# 2019 - 2020 Major Map
## Environmental Science, BA

**School/College:** New College of Interdisciplinary Arts and Sciences  
**Location:** West campus, ASU@Lake Havasu  
**ASENVBA**

<table>
<thead>
<tr>
<th>Term 1 0 - 15 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIO 181: General Biology I (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td>An SAT, ACT, Accuplacer, IELTS or TOEFL score determines placement into first-year composition courses. Mathematics Placement Assessment score determines placement into mathematics courses. ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students. NEW 101 satisfies this requirement. IAS 300 is required in place of NEW 101 for transfer students. Select your Career Interest Communities and play me3@ASU. Activate your Handshake account and build out your profile.</td>
<td></td>
</tr>
<tr>
<td><strong>CHM 113: General Chemistry I (SQ)</strong></td>
<td>4</td>
<td>C</td>
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</tr>
<tr>
<td><strong>ENG 101</strong> or <strong>ENG 102: First-Year Composition OR</strong></td>
<td>3</td>
<td>C</td>
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<tr>
<td><strong>ENG 105: Advanced First-Year Composition</strong> OR</td>
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<tr>
<td><strong>ENG 107</strong> or <strong>ENG 108: First-Year Composition</strong></td>
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<tr>
<td><strong>MAT 170: Precalculus (MA)</strong></td>
<td>3</td>
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<tr>
<td><strong>NEW 101: The ASU New College Experience</strong></td>
<td>1</td>
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<tr>
<td><strong>Term hours subtotal:</strong></td>
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<td></td>
<td>15</td>
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<table>
<thead>
<tr>
<th>Term 2 15 - 29 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIO 182: General Biology II (SG)</strong></td>
<td>4</td>
<td>C</td>
<td>Create a first draft resume. Join a student club or professional organization. Secure a part-time job or volunteer experience.</td>
<td></td>
</tr>
<tr>
<td><strong>CHM 116: General Chemistry II (SQ)</strong></td>
<td>4</td>
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</tr>
<tr>
<td><strong>ENG 101</strong> or <strong>ENG 102: First-Year Composition OR</strong></td>
<td>3</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ENG 105: Advanced First-Year Composition</strong> OR</td>
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</tr>
<tr>
<td><strong>ENG 107</strong> or <strong>ENG 108: First-Year Composition</strong></td>
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<tr>
<td><strong>STP 226: Elements of Statistics (CS)</strong></td>
<td>3</td>
<td>C</td>
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<tr>
<td><strong>Complete ENG 101</strong> OR <strong>ENG 105</strong> OR <strong>ENG 107 course(s).</strong></td>
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<td><strong>Term hours subtotal:</strong></td>
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<table>
<thead>
<tr>
<th>Term 3 29 - 43 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENV 201: Fundamentals of Environmental Science</strong></td>
<td>3</td>
<td>C</td>
<td>PHY 101 is required. Student may choose either GLG 108 or GLG 101+ENV 103. Develop your research skills. Develop your professional skills. Build your professional connections - join the ASU Mentor Network.</td>
<td></td>
</tr>
<tr>
<td><strong>PHY 101: Introduction to Physics (SQ) OR GLG 108: Water Planet (SQ) OR GLG 101: Introduction to Geology I (Physical) (SQ) AND ENV 103: Field and Lab Geology for Environmental Science</strong></td>
<td>4</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHM 231: Elementary Organic Chemistry (SQ) AND CHM 235: Elementary Organic Chemistry Laboratory (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>OGL 240: Introduction to Project Management</strong></td>
<td>3</td>
<td>C</td>
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<tr>
<td><strong>Complete First-Year Composition requirement.</strong></td>
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<tr>
<td><strong>Complete Mathematics (MA) requirement.</strong></td>
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</tr>
<tr>
<td><strong>Term hours subtotal:</strong></td>
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<td>14</td>
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</table>

