

# ECOLOGY AND CONSERVATION BIOLOGY - BS, FOREST RESOURCES TRACK

## Program Requirements

### First Year

		Semester Credit Hours
<b>Fall</b>		
BIOL 111	Introductory Biology I	4
ECCB 101	Introduction to Ecology and Conservation Biology	1
MATH 140	Mathematics for Business and Social Sciences	3
ECCB 205	Fundamentals of Ecology	3
General elective <sup>1</sup>		3
<b>Semester Credit Hours</b>		<b>14</b>

### Spring

AGEC 105	Introduction to Agricultural Economics	3
BIOL 112	Introductory Biology II	4
MATH 142	Business Calculus	3
American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> ) <sup>2</sup>		3
Language, philosophy and culture ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a> ) <sup>2</sup>		3
<b>Semester Credit Hours</b>		<b>16</b>

### Second Year

		Semester Credit Hours
<b>Fall</b>		
CHEM 119	Fundamentals of Chemistry I	4
ECCB 203	Forest Trees of North America	3
ECCB 302	Diversity and Evolution of Vertebrates	3
American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> ) <sup>2</sup>		3
Creative arts ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a> ) <sup>2</sup>		3
<b>Semester Credit Hours</b>		<b>16</b>

### Spring

CHEM 222	Elements of Organic and Biological Chemistry	3
ECCB 215	Fundamentals of Ecology--Laboratory	1
ECCB 304	Conservation Biology	3
ECCB 310	Forest Tree Physiology and Breeding	3
STAT 302	Statistical Methods	3

Government/Political science ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a> ) <sup>2</sup>	3
---	---

**Semester Credit Hours 16**

### Third Year

#### Fall

ECCB 309	Forest Ecology	3
ECCB 351	Geographic Information Systems for Resource Management	3
ECCB 403	Population and Community Ecology	3
SCSC 301	Soil Science	4
Communication ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a> ) <sup>2</sup>		3

**Semester Credit Hours 16**

#### Spring

AGEC 350	Environmental and Natural Resource Economics	3
ECCB 301	Diversity and Evolution of Plants	3
ECCB 303	Fire Ecology and Biogeochemistry	3
ECCB 324	Forest Measurements	2
Government/Political science ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a> ) <sup>2</sup>		3

**Semester Credit Hours 14**

### Fourth Year

#### Fall

ECCB 319	Principles of Forestry	3
ECCB 325	Field Studies in Forest Ecosystems	3
ECCB 400	Molecular Ecology	3
ECCB 444	Remote Sensing of the Environment	3
RWFM 436	Natural Resources Policy	3

**Semester Credit Hours 15**

#### Spring

ECCB 307	Forest Protection	3
ECCB 405	Forest Resource Assessment and Management	3
ECCB 485	Directed Studies	1
Communication ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a> ) <sup>2</sup>		3
General elective <sup>1</sup>		3

**Semester Credit Hours 13**

**Total Semester Credit Hours 120**

<sup>1</sup> Select from any 100-499 course not used elsewhere.

<sup>2</sup> Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and 3 hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) courses. A course satisfying a Core category, a college/department

requirement, or a general elective can be used to satisfy this requirement.

Must make a grade of C or better in BIOL 111, BIOL 112, MATH 140, and all ECCB major core coursework or any course substituted for an ECCB major core coursework requirement (ECCB 101, ECCB 205, ECCB 301, ECCB 302, ECCB 303, ECCB 304, ECCB 400, ECCB 403, and ECCB 485).