrs / BL3490
BL4120	Environmental Remediation (3)	Fall-odd yrs / BL1400 & BL1410
BL4400	Microbial Ecology (3)	Fall-even yrs / BL3490
BL4447	Stream Ecology (3)	Summer-even yrs / BL1400 & BL1410
BL4450	Limnology (3)	Spring-even yrs
BL4461	Ecosystem Ecology (3)	On Demand / BL3490 & (CH1122 or CH1160)
FW3410	Conservation Science (3)	Fall
FW4111	Indigenous Natural Resource Management (3)	Spring
FW4115	Tree Seedling Production (3)	Spring
FW4370	Forest & Landscape Hydrology (3)	Spring

**NOTE:****Prerequisite courses:**

- The prerequisite course must be successfully completed PRIOR to taking the subsequent course. Concurrent Prerequisites ~ (C) ~ may be taken at the same time, although it is not necessary if the prerequisite course is completed first. Required Corequisite courses that MUST be taken together in the same semester. See your academic advisor for questions.

**Essential Education Requirements:**

- 24 total credits. Required courses are UN1015-Composition (3 credits), a Foundations in the Human World course (3 credits), a Communication Intensive course (3 credits), an Arts & Culture course (3 credits), an Intercultural Competency (3000+) course (3 credits), a SHAPE course (3 credits), an Essential Education Experience (3000+) course (3 credits), and 3 credits of Activities for Wellbeing and Success. Activities for Well-being and Success: Mainly physical education courses with some additions. Three credits are required for graduation. These credits will be included as earned hours and may be used to determine full-time enrollment status.