# 2018 - 2019 Major Map

**Biophysics, BS**

**School/College:** The College of Liberal Arts and Sciences  
**Location:** Tempe campus

LABIPHBS

<table>
<thead>
<tr>
<th>Term 1 0 - 15 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 270: Calculus with Analytic Geometry I (MA)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>BIO 181: General Biology I (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>LIA 101: Student Success in the College of Liberal Arts and Sciences</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maintain 2.50 GPA in Critical Tracking Courses.</strong></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Term hours subtotal:** 15

<table>
<thead>
<tr>
<th>Term 2 15 - 30 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 271: Calculus with Analytic Geometry II (MA)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>PHY 150: Physics I (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>BIO 182: General Biology II (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Complete ENG 101 OR ENG 105 OR ENG 107 course(s).</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maintain 2.50 GPA in Critical Tracking Courses.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 15

<table>
<thead>
<tr>
<th>Term 3 30 - 45 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 272: Calculus with Analytic Geometry III (MA)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>PHY 151: Physics II (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>CHM 117: General Chemistry for Majors I (SQ) AND CHM 111: General Chemistry Laboratory for Majors I (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>CLAS Science and Society Elective</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Maintain 2.50 GPA in Critical Tracking Courses.</strong></td>
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<td></td>
</tr>
</tbody>
</table>

**Complete Mathematics (MA) requirement.**

**Term hours subtotal:** 15

<table>
<thead>
<tr>
<th>Term 4 45 - 62 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 201: Mathematical Methods in Physics I (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>PHY 252: Physics III (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

- An SAT, ACT, Accuplacer, IELTS or TOEFL score determines placement into first-year composition courses
- 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
- PHY 121/122 and 131/132 (or other equivalents) may be used in place of PHY 150 and 151, respectively
- Join a physics student organization
- PHY 121/122 and 131/132 (or other equivalents) may be used in place of PHY 150 and 151, respectively
- CHM 113 may be used in place of CHM 117 and CHM 111
- CHM 116 may be used in place of CHM 118 and CHM 112.
All students pursuing a B.S. or B.S.P. degree in the College of Liberal Arts and Sciences must complete two courses from the Science and Society list found at https://clas.asu.edu/resources/science-society. At least one of the two courses must be

- Maintain 2.50 GPA in Critical Tracking Courses.

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Term 5 | 62 - 77 Credit Hours | Necessary course signed by 🟩 | Hours | Minimum Grade | Notes
-----|---------------------|--------------------------------|-------|---------------|-------
   ![CHM 345: Physical Chemistry I](image) | 3 | C | • Gain research experience
   ![BIO 360: Animal Physiology OR BIO 353: Cell Biology](image) | 3 | C |
   ![Upper Division CLAS Science and Society Elective](image) | 3 | C |
   ![Literacy and Critical Inquiry (L)](image) | 3 |
   ![Elective](image) | 3 |
```

Term hours subtotal: 15

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Term 6 | 77 - 92 Credit Hours | Necessary course signed by 🟩 | Hours | Minimum Grade | Notes
-----|---------------------|--------------------------------|-------|---------------|-------
   ![CHM 346: Physical Chemistry II](image) | 3 | C |
   ![PHY 312: Mechanics and Electromagnetism](image) | 3 | C | • Use Handshake to research employment opportunities
   ![Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)](image) | 3 |
   ![Social-Behavioral Sciences (SB)](image) | 3 |
   ![Upper Division Elective](image) | 3 |
   ![Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).](image) |
```

Term hours subtotal: 15

```
Term 7 | 92 - 107 Credit Hours | Necessary course signed by 🟩 | Hours | Minimum Grade | Notes
-----|---------------------|--------------------------------|-------|---------------|-------
   ![PHY 371: Driving Forces in Biology](image) | 3 | C | • Develop your professional online presence
   ![PHY 472: Advanced Biophysics Lab](image) | 3 | C |
   ![Upper Division Literacy and Critical Inquiry (L)](image) | 3 |
   ![Upper Division Elective OR PHY 484: Internship](image) | 3 |
   ![Elective](image) | 3 |
```

Term hours subtotal: 15

```
Term 8 | 107 - 120 Credit Hours | Necessary course signed by 🟩 | Hours | Minimum Grade | Notes
-----|---------------------|--------------------------------|-------|---------------|-------
   ![PHY 473: From Molecules to Cells](image) | 3 | C |
   ![Complete 3 courses:](image) | 9 |
   ![Upper Division Elective](image) | 1 |
```

Term hours subtotal: 13

- MAT 275 (Modern Differential Equations) AND MAT 342 (Linear Algebra) may be taken in place of PHY 201. The combination MAT 275 + MAT 342 is sufficient, but PHY 201 is recommended.
- Explore research fields within physics.
Please keep in mind that the applicability of a specific transfer course toward an ASU degree program depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Transfer agreements that guarantee the completion of university level requirements do not necessarily meet college and major requirements. Please consult with an advisor for more information.

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.