












## 2024 - 2025 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 (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> <li>ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students.</li> <li>Select your <a href="#">Career Interest Communities</a> and play <a href="#">me3@ASU</a>.</li> </ul>
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 (SCIT OR SG)	4	C	<ul style="list-style-type: none"> <li>View ASU Online first-year student registration information <a href="#">here</a>.</li> <li>Select your <a href="#">Career Interest Communities</a> and play <a href="#">me3@ASU</a>.</li> </ul>
MAT 251: Calculus for Life Sciences (MATH OR 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 (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> <li>Join a <a href="#">student club</a> or professional organization.</li> </ul>
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 (SCIT OR SQ)	4	C	
ABS 100: Discovering the Professions	1	C	
Humanities, Arts and Design (HUAD)	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 (SCIT OR SQ) AND PHY 113: General Physics Laboratory (SCIT OR SQ)	4	C	



Term hours subtotal: 7

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

Term hours subtotal: 7

Term 4 - A 44 - 51.5 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 MIC 205: Microbiology (SCIT OR SG) AND MIC 206: Microbiology Laboratory (SCIT OR SG)	4	C	
ABS 200: Building Your Professional Self	.5	C	
Sustainability (SUST)	3		
Term hours subtotal:	7.5		

Term 4 - B 51.5 - 60.5 Credit Hours	Hours	Minimum Grade	Notes
Global Communities, Societies and Individuals (GCSI)	3		• COM 225 Public Speaking is recommended for students wishing to pursue veterinary school.
Governance and Civic Engagement (CIVI)	3		
Social and Behavioral Sciences (SOBE)	3		
Term hours subtotal:	9		

Term 5 - A 60.5 - 67 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 ABS 311: Molecular and Cellular Biology OR BIO 360: Animal Physiology	3	C	• Connect with faculty to seek opportunities for <b>research</b> .
ABS 300: Career Competencies and Skills	.5	C	
Humanities, Arts and Design (HUAD)	3		
Term hours subtotal:	6.5		

Term 5 - B 67 - 74 Credit Hours <b>Necessary course signified by</b> 	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 <b>Necessary course signified by</b> 	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	Hours	Minimum Grade	Notes
CHM 234: General Organic Chemistry II	3	C	• Use <b>Handshake</b> to research employment opportunities.
Upper Division Pre-Veterinary Elective	3	C	
Term hours subtotal:	6		

Summer 6 86 - 88 Credit Hours	Hours	Minimum Grade	Notes
CHM 237: General Organic Chemistry Laboratory I	1	C	• ASU Online students will complete all experiments for the Organic Chemistry labs
CHM 238: General Organic Chemistry Laboratory II	1	C	

Term hours subtotal: 2

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 <b>Necessary course signified by</b> ★	Hours	Minimum Grade	Notes
★ BCH 361: Advanced Principles of Biochemistry	3	C	<ul style="list-style-type: none"> <li>• Gather <b>professional references</b>.</li> <li>• Apply for full-time <b>career opportunities</b>.</li> </ul>
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	Hours	Minimum Grade	Notes
ABS 350: Applied Statistics (QTRS OR CS) OR STP 420: Introductory Applied Statistics (QTRS OR CS)	3	C	<ul style="list-style-type: none"> <li>• Use <b>Handshake</b> to research employment opportunities.</li> </ul>
American Institutions (AMIT)	3		
Upper Division Elective	3		
Term hours subtotal:	9		

Term 8 - A 105 - 111 Credit Hours <b>Necessary course signified by</b> ★	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	
Upper Division Elective	3		
Term hours subtotal:	9		

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

##### Pre-Veterinary Electives

ABS 302: Ethical and Policy Issues in Biology

ABS 312: Structure and Function

ABS 318: Unseen Life on Earth

ABS 371: Small Animal Veterinary Topics

ABS 372: Captive Animal Behavior Management

ABS 375: Equine Science

ABS 379: Animal Anatomy

ABS 417: Comparative Immunology

ABS 470: Life History of Mammals

ABS 472: Applied Herpetology

ABS 473: Applied Ornithology

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ABS 484: Internship

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ABS 494: Emerging Infections & Epidemics

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ABS 494: Scientific Literature in  
Veterinary/Medical Fields

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- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- **University Undergraduate Graduation Requirements**

**Notes:**

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.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 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.