

## 2012 - 2013 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
! CTI 101: Success in Technology & Innovation	1		<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>
! BIO 181: General Biology I (SQ)	4	C	
! MAT 210: Brief Calculus (MA) OR MAT 251: Calculus for Life Sciences (MA)	3	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: English for Foreign Students	3	C	
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)	3		
Term hours subtotal:	14		
Term 2 14 - 29 Credit Hours Critical course signified by !	Hours	Minimum Grade	Notes
! ASC 191: First-Year Seminar	1		
! 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: English for Foreign Students	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:	15		
Term 3 29 - 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	3		
Complete Mathematics (MA) requirement.			
Term hours subtotal:	17		
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
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3	
Wildlife & Restoration Ecology Elective	3	C
Term hours subtotal:	15	

Term 5 61 - 76 Credit Hours	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	
STP 420: Introductory Applied Statistics (CS)	3	C	
BIO 340: General Genetics	4	C	
Term hours subtotal:	15		

Term 6 76 - 92 Credit Hours	Hours	Minimum Grade	Notes
ABS 402: Vegetation and Wildlife Measurement	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	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	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:	6	C	
Upper Division Wildlife & Restoration Ecology Elective			
Term hours subtotal:	13		

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

Restoration Ecology Course Group	Wildlife Course Group	Wildlife & Restoration Ecology Elective
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 433: Riparian and Wetland Ecology	ABS 475: Habitat Management for Small Wildlife	ABS 355: Anatomy and Physiology of Vertebrates
ABS 441: Ecological Restoration Practicum	ABS 476: Big Game Habitat Management	ABS 368: Plant Propagation

ABS 482: Ecology and Planning for  
Restoration

ABS 483: Restoration Planning Practicum

ABS 375: Conservation Biology

ABS 376: Wildlife Ecology

ABS 378: Wildlife Nutrition

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 Wildlife  
Conservation Biology (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:** 2.50 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 2012 - 2013 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.