### 2018 - 2019 Major Map

**Environmental Science, BA**

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

<table>
<thead>
<tr>
<th>Term</th>
<th>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>Term 1</strong></td>
<td>0 - 15</td>
<td><strong>BIO 181:</strong> General Biology I (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>CHM 113:</strong> General Chemistry I (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>
| | | **ENG 101** or **ENG 102:** First-Year Composition OR  
**ENG 105:** Advanced First-Year Composition OR  
**ENG 107** or **ENG 108:** First-Year Composition | 3 | C | |
| | | **MAT 170:** Precalculus (MA) | 3 | C | |
| | | **NEW 101:** The ASU New College Experience | 1 | | |
| | **Term hours subtotal:** | | | 15 | |
| **Term 2** | 15 - 29 | **BIO 182:** General Biology II (SG) | 4 | C | |
| | | **CHM 116:** General Chemistry II (SQ) | 4 | C | |
| | | **ENG 101** or **ENG 102:** First-Year Composition OR  
**ENG 105:** Advanced First-Year Composition OR  
**ENG 107** or **ENG 108:** First-Year Composition | 3 | C | |
| | | **STP 226:** Elements of Statistics (CS) | 3 | C | |
| | Complete **ENG 101** OR **ENG 105** OR **ENG 107** course(s). | | | | |
| | **Term hours subtotal:** | | | 14 | |
| **Term 3** | 29 - 43 | **ENV 201:** Fundamentals of Environmental Science | 3 | C | |
| | | **PHY 101:** Introduction to Physics (SQ) OR **GLG 108:** Water Planet (SQ) OR **GLG 101:** Introduction to Geology I (Physical) (SQ) AND GLG 103: Introduction to Geology I-Laboratory (SQ) | 4 | C | |
| | | **CHM 231:** Elementary Organic Chemistry (SQ) AND **CHM 235:** Elementary Organic Chemistry Laboratory (SQ) | 4 | C | |
| | | **OGL 240:** Introduction to Project Management | 3 | C | |
| | Complete First-Year Composition requirement. | | | | |
| | Complete Mathematics (MA) requirement. | | | | |
| | **Term hours subtotal:** | | | 14 | |
| **Term 4** | 43 - 59 | **PHY 101:** Introduction to Physics (SQ) OR **GLG 108:** Water Planet (SQ) OR **GLG 101:** Introduction to Geology I (Physical) (SQ) AND GLG 103: Introduction to Geology I-Laboratory (SQ) | 4 | C | |
| | | **Note:** PHY 101 is required. Student may choose either GLG 108 or GLG 101 and GLG 103.  
**Note:** Develop your research skills. | | | |

- 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 area and play me3@ASU.
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECN 212: Microeconomic Principles (SB)</td>
<td>3 C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPH 210: Society and Environment (G)</td>
<td>3 C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOS 111: Sustainable Cities ((HU or SB) &amp; G)</td>
<td>3 C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3 C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Term hours subtotal:</td>
<td>16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term 5 59 - 74 Credit Hours Necessary course signified by ★**

- CHM 302: Environmental Chemistry                                    | 3 C   |               | IAS 300 (3 credit hours) is required for all transfer students in place of NEW 101.             |
- LSC 347: Fundamentals of Genetics                                   | 3 C   |               | Completion of Upper Division Ethics Electives in Term 5 and 8 will satisfy HU requirements.     |
- Social Science Elective                                              | 3 C   |               |                                                                                                 |
- Upper Division Humanities, Arts and Design (HU) AND Upper Division Ethics/Humanities Elective | 3 C   |               | Develop your professional online presence.                                                     |
- Upper Division Literacy and Critical Inquiry (L) OR IAS 300: Adult Career Development (L or SB) | 3 C   |               |                                                                                                 |
| Term hours subtotal:                                                 | 15    |               |                                                                                                 |

**Term 6 74 - 91 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 C   |               |                                                                                                 |
- Elective                                                            | 1     |               |                                                                                                 |
- Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s). |       |               |                                                                                                 |
| Term hours subtotal:                                                 | 17-18 |               |                                                                                                 |

**Term 7 91 - 105 Credit Hours Necessary course signified by ★**

- ENV 345: Spatial Analysis in the Environmental Sciences              | 3 C   |               | If student chooses a 4 credit course for the upper division science elective requirement, 3 credits of general electives will need to be completed. |
- Upper Division Science Elective                                      | 3-4 C |               | 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. |
- Social Science Elective                                              | 3 C   |               |                                                                                                 |
- Upper Division Cultural Diversity in the U.S. (C) OR Upper Division Global Awareness (G) | 3 C   |               |                                                                                                 |
- Elective                                                            | 2-3   |               |                                                                                                 |
| Term hours subtotal:                                                 | 14-16 |               |                                                                                                 |

**Term 8 105 - 120 Credit Hours Necessary course signified by ★**

- ENV 385: Environmental Impact Assessment                             | 3 C   |               | 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 Humanities, Arts and Design (HU) AND Upper Division Ethics/Humanities Elective | 3 C   |               | Completion of Upper Division Ethics Electives in Term 5 and 8 will satisfy HU requirements.     |
- Upper Division Science Elective                                      | 3-0 C |               |                                                                                                 |
- Upper Division Social Science Elective                               | 3 C   |               |                                                                                                 |
- Elective OR ENV 484: Internship                                      | 3 C   |               |                                                                                                 |
| Term hours subtotal:                                                 | 15-12 |               |                                                                                                 |
General University Requirements Legend

**General Studies Core Requirements:**
- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)

---

**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 410: Soil Science
ENV 484: Internship
ENV 492: Honors Directed Study
ENV 499: Individualized Instruction
LSC 434: Marine Ecology
LSC 484: Internship
LSC 499: Individualized Instruction
PLB 300: Plant Diversity and Evolution (L or SG)
PLB 302: Plants and Civilization
PLB 308: Plant Physiology
PLB 310: The Flora of Arizona

---

**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 (L)
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

---

**Total Hours:** 120
**Upper Division Hours:** 45 minimum
**Major GPA:** 2.00 minimum
**Cumulative GPA:** 2.00 minimum
**Total hrs at ASU:** 30 minimum
General Studies designations listed on the major map are current for the 2018 - 2019 academic year.

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.