### 2020 - 2021 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></td>
<td>4</td>
<td>C</td>
<td></td>
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<tr>
<td><strong>CHM 113: General Chemistry I (SQ)</strong></td>
<td></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</strong></td>
<td></td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td><strong>MAT 170: Precalculus (MA)</strong></td>
<td></td>
<td>3</td>
<td>C</td>
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<tr>
<td><strong>NEW 101-M: The ASU New College Experience</strong></td>
<td></td>
<td>1</td>
<td></td>
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<tr>
<td><strong>Term hours subtotal:</strong></td>
<td></td>
<td>15</td>
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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 first-year 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.

<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></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>CHM 116: General Chemistry II (SQ)</strong></td>
<td></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</strong></td>
<td></td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td><strong>STP 226: Elements of Statistics (CS)</strong></td>
<td></td>
<td>3</td>
<td>C</td>
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<tr>
<td><strong>Complete ENG 101 OR ENG 105 OR ENG 107 course(s).</strong></td>
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<td><strong>Term hours subtotal:</strong></td>
<td></td>
<td>14</td>
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</tbody>
</table>

Create a first draft resume.  
Join a student club or professional organization.  
Secure a part-time job or volunteer experience.

<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></td>
<td>3</td>
<td>C</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></td>
<td>4</td>
<td>C</td>
<td></td>
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<tr>
<td><strong>CHM 231: Elementary Organic Chemistry (SQ) AND CHM 235: Elementary Organic Chemistry Laboratory (SQ)</strong></td>
<td></td>
<td>4</td>
<td>C</td>
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<tr>
<td><strong>OGL 240: Introduction to Project Management</strong></td>
<td></td>
<td>3</td>
<td>C</td>
<td></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>
<td><strong>Term hours subtotal:</strong></td>
<td></td>
<td>14</td>
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<td></td>
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</table>

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.

<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>
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

Term 5 59 - 74 Credit Hours Necessary course signified by ⭐

CHM 302: Environmental Chemistry 3 C
LSC 347: Fundamentals of Genetics 3 C
Social Science Elective 3 C
Upper Division Humanities, Arts and Design (HU) AND Upper Division Ethics/Humanities Elective 3 C
Upper Division Literacy and Critical Inquiry (L) OR IAS 300: Career Strategies and Personal Resilience (L or SB) 3 C

Term hours subtotal: 15

Term 6 74 - 90 Credit Hours Necessary course signified by ⭐

SOC 331: Environmental Sociology (SB & G) 3 C
Upper Division Science Elective AND Upper Division Literacy and Critical Inquiry (L) ( ENV 388 recommended) 3 C
Upper Division Science Elective 3-4 C
Cultural Diversity in the U.S. (C) AND Historical Awareness (H) 3
Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).

Term hours subtotal: 16-17

Term 7 90 - 105 Credit Hours Necessary course signified by ⭐

ENV 345: Spatial Analysis in the Environmental Sciences 3 C
Complete 2 courses:
Upper Division Science Elective 6-8 C
Social Science Elective 3 C
Upper Division Cultural Diversity in the U.S. (C) OR Upper Division Global Awareness (G) 3 C

Term hours subtotal: 15-17

Term 8 105 - 120 Credit Hours Necessary course signified by ⭐

ENV 385: Environmental Impact Assessment 3 C
Upper Division Humanities, Arts and Design (HU) AND Upper Division Ethics/Humanities Elective 3 C
Elective 3-4

• 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.

• IAS 300 (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.
Upper Division Ethics/Humanities Electives

- IAS 340: Bioethics (HU) or PHI 320: Bioethics (HU)
- IAS 406: Moral Dilemmas (L or HU) or PHI 406: Moral Dilemmas (L or HU)
- IAS 407: Environmental Philosophy and Policy (L or HU) or PHI 407: Environmental Philosophy and Policy (L or HU)
- IAS 409: Eco-Community Ethics (HU) or PHI 409: Eco-Community Ethics (HU)
- PHI 360: Business and Professional Ethics (HU)

Upper Division Science Electives

- BIO 331: Animal Behavior
- BIO 360: Animal Physiology
- BIO 370: Vertebrate Zoology
- BIO 385: Comparative Invertebrate Zoology
- BIO 410: Techniques in Conservation Biology and Ecology (L)
- BIO 412: Conservation in Practice
- BIO 422: Ecosystem Ecology
- BIO 426: Limnology (L)
- BIO 474: Herpetology
- BIO 499: Individualized Instruction
- ENV 388: Research Fundamentals for the Natural Sciences (L)
- ENV 394: Special Topics
- ENV 494: Special Topics
- ENV 410: Soil Science
- ENV 484: Internship
- ENV 492: Honors Directed Study
- ENV 499: Individualized Instruction
- ERM 502: Regulatory Framework for Toxic and Hazardous Substances
- ERM 520: Sustainability and Sustainable Development
- ERM 522: Air Pollution and Toxic Chemicals
- ERM 523: Soils and Groundwater Contamination
- ERM 527: Environmental/Resources Regulations Concepts
- ERM 535: Water Law and Policy
- ERM 598: Environmental Health
- LSC 484: Internship

Social Science Electives

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

Upper Division Science Electives

Elective OR ENV 484: Internship

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.
LSC 499: Individualized Instruction

PLB 300: Plant Diversity and Evolution (L or SG) or ENV 300: Plant Diversity and Evolution (L or SG)

PLB 302: Plants and Civilization (L) or ENV 302: Plants and Civilization (L)

PLB 308: Plant Physiology

PLB 310: The Flora of Arizona

PLB 394: Special Topics

PLB 494: Special Topics

PLB 499: Individualized Instruction

<table>
<thead>
<tr>
<th>Total Hours: 120</th>
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<tbody>
<tr>
<td>Upper Division Hours: 45 minimum</td>
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<tr>
<td>Major GPA: 2.00 minimum</td>
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<tr>
<td>Cumulative GPA: 2.00 minimum</td>
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<tr>
<td>Total hrs at ASU: 30 minimum</td>
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<td>Hrs Resident Credit for Academic Recognition: 56 minimum</td>
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<tr>
<td>Total Community College Hrs: 64 maximum</td>
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<tr>
<td>Total College Residency Hrs: 12 minimum</td>
</tr>
</tbody>
</table>

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 2020 - 2021 academic year.