





















2024 - 2025 Major Map

Environmental Science, BA

School/College: New College of Interdisciplinary Arts and Sciences
ASENVBA

Term 1 0 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 181: General Biology I (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> ASU 101 or college-specific First-Year Seminar required of all first-year students. NEW 101 satisfies this requirement. IAS 300 (three credit hours) is required for all transfer students in New College. Select your Career Interest Community and play me3@ASU. Activate your Handshake account and build out your profile.
 CHM 113: General Chemistry I (SCIT OR 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	
MAT 170: Precalculus (MATH OR MA) OR MAT 210: Brief Calculus (MATH OR MA) OR MAT 251: Calculus for Life Sciences (MATH OR MA) OR MAT 270: Calculus with Analytic Geometry I (MATH OR MA)	3-4	C	
NEW 101: The ASU New College Experience OR IAS 300: Career Strategies and Personal Resilience (L or SB)	1-3		
Term hours subtotal:	15-18		
Term 2 15 - 29 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 182: General Biology II (SCIT OR SG)	4	C	<ul style="list-style-type: none"> Create a first draft resume. Join a student club or professional organization. Secure a part-time job or volunteer experience.
 CHM 116: General Chemistry II (SCIT OR 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 (QTRS OR CS) OR STP 280: Probability and Statistics for Researchers (QTRS OR CS)	3	C	
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	14		
Term 3 29 - 43 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ENV 201: Fundamentals of Environmental Science (SUST)	3	C	<ul style="list-style-type: none"> Develop your research skills. Develop your professional skills. Interested in pre-professional pathways? Explore our pre-health and pre-law websites.
CHM 231: Elementary Organic Chemistry (SCIT OR SQ) AND CHM 235: Elementary Organic Chemistry Laboratory (SCIT OR SQ) OR CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I	4	C	
PHY 101: Introduction to Physics (SCIT OR SQ) OR PHY 111: General Physics (SCIT OR SQ) AND PHY 113: General Physics Laboratory (SCIT OR SQ)	4	C	
Social Science Elective	3	C	
 Complete First-Year Composition requirement. Complete Mathematics (MATH) requirement.			
Term hours subtotal:	14		
		Minimum	

Term 4 43 - 59 Credit Hours Critical course signified by 	Hours	Grade	Notes
 GLG 108: Water Planet (SCIT OR SQ) OR GLG 101: Introduction to Geology I (Physical) (SCIT OR SQ) AND ENV 103: Introduction to Geology I: Laboratory (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> Explore an internship, an IGLE international experience or ASU Study Abroad.
ECN 212: Microeconomic Principles (SOBE OR SB)	3	C	
GPH 210: Society and Environment	3	C	
SOS 111: Sustainable Cities (SUST OR (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 	Hours	Minimum Grade	Notes
 CHM 302: Environmental Chemistry	3	C	<ul style="list-style-type: none"> Thinking about graduate school? Consider registering for a grad school test prep course and explore accelerated master's degrees. Develop your professional online presence.
BIO 353: Cell Biology OR LSC 347: Fundamentals of Genetics	3	C	
IAS 407: Environmental Philosophy and Policy (L or HU) or PHI 407: Environmental Philosophy and Policy (L or HU) OR IAS 409: Eco-Community Ethics (HU) or PHI 409: Eco-Community Ethics (HU)	3	C	
Social Science Elective	3	C	
Upper Division Elective	2-0		
Elective	1-2		
Term hours subtotal:	15-14		
Term 6 74 - 90 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 ENV 345: Spatial Analysis in the Environmental Sciences	3	C	<ul style="list-style-type: none"> Up to six credit hours (two completions) of 499 Individualized Instruction or 484 Internship can be used towards Upper Division Science Electives. However, to be applied, each completion of 499/484 must be a unique experience with a different instructor. Use Handshake to research employment opportunities. Complete an in person or virtual practice interview.
BIO 320: Fundamentals of Ecology AND LSC 322: Fundamentals of Ecology Laboratory	4	C	
SOC 331: Environmental Sociology (SUST OR SB & G)	3	C	
Upper Division Science Elective	3	C	
Humanities, Arts and Design (HUAD)	3		
Term hours subtotal:	16		
Term 7 90 - 105 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 <i>Complete 2 courses:</i> Upper Division Science Elective	6	C	<ul style="list-style-type: none"> Up to six credit hours (two completions) of 499 Individualized Instruction or 484 Internship can be used towards Upper Division Science Electives. However, to be applied, each completion of 499/484 must be a unique experience with a different instructor. Gather professional references.
Upper Division Global and Civic Engagement Requirement: satisfied through completion of 6 credits of upper-division courses with a Global Communities, Societies and Individuals (GCSI) or Governance and Civic Engagement (CIVI) designation, in addition to the courses used to meet the university General Studies requirements; or completion of 3 credits from an ASU-approved Global Education program. Adjustment to upper-division and elective hours is required if a lower-division Global Education course is used.	3	C	
Global Communities, Societies and Individuals (GCSI)	3		
Humanities, Arts and Design (HUAD)	3		
Term hours subtotal:	15		
Term 8 105 - 120 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 ENV 485: Environmental Impact Assessment (CIVI OR L)	3	C	

