













## 2013 - 2014 Major Map

### Applied Biological Sciences (Applied Ecology and Preveterinary Medicine), **BS**

School/College: College of Integrative Sciences and Arts  
TSABSRBS

ASU is no longer accepting new students to this program. Please explore Degree Search for other similar program options.

Term 1 0 - 14 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 181: General Biology I (SQ)	4	C	<ul style="list-style-type: none"> <li>• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses</li> <li>• ASU Math Placement Exam score determines placement in Mathematics course</li> <li>• ASU 101 or College specific equivalent First Year Seminar required of all freshman students</li> </ul>
 MAT 210: Brief Calculus (MA) OR MAT 251: Calculus for Life Sciences (MA)	3	C	
ASU 101: The ASU Experience	1		
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)	3		
Term hours subtotal:	14		
Term 2 14 - 28 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 182: General Biology II (SG)	4	C	
 CHM 113: General Chemistry I (SQ)	4	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	14		
Term 3 28 - 46 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ABS 274: Introduction to Wildlife Management	4	C	
 CHM 116: General Chemistry II (SQ)	4	C	
Humanities, Arts and Design (HU)	3		
Literacy and Critical Inquiry (L)	3		
Elective	4		
Complete Mathematics (MA) requirement.			
Term hours subtotal:	18		
Term 4 46 - 61 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ABS 270: Sustainable Biological Systems	3	C	
ABS 207: Applied Plant Taxonomy	3	C	
CHM 231: Elementary Organic Chemistry (SQ)	3	C	

Wildlife & Restoration Ecology Elective	3	C
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3	

Term hours subtotal: 15

Term 5 61 - 76 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ABS 302: Ethical and Policy Issues in Biology	2	C	
★ ABS 370: Ecology	3	C	
★ ABS 381: Natural Resources Policy	3	C	
BIO 340: General Genetics	4	C	
STP 420: Introductory Applied Statistics (CS)	3	C	
Term hours subtotal:	15		

Term 6 76 - 92 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ABS 373: Vegetation Measurements	3	C	
Upper Division Wildlife or Restoration Ecology Course Group	3	C	
Wildlife or Restoration Ecology Course Group	4	C	
Wildlife & Restoration Ecology Elective	3	C	
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		
Term hours subtotal:	16		

Term 7 92 - 107 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ABS 311: Molecular and Cellular Biology OR ABS 498: Applied Plant Physiology OR BIO 360: Animal Physiology	3	C	
★ ABS 440: Ecological Restoration Techniques	3	C	
★ ABS 485: GIS in Natural Resources	3	C	
Upper Division Wildlife or Restoration Ecology Course Group	3	C	
Wildlife & Restoration Ecology Elective	3	C	
Term hours subtotal:	15		

Term 8 107 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ABS 480: Ecosystem Management and Planning (L)	3	C	
★ Upper Division Wildlife or Restoration Ecology Course Group	4	C	
Complete 2 courses:			
Upper Division Wildlife & Restoration Ecology Elective	6	C	
Term hours subtotal:	13		

#### Hide Course List(s)/Track Group(s)

Wildlife & Restoration Ecology Elective	Wildlife Course Group	Restoration Ecology Course Group
ABS 225: Soils (SQ)	ABS 355: Anatomy and Physiology of Vertebrates	ABS 225: Soils (SQ)
ABS 226: Soils Laboratory (SQ)	ABS 376: Wildlife Ecology	ABS 226: Soils Laboratory (SQ)
ABS 355: Anatomy and Physiology of Vertebrates	ABS 475: Habitat Management for Small Wildlife	ABS 433: Riparian and Wetland Ecology
ABS 368: Plant Propagation	ABS 476: Big Game Habitat Management	ABS 441: Ecological Restoration Practicum
ABS 376: Wildlife Ecology		ABS 482: Ecology and Planning for Restoration

ABS 378: Wildlife Nutrition	ABS 483: Restoration Planning Practicum
ABS 380: Restoration and Wildlife Plants	
ABS 425: Soil Classification and Management	
ABS 430: Watershed Management	
ABS 433: Riparian and Wetland Ecology	
ABS 434: Soil Ecology	
ABS 435: Applied Systems Ecology	
ABS 441: Ecological Restoration Practicum	
ABS 470: Life History of Mammals	
ABS 471: Ornithology	
ABS 475: Habitat Management for Small Wildlife	
ABS 476: Big Game Habitat Management	
ABS 481: Riparian and Wetland Restoration	
ABS 482: Ecology and Planning for Restoration	
ABS 483: Restoration Planning Practicum	
ABS 486: Introduction to Remote Sensing	
BIO 331: Animal Behavior	
BIO 385: Comparative Invertebrate Zoology	
BIO 410: Techniques in Conservation Biology and Ecology (L)	
BIO 426: Limnology (L)	
BIO 473: Ichthyology	
BIO 474: Herpetology	

**Total Hours:** 120

**Upper Division Hours:** 45 minimum

**Major GPA:** 2.00 minimum

**Cumulative GPA:** 2.00 minimum

**Total hrs at ASU:** 30 minimum

**Hrs Resident Credit for**

**Academic Recognition:** 56 minimum

**Total Community College Hrs:** 64 maximum

### General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2013 - 2014 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.