<table>
<thead>
<tr>
<th>Term 4 43 - 59 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
</table>

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Page 1
PHY 101: Introduction to Physics (SQ) OR GLG 108: Water Planet (SQ) or GLG 101: Introduction to Geology I (Physical) (SQ) AND ENV 103: Field and Lab Geology for Environmental Science

ECN 212: Microeconomic Principles (SB) 3 C
GPH 210: Society and Environment (G) 3 C
SOS 111: Sustainable Cities ((HU or SB) & G) 3 C
Social Science Elective 3 C

Term hours subtotal: 16

<table>
<thead>
<tr>
<th>Term 5 59 - 74 Credit Hours Necessary course signed by ⭐</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 302: Environmental Chemistry</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>LSC 347: Fundamentals of Genetics</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Humanities, Arts and Design (HU) AND Upper Division Ethics/Humanities Elective</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Literacy and Critical Inquiry (L) OR IAS 300: Career Strategies and Personal Resilience (L or SB)</td>
<td>3</td>
<td>C</td>
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</tr>
</tbody>
</table>

Term hours subtotal: 15

<table>
<thead>
<tr>
<th>Term 6 74 - 90 Credit Hours Necessary course signed by ⭐</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 331: Environmental Sociology (SB &amp; G)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Science Elective AND Upper Division Literacy and Critical Inquiry (L) ( ENV 388 recommended)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Science Elective</td>
<td>3-4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity in the U.S. (C) AND Historical Awareness (H)</td>
<td>3</td>
<td></td>
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<tr>
<td>Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s)</td>
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Term hours subtotal: 16-17

<table>
<thead>
<tr>
<th>Term 7 90 - 105 Credit Hours Necessary course signed by ⭐</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 345: Spatial Analysis in the Environmental Sciences</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Complete 2 courses: Upper Division Science Elective</td>
<td>6-8</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Cultural Diversity in the U.S. (C) OR Upper Division Global Awareness (G)</td>
<td>3</td>
<td>C</td>
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</tbody>
</table>

Term hours subtotal: 15-17

<table>
<thead>
<tr>
<th>Term 8 105 - 120 Credit Hours Necessary course signed by ⭐</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 385: Environmental Impact Assessment</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Humanities, Arts and Design (HU) AND Upper Division Ethics/Humanities Elective</td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td>Elective</td>
<td>3-4</td>
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</tbody>
</table>

• PHY 101 is required. Student may choose either GLG 108 or GLG 101+ENV 103.
• Explore an internship, an IGLE international experience or ASU Study Abroad.

• CHM 302 (3 credit hours) is required for all transfer students in place of NEW 101.
• Completion of Upper Division Ethics Electives in Term 5 and 8 will satisfy HU requirements.
• Thinking about graduate school? Consider registering for a graduate test prep course.
• Develop your professional online presence.

• Use Handshake to research employment opportunities.
• Complete an in person or virtual practice interview.

• If student chooses a 4 credit course for the upper division science elective requirement, 3 credits of general electives will need to be completed.
• Completion of the Upper Division Cultural Diversity in the U.S. (C) or Upper Division Global Awareness (G) AND SOC 331 in Term 6 satisfies the New College Language and Cultures requirement.
• Gather professional references.

• If student completed two 4-credit courses for the upper division science electives requirement, no additional credits for upper division science electives will be required this term.
<table>
<thead>
<tr>
<th>Upper Division Social Science Elective</th>
<th>3</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective OR ENV 484: Internship</td>
<td>3</td>
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</tbody>
</table>

Term hours subtotal: 15-16

• Completion of Upper Division Ethics/Humanities Electives in Term 5 and 8 will satisfy HU requirements.
• Apply for full-time career opportunities.