Upper Division Global and Civic Engagement Requirement: satisfied through completion of 6 credits of upper-division courses with a Global Communities, Societies and Individuals (GCSI) or Governance and Civic Engagement (CIVI) designation, in addition to the courses used to meet the university General Studies requirements; or completion of 3 credits from an ASU-approved Global Education program. Adjustment to upper-division and elective hours is required if a lower-division Global Education course is used.

3 C

Upper Division Science Elective

3 C

Upper Division Social Science Elective

3 C

American Institutions (AMIT)

3

Term hours subtotal: 15

- Apply for **full-time career opportunities**.

- Upper Division Science Electives: Complete three to four courses (12 credit hours).
- Up to six credit hours (two completions) of 499 Individualized Instruction can be used towards Upper Division Science Electives. However, to be applied, each completion of 499 must be a unique experience with a different instructor.
- Social Science Electives: Complete four courses (12 credit hours).

Hide Course List(s)/Track Group(s)

Upper Division Science Electives	Social Science Electives
BIO 345: Evolution	ABS 381: Natural Resources Policy
BIO 360: Animal Physiology	ABS 479: Ecosystem Management and Planning (L)
BIO 370: Vertebrate Zoology	ASB 272: Economic Justice (CIVI OR SB)
BIO 385: Comparative Invertebrate Zoology	ASB 326: Human Impacts on Ancient Environments (SUST OR SB & H)
BIO 410: Techniques in Conservation Biology and Ecology	ASB 375: Humans and the Environment: What's the Connection? ((L or SB) & G)
BIO 412: Conservation in Practice	COM 312: Communication, Conflict, and Negotiation (CIVI)
BIO 422: Ecosystem Ecology	COM 328: Communicating Science
BIO 426: Limnology (L)	COM 430: Leadership in Group Communication
BIO 431: Genes, Development, and Evolution (L)	ECN 211: Macroeconomic Principles (SOBE OR SB)
BIO 474: Herpetology	ERM 428: International Environmental Management (G)
BIO 499: Individualized Instruction or ENV 499: Individualized Instruction or LSC 499: Individualized Instruction or PLB 499: Individualized Instruction	HST 345: Environmental History (SUST OR L)
ENV 300: Plant Diversity and Evolution (L or SG) or PLB 300: Plant Diversity and Evolution (L or SG)	OGL 200: Introduction to Organizational Leadership (CIVI OR SB)
ENV 302: Plants and Civilization or PLB 302: Plants and Civilization	OGL 300: Theory and Practice of Leadership
ENV 388: STEM Research Fundamentals or PLB 388: STEM Research Fundamentals	OGL 355: Leading Organizational Innovation and Change
ENV 394: Animal Behavior in a Changing Environment or LSC 394: Animal Behavior in a Changing Environment	PMG 240: Introduction to Project Management

ENV 394: Special Topics or PLB 394: Special Topics	POS 110: American Government and Politics (AMIT OR SB)
ENV 410: Soil Science	POS 331: Public Opinion (SB)
ENV 412: Carbon, Climate and Photosynthesis or PLB 412: Carbon, Climate and Photosynthesis	POS 426: Elements of Public Policy (SB)
ENV 415: Field Techniques in Natural Resource Management	PUP 301: Introduction to Urban Planning (L)
ENV 484: Internship or LSC 484: Internship	SOC 333: Population (SB & G)
ENV 492: Honors Directed Study	SOS 230: Professional Skills in Sustainability
ENV 494: Special Topics or PLB 494: Special Topics	SOS 311: Future Thinking and Strategies
ERM 502: Regulatory Framework for Toxic and Hazardous Substances	SOS 385: Business and Sustainability I (SUST)
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	
LSC 434: Marine Ecology	
PLB 308: Plant Physiology	
PLB 310: The Flora of Arizona	
PLB 375: Forensic Botany or FOR 375: Forensic Botany	

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- University Undergraduate Graduation Requirements

Notes:

Mathematics Placement Assessment score determines placement in first mathematics course.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.