












2022 - 2023 Major Map

Applied Biological Sciences (Preveterinary Medicine), BS




School/College: College of Integrative Sciences and Arts
LSABSPMBS

In order to complete the requirements of this program, some laboratory courses will be completed in-person at the Tempe Campus.



These laboratory courses will be offered during summer. This may impact your financial aid. Financial aid is available to those who apply and qualify, and students may receive funds to help cover costs for each semester of enrollment. The amount of financial aid that a student is eligible for varies depending on prior education experience and other individual factors. [Learn](#) more about summer financial aid and additional ways to cover summer costs.

Term 1 - A 0 - 8 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 181: General Biology I (SQ)	4	C	<ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students. Select your Career Interest Communities and play me3@ASU.
ASU 101-CLS: The ASU Experience	1		
ENG 101 or ENG 102: First-Year Composition OR			
ENG 105: Advanced First-Year Composition OR	3	C	
ENG 107 or ENG 108: First-Year Composition			
Term hours subtotal:	8		
Term 1 - B 8 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 182: General Biology II (SQ)	4	C	<ul style="list-style-type: none"> View ASU Online first-year student registration information here. Select your Career Interest Communities and play me3@ASU.
MAT 251: Calculus for Life Sciences (MA)	3	C	
Term hours subtotal:	7		
Term 2 - A 15 - 22 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 CHM 113: General Chemistry I (SQ)	4	C	<ul style="list-style-type: none"> Join a student club or professional organization.
ENG 101 or ENG 102: First-Year Composition OR			
ENG 105: Advanced First-Year Composition OR	3	C	
ENG 107 or ENG 108: First-Year Composition			
Term hours subtotal:	7		
Term 2 - B 22 - 30 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 CHM 116: General Chemistry II (SQ)	4	C	
ABS 100: Discovering the Professions	1	C	
Humanities, Arts and Design (HU) AND Global Awareness (G)	3		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	8		
Term 3 - A 30 - 37 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ABS 271: Veterinary Medicine Today	3	C	
PHY 111: General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)	4	C	

Term hours subtotal: 7

Term 3 - B 37 - 44 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 PHY 112: General Physics (SQ) AND PHY 114: General Physics Laboratory (SQ)	4	C	• Secure a part-time job or volunteer experience.
OGL 200: Introduction to Organizational Leadership (SB) OR OGL 220: Behavioral Dynamics in Organizations (SB)	3	C	
 Complete Mathematics (MA) requirement.			



Term hours subtotal: 7

Term 4 - A 44 - 51.5 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MIC 205: Microbiology (SG) AND MIC 206: Microbiology Laboratory (SG)	4	C	
ABS 200: Building Your Professional Self	.5	C	
Elective	3		

Term hours subtotal: 7.5

Term 4 - B 51.5 - 60.5 Credit Hours	Hours	Minimum Grade	Notes
Literacy and Critical Inquiry (L)	3		• COM 225 Public Speaking (L) is recommended for students wishing to pursue veterinary school.
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)	3		
Elective	3		

Term hours subtotal: 9

Term 5 - A 60.5 - 67 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 ABS 311: Molecular and Cellular Biology OR BIO 360: Animal Physiology	3	C	• Build your professional connections -- join the ASU Mentor Network . • Connect with faculty to seek opportunities for research .
ABS 300: Career Competencies and Skills	.5	C	
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		

Term hours subtotal: 6.5

Term 5 - B 67 - 74 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 BIO 340: General Genetics	4	C	
OGL 340: Special Topics	3	C	

Term hours subtotal: 7

Term 6 - A 74 - 80 Credit Hours	Hours	Minimum Grade	Notes
ABS 355: Ecology and Adaptations of Vertebrates	3	C	
CHM 233: General Organic Chemistry I	3	C	

Term hours subtotal: 6

Term 6 - B 80 - 86 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
CHM 234: General Organic Chemistry II	3	C	• Use Handshake to research employment opportunities.
Upper Division Pre-Veterinary Elective	3	C	
 Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			

Term hours subtotal: 6

Summer 6 86 - 88 Credit Hours	Hours	Minimum Grade	Notes
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CHM 237: General Organic Chemistry Laboratory I	1	C
CHM 238: General Organic Chemistry Laboratory II	1	C
Term hours subtotal:	2	

- ASU Online students will complete all experiments for the Organic Chemistry labs at the ASU Tempe campus during a one-week session in summer. Lab reports will be completed in subsequent weeks during the same summer term.

Term 7 - A 88 - 96 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ BCH 361: Advanced Principles of Biochemistry	3	C	<ul style="list-style-type: none"> • Gather professional references. • Apply for full-time career opportunities
ABS 490: Applied Biological Sciences Seminar	1	C	
Upper Division Pre-Veterinary Elective	3	C	
Upper Division Elective	1		
Term hours subtotal:	8		

Term 7 - B 96 - 105 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ABS 350: Applied Statistics (CS)	3	C	<ul style="list-style-type: none"> • Use Handshake to research employment opportunities.
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		
Upper Division Literacy and Critical Inquiry (L)	3		
Term hours subtotal:	9		

Term 8 - A 105 - 111 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ABS 378: Animal Nutrition	3	C	
ABS 484: Internship OR Upper Division Elective	3		
Term hours subtotal:	6		

Term 8 - B 111 - 120 Credit Hours	Hours	Minimum Grade	Notes
Complete 2 courses:			
Upper Division Pre-Veterinary Elective	6	C	
Elective	3		
Term hours subtotal:	9		

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

Pre-Veterinary Electives (12 Hours Required)

ABS 302: Ethical and Policy Issues in Biology

ABS 312: Structure and Function

ABS 318: Unseen Life on Earth

ABS 372: Captive Animal Behavior Management

ABS 376: Wildlife Ecology

ABS 394: Animal Anatomy

ABS 394: Introduction to Equine Science

ABS 394: Small Animal Veterinary Topics

ABS 417: Comparative Immunology

ABS 470: Life History of Mammals

ABS 472: Applied Herpetology

ABS 473: Applied Ornithology

ABS 484: Internship

ABS 494: Anatomy Practicum

ABS 494: Emerging Infections & Epidemics

Notes:

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: <https://cisa.asu.edu/DSP>
- Mathematics Placement Assessment score determines placement in first mathematics course.

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 next to courses on the major map were valid for the 2022 - 2023 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.