

Applied Biological Sciences (Natural Resource Ecology), BS

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2017 - 2018 Major Map Applied Biological Sciences (Natural Resource Ecology) (BS)

Degree: BS
College/School: College of Integrative Sciences and Arts
Location: Polytechnic campus

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Term 1	0 - 14 Credit Hours	Critical course signified by	Hours	Minimum Grade	Notes
	ASU 101-UC: The ASU Experience		1		<ul style="list-style-type: none"> An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses ASU Mathematics Placement Test score determines placement in mathematics course ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students Select your career interest area and play me3@ASU.
	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: First-Year Composition		3	C	
	Social-Behavioral Sciences (SB)		3		
	Term hours subtotal:			14	

Term 2	15 - 28 Credit Hours	Critical course signified by	Hours	Minimum Grade	Notes
	BIO 182: General Biology II (SG)		4	C	<ul style="list-style-type: none"> Join a student club or professional organization.
	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)		3		
	Complete ENG 101 OR ENG 105 OR ENG 107 course(s).				
	Term hours subtotal:			14	

Term 3	29 - 45 Credit Hours	Critical course signified by	Hours	Minimum Grade	Notes
	ABS 274: Introduction to Wildlife Management OR ABS 225: Soils (SQ) AND ABS 226: Soils Laboratory (SQ)		4	C	<ul style="list-style-type: none"> Students in the Wildlife Track should take ABS 274. Students in the Rangelands/Watershed Track should take ABS 225/226. Secure a part-time job or volunteer experience.
	CHM 116: General Chemistry II (SQ)		4	C	
	Historical Awareness (H)		3		
	Social-Behavioral Sciences (SB)		3		
	Elective		3		
	Term hours subtotal:			17	

Term 4	46 - 61 Credit Hours	Critical course signified by	Hours	Minimum Grade	Notes	
	ABS 207: Applied Plant Taxonomy		3	C	<ul style="list-style-type: none"> Students considering Graduate school or health professions should complete the Organic Chemistry Sequence of both CHM 233/237 and CHM 234/238 sequence, using CHM 234/238 in place of electives. All other students will complete CHM 231/235. 	
	CHM 231: Elementary Organic Chemistry (SQ) AND CHM 235: Elementary Organic Chemistry Laboratory (SQ) OR CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I		4	C		
	Cultural Diversity in the U.S. (C)		3			
	Global Awareness (G)		3			
	Literacy and Critical Inquiry (L)		3			
	Term hours subtotal:			16		

Term 5	62 - 77 Credit Hours	Necessary course signified by	Hours	Minimum Grade	Notes
	ABS 350: Applied Statistics (CS)		3	C	<ul style="list-style-type: none"> Students considering Graduate school or health professions should complete the PHY 111/113 and PHY 112/114 sequence, using PHY 112/114 in place of electives. All other students will complete PHY 101. Network in your career interest area.
	ABS 370: Ecology		3	C	
	Upper Division Natural Resource Ecology Track		3	C	
	PHY 101: Introduction to Physics (SQ) OR PHY 111: General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)		4	C	
	Humanities, Arts and Design (HU)		3		
	Term hours subtotal:			16	

Term 6	78 - 92 Credit Hours	Necessary course signified by	Hours	Minimum Grade	Notes
	ABS 355: Ecology and Adaptations of Vertebrates OR ABS 430: Watershed Management		3	C	<ul style="list-style-type: none"> Students in the Wildlife Track should take ABS 355. Students in the Rangelands/Watershed Track should take ABS 430. Research employment opportunities.
	BIO 360: Animal Physiology OR ABS 314: Applied Plant Physiology OR ABS 311: Molecular and Cellular Biology		3	C	
	Upper Division Natural Resource Ecology Track		3	C	
	Natural Resource Ecology Track		3	C	
	Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)		3		
	Term hours subtotal:			15	

Term 7	93 - 106 Credit Hours	Necessary course signified by	Hours	Minimum Grade	Notes
	ABS 490: Applied Biological Sciences Seminar		1	C	<ul style="list-style-type: none"> Gather professional references. Apply for full-time career opportunities.
	BIO 340: General Genetics		4	C	
	Upper Division Natural Resource Ecology Track		3	C	
	Complete 2 courses: Upper Division Elective		6		
	Term hours subtotal:			14	

Term 8	107 - 120 Credit Hours	Necessary course signified by	Hours	Minimum Grade	Notes
	ABS 479: Ecosystem Management and Planning (L)		3	C	
	Upper Division Elective OR ABS 484: Internship		3		
	Complete 2 courses: Upper Division Elective		4		
	Complete 2 courses: Elective		4		
	Term hours subtotal:			14	

Students select one of three Natural Resource Ecology Tracks and complete 12 hours from within that track.

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

General Track (12 Credits)
ABS 270: Sustainable Biological Systems
ABS 312: Structure and Function
ABS 376: Wildlife Ecology
ABS 378: Animal Nutrition
ABS 380: Restoration and Wildlife Plants
ABS 384: Natural Resources Measurements
ABS 394: Comparative Immunology
ABS 394: Unseen Life on Earth
ABS 434: Soil Ecology
ABS 440: Ecological Restoration Techniques
ABS 441: Ecological Restoration Practicum AND ABS 470: Life History of Mammals
ABS 472: Applied Herpetology
ABS 473: Applied Ornithology
ABS 474: Riparian Ecosystem Management
ABS 485: GIS in Natural Resources
ABS 486: Introduction to Remote Sensing
ABS 489: Undergraduate Research
ABS 494: Emerging Infections & Epidemics

Wildlife Track (12 Credits)
ABS 270: Sustainable Biological Systems
ABS 376: Wildlife Ecology
ABS 378: Animal Nutrition
ABS 384: Natural Resources Measurements
ABS 470: Life History of Mammals
ABS 472: Applied Herpetology
ABS 473: Applied Ornithology
ABS 475: Habitat Management for Small Wildlife
ABS 476: Big Game Habitat Management
ABS 485: GIS in Natural Resources
ABS 486: Introduction to Remote Sensing
ABS 494: Emerging Infections & Epidemics

Rangeland and Watershed Track (12 Credits)
ABS 270: Sustainable Biological Systems
ABS 368: Plant Propagation
ABS 376: Wildlife Ecology
ABS 380: Restoration and Wildlife Plants
ABS 384: Natural Resources Measurements
ABS 425: Soil Classification and Management
ABS 434: Soil Ecology
ABS 440: Ecological Restoration Techniques
ABS 441: Ecological Restoration Practicum
ABS 474: Riparian Ecosystem Management
ABS 476: Big Game Habitat Management
ABS 481: Riparian and Wetland Restoration
ABS 485: GIS in Natural Resources
ABS 486: Introduction to Remote Sensing
ABS 494: Rangeland Ecosystem Management

Notes:

- Students must complete a minimum of 12 credit hours of science courses offered by the College of Integrative Sciences and Arts. Select from ABS, CHM, BIO, PHY, and MIC prefixes.

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 on the major map are current for the 2017 - 2018 academic year.

All ASU graduate and undergraduate academic programs are fully accredited by the North Central Association Higher Learning Commission. Many programs also have additional accreditation through specialized accrediting agencies.

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