Upper Division Social Science Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IAS 340: Bioethics (HU) or PHI 320: Bioethics (HU)</td>
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<tr>
<td>IAS 406: Moral Dilemmas (L or HU) or PHI 406: Moral Dilemmas (L or HU)</td>
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<tr>
<td>IAS 407: Environmental Philosophy and Policy (L or HU) or PHI 407: Environmental Philosophy and Policy (L or HU)</td>
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<tr>
<td>IAS 409: Eco-Community Ethics (HU) or PHI 409: Eco-Community Ethics (HU)</td>
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<tr>
<td>PHI 360: Business and Professional Ethics (HU)</td>
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</tbody>
</table>

Upper Division Science Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIO 331: Animal Behavior</td>
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<tr>
<td>BIO 360: Animal Physiology</td>
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<tr>
<td>BIO 370: Vertebrate Zoology</td>
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<tr>
<td>BIO 385: Comparative Invertebrate Zoology</td>
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<tr>
<td>BIO 410: Techniques in Conservation Biology and Ecology (L)</td>
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<tr>
<td>BIO 412: Conservation in Practice</td>
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<tr>
<td>BIO 422: Ecosystem Ecology</td>
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<td>BIO 426: Limnology (L)</td>
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<td>BIO 447: Herpetology</td>
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<tr>
<td>BIO 499: Individualized Instruction</td>
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<tr>
<td>ENV 388: Research Fundamentals for the Natural Sciences (L)</td>
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<tr>
<td>ENV 410: Soil Science</td>
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<tr>
<td>ENV 484: Internship</td>
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<tr>
<td>ENV 492: Honors Directed Study</td>
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<tr>
<td>ENV 499: Individualized Instruction</td>
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<tr>
<td>LSC 484: Internship</td>
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<tr>
<td>LSC 499: Individualized Instruction</td>
<td></td>
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<tr>
<td>PLB 300: Plant Diversity and Evolution (L or SG)</td>
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<tr>
<td>PLB 302: Plants and Civilization (L)</td>
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<tr>
<td>PLB 308: Plant Physiology</td>
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<tr>
<td>PLB 310: The Flora of Arizona</td>
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<tr>
<td>PLB 394: Special Topics</td>
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<tr>
<td>PLB 494: Special Topics</td>
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Social Science Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ABS 381: Natural Resources Policy</td>
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<tr>
<td>ABS 479: Ecosystem Management and Planning (L)</td>
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<tr>
<td>ASB 272: Environmental Justice (SB)</td>
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<tr>
<td>ASB 326: Human Impacts on Ancient Environments (SB &amp; H)</td>
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<tr>
<td>ASB 375: Humans and the Environment: What's the Connection? ((L or SB) &amp; G)</td>
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<tr>
<td>COM 312: Communication, Conflict, and Negotiation</td>
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<td>COM 430: Leadership in Group Communication</td>
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<tr>
<td>ECN 211: Macroeconomic Principles (SB)</td>
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<td>ERM 428: International Environmental Management (G)</td>
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<td>HST 345: Environmental History (L)</td>
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<tr>
<td>OGL 200: Introduction to Organizational Leadership (SB)</td>
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<tr>
<td>OGL 300: Theory and Practice of Leadership</td>
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<tr>
<td>OGL 355: Leading Organizational Innovation and Change</td>
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<tr>
<td>POS 110: American Government and Politics (SB)</td>
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<td>POS 331: Public Opinion (SB)</td>
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<tr>
<td>POS 426: Elements of Public Policy (SB)</td>
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<td>PUP 301: Introduction to Urban Planning (L)</td>
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<tr>
<td>SOC 333: Population (SB &amp; G)</td>
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<tr>
<td>SOS 230: Professional Skills in Sustainability</td>
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<tr>
<td>SOS 311: Future Thinking and Strategies</td>
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<tr>
<td>SOS 385: Business and Sustainability I</td>
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</tbody>
</table>

Total Hours: 120
Upper Division Hours: 45 minimum

General University Requirements Legend
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 2019 - 2020 academic year.