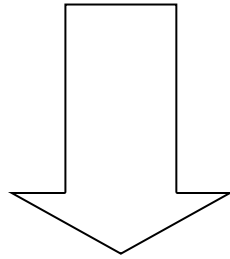


# **Environmental Science Pathway**

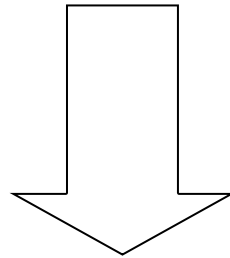
Arizona Western College

Associates of Environmental Science with a biology emphasis



Northern Arizona University– Yuma

Bachelor's in Environmental Science with a biology emphasis



Food and Agricultural Science Careers

- Agronomist
- Environmental consultant
- Environmental education officer
- Environmental manager
- EPA
- FDA
- Nature conservation officer
- Recycling officer
- Sustainability consultant
- USDA
- Waste management officer
- Water quality scientist

# Bachelor of Science: Biological and Ecological Sciences

## Degree Requirements & 4-Year Plan

### Associate in Science & AGEC-S

Undergraduate Catalog (64 credits)  
(AWC Coursework)

This program is designed for those students pursuing a career in biological sciences. Students who wish to pursue a pre-med preparation should follow this program as well. It is recommended that all students who wish to enter other related fields, such as medical technology or pre-professional health science (pre-dental, pre-optometry, pre-pharmacy, and pre-veterinary) should also follow this program and consult with an Academic Advisor for the appropriate courses and sequences for their particular field.

#### TO EARN THE A.S. IN BIOLOGY YOU MUST COMPLETE REQUIREMENTS IN THE FOLLOWING 3 BLOCKS

#### 1. Required Major Courses (8 Credits)

BIO 181	General Biology (Majors) I	4 credits
BIO 182	General Biology (Majors) II	4 credits

#### 2. Other Departmental Requirements (19 Credits)

BIO 205	Microbiology	4 credits
MAT 270	Applied Statistics	4 credits

Select at least one of the following courses to satisfy the above requirement (4 credits)

BIO 234	Desert Biology	
ENV 230	Foundations	
GPH 239	Intro to Geographic Information Systems	

Select a minimum of 7 additional credits from the following courses: BIO 201, BIO 202, BIO 234, CHM 235, CHM 236, ENV 230, GPH 239, ENV 280, GLG 101, GLG 102, GLG 110, PLS 200, PLS 211, PLS 240, PHY 111, PHY 112, PHY 121, and PHY 131 (7 credits)

CHM 235	Organic Chemistry I (Requirement for BS degree)	5 credits
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#### 3. ARIZONA GENERAL EDUCATION CURRICULUM -AGEC-S (37 Credits)

##### English Composition (6 credits)

ENG 101	Freshman Composition	3 credits
ENG 102	Freshman Composition	3 credits

##### Mathematics (5 credits)

MAT 220	Calculus I with Analytic Geometry <i>or</i> approved higher level math	5 credits
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##### Arts/Humanities – Select at least one course from the Arts list and one course from the Humanities list (6 credits)

	Arts	3 credits
	Humanities	3 credits

##### Social & Behavioral Sciences (6 credits)

	Social Science	3 credits
	Behavioral Science	3 credits

##### Physical & Biological Sciences (8 credits)

CHM 151	General Chemistry I	4 credits
CHM 152	General Chemistry II	4 credits

##### Additional Courses (see AGEC-S Additional Courses for possible selections) (6-8 credits)

PHY 111	College Physics I (Requirement for BS degree)	4 credits
PHY 112	College Physics II (Requirement for BS degree)	4 credits

##### General Electives

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### Bachelor of Science

Undergraduate Catalog (120 Units)  
(NAU Coursework)

The Biological and Ecological Sciences degree encompasses numerous cutting-edge disciplines. Each offers a multitude of exciting career paths. You can also train to teach biology in secondary and primary schools. You can prepare for admission to graduate, medical, dental, or veterinary school, or for other professional training.

#### TO EARN THE B.S. IN BIOLOGICAL AND ECOLOGICAL SCIENCES YOU MUST COMPLETE REQUIREMENTS IN THE FOLLOWING 4 BLOCKS

#### 1. LIBERAL STUDIES (FULFILLED BY COMPLETING AGEC-S FROM AWC) (35 Credits)

#### 2. OTHER SCIENCE AND GENERAL EDUCATION COURSES FROM AWC (29 Credits)

#### 3. MAJOR COURSES (35 Credits)

BSC 326/326LW (Jr. Level Writing Requirement)	Ecology: Ecology Lab	4 credits
BSC 350/350L	Classical and Molecular Genetics: Genetics Lab	4 credits
BSC 408 or 485	Fieldwork Experience, or Undergraduate Research	3 credits
BSC 435C	Evolutionary Biology	3 credits
BSC 460, BSC 460L or CHM 360, CHM 460L	Principles of Biochemistry: Biochemistry Lab, or Fundamental Biochemistry: Biochemistry Lab	4 credits

At least 14 credits of additional NAU course work: any 100 to 200-level BIO courses except BIO 100 or any BIO recitation. Any BSC course except 310; up to 6 hours from BIO 497. Up to 6 units of non-BIO prefix courses from the following: PSY 320, 350, 355, 370, 432

14 credits

#### 4. GENERAL ELECTIVES (21 Credits)

If you are considering a minor, 18 units of qualifying chemistry satisfy the requirements for the Minor in Chemistry.

*Program requirements are subject to change.*

**Please contact NAU-Yuma Science for most current information (928-317-6410).**

#### NAU-Yuma General Admission Requirements:

-At least 35 credits & the AGEC or California IGETC with a cumulative GPA of 2.5; or an associate degree with a cumulative GPA of 2.0

-You will be considered for admission if you have a 2.0 or higher overall college GPA (on a 4.0 scale) and at least 24 transferable academic college credits