### 2018 - 2019 Major Map

**Applied Biological Sciences (Preveterinary Medicine), BS**

**School/College:** College of Integrative Sciences and Arts  
**Location:** Polytechnic campus  
**LSABSPMBS**

#### Term 1 - 0 - 14 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 181</td>
<td>General Biology I (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>MAT 210</td>
<td>Brief Calculus (MA) OR MAT 251: Calculus for Life Sciences (MA)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ASU 101-UC</td>
<td>The ASU Experience</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>First-Year Composition OR ENG 102</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Social-Behavioral Sciences (SB)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

- An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses  
- ASU Mathematics Placement Assessment 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.

#### Term 2 - 14 - 31 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 182</td>
<td>General Biology II (SG)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>CHM 113</td>
<td>General Chemistry I (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>First-Year Composition OR ENG 102</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Historical Awareness (H)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities, Arts and Design (HU)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 17

- Join a student club or professional organization.

#### Term 3 - 31 - 48 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 271</td>
<td>Veterinary Medicine Today</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>CHM 116</td>
<td>General Chemistry II (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>PHY 111</td>
<td>General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity in the U.S. (C)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global Awareness (G)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 17

- Secure a part-time job or volunteer experience.

#### Term 4 - 48 - 62 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIC 205</td>
<td>Microbiology (SG) AND MIC 206: Microbiology Laboratory (SG)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>PHY 112</td>
<td>General Physics (SQ) AND PHY 114: General Physics Laboratory (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Literacy and Critical Inquiry (L)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 17
### Term 5 62 - 78 Credit Hours

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 370: Ecology</td>
<td>3</td>
<td>C</td>
<td>• Network in your career interest area.</td>
</tr>
<tr>
<td>BIO 360: Animal Physiology OR ABS 314: Applied Plant Physiology OR ABS 311: Molecular and Cellular Biology</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Pre Vet Elective</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Humanities, Arts and Design (HU)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

### Term 6 78 - 92 Credit Hours

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 355: Ecology and Adaptations of Vertebrates</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>BIO 340: General Genetics</td>
<td>4</td>
<td>C</td>
<td>• Use Handshake to research employment opportunities.</td>
</tr>
<tr>
<td>CHM 234: General Organic Chemistry II AND CHM 238: General Organic Chemistry Laboratory II</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Pre Vet Elective</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

### Term 7 92 - 106 Credit Hours

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 350: Applied Statistics (CS)</td>
<td>3</td>
<td>C</td>
<td>• Gather professional references.</td>
</tr>
<tr>
<td>ABS 490: Applied Biological Sciences Seminar</td>
<td>1</td>
<td>C</td>
<td>• Apply for full-time career opportunities.</td>
</tr>
<tr>
<td>BCH 361: Advanced Principles of Biochemistry</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>BCH 367: Elementary Biochemistry Laboratory</td>
<td>1</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division Literacy and Critical Inquiry (L)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

### Term 8 106 - 120 Credit Hours

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 378: Animal Nutrition</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Complete 2 courses:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division Pre Vet Elective</td>
<td>6</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Elective OR ABS 484: Internship</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

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

Pre-Veterinary Electives (12 Hours Required)
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 2018 - 2019 academic year.