### 2022 - 2023 Major Map

**Applied Science (Medical Laboratory Science), BAS**

**School/College:** College of Health Solutions  
**Location:** Downtown Phoenix campus  
**NUMLSBAS**

#### Applicable Community College Prerequisites 0 - 90 Credit Hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term 5 90 - 99 Credit Hours**  
**Necessary course signified by ★**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
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<tr>
<td>3</td>
<td></td>
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<tr>
<td>3</td>
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</tbody>
</table>

**Term hours subtotal:** 9

- Students may meet lower division general studies requirements with the AAS degree.
- Students must complete all ASU general studies requirements in order to earn ASU BAS degree.
- Students should work with their academic advisor to run DARS graduation audit to determine needed general studies requirements.

#### Term 6 99 - 108 Credit Hours **Necessary course signified by ★**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>C</td>
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</tr>
<tr>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>C</td>
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</tbody>
</table>

**Minimum 2.50 GPA ASU Cumulative.**

**Term hours subtotal:** 9

#### Summer 6 108 - 112 Credit Hours **Necessary course signified by ★**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
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<tr>
<td>1</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>C</td>
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</tr>
</tbody>
</table>

**Minimum 2.50 GPA ASU Cumulative.**

**Term hours subtotal:** 9

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**Upper Division Computer/Statistics/Quantitative Applications (CS)**  
**Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)**  
**Upper Division Literacy and Critical Inquiry (L)**

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**MDL 410: Laboratory Leadership**  
**MDL 420: Advanced Clinical Urinalysis and Body Fluids**  
**MDL 430: Advanced Hematology and Hemostasis**  
**MDL 440: Advanced Immunohematology and Immunology**  
**Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).**

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**MDL 421: Advanced Practicum in Clinical Urinalysis and Body Fluids**  
**MDL 431: Advanced Practicum in Hematology and Hemostasis**  
**MDL 441: Advanced Practicum in Immunohematology and Immunology**

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- Develop your professional online presence
### Term 7 112 - 118 Credit Hours

<table>
<thead>
<tr>
<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL 450: Advanced Clinical Microbiology</td>
<td>3</td>
<td>C</td>
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</tr>
<tr>
<td>MDL 460: Advanced Clinical Chemistry</td>
<td>3</td>
<td>C</td>
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</tbody>
</table>

Minimum 2.50 GPA ASU Cumulative.

Term hours subtotal: 4

### Term 8 118 - 120 Credit Hours

<table>
<thead>
<tr>
<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL 451: Advanced Practicum: Clinical Microbiology</td>
<td>1</td>
<td>C</td>
<td>• Apply for full-time career opportunities</td>
</tr>
<tr>
<td>MDL 461: Advanced Practicum: Clinical Chemistry</td>
<td>1</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

Minimum 2.50 GPA ASU Cumulative.

Term hours subtotal: 2

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](https://cisa.asu.edu/DSP)
- Mathematics Placement Assessment score determines placement in first mathematics course.

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: 90 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 2022 - 2023 academic year.