

DEGREE MAP

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites, and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Program Name: Biology-Associate of Science Degree

Location(s) Offered:

Douglas Campus and Sierra Vista Campus

Learning Outcomes: *Students who successfully complete this program will be able to do the following:*

1. Demonstrate a working understanding of biological laboratory techniques including microscopy.
2. Demonstrate a working understanding of the processes of aerobic and anaerobic respiration.
3. Demonstrate a working understanding of the steps of molecular genetics including the concept of the gene and its expression.
4. Demonstrate a basic understanding of cellular biology.
5. Explain biological evolution, including natural selection and speciation, and the rules of nomenclature.
6. Demonstrate a working understanding of ecological principles.

Course or program prerequisite(s) not included in the degree:

CHM 151 General Chemistry I requires CHM 130 Fundamental Chemistry, CHM 138 Chemistry for Allied Health, or one year of high school chemistry.

ENG 101 Composition requires appropriate English placement score (or see advisor).

MAT 220 Calculus I requires appropriate mathematics placement score (or see advisor), MAT 187 Precalculus, or both MAT 151 Precalculus Algebra and MAT 182 Precalculus Trigonometry.

This program requires RDG 122 Reading Critically or exemption.

Program Reviewed: Feb 22, 2016

Key:

IW=Intensive Writing

F2F=Face-to-Face Instruction

ITV=Instructional Television

VC=Virtual Campus/Online

<i>Requirements</i>	<i>Course(s) Recommended</i>	<i>Delivery Method</i>	<i>Credits</i>
First Semester (Fall):			
Core Curriculum	BIO 181 General Biology I	F2F	4
General Education-Composition	ENG 101 Composition	F2F,VC	3
General Education-Mathematics	MAT 220 Calculus I or higher	F2F,VC	3-5
General Education-Social & Beh Sciences		F2F,VC	3
Second Semester (Spring):			
Core Curriculum	BIO 182 General Biology II	F2F	4
Core Curriculum	MAT 167 Elements of Statistics	F2F,ITV,VC	3
General Education-Composition	ENG 102 English Composition	F2F,VC	3
Elective**		F2F,VC	3
Elective**		F2F,VC	3
Third Semester (Fall):			
General Education-Add Math/Lab Sci*		F2F	3-4
General Education-Arts		F2F,VC	3
General Education-Lab Sciences	CHM 151 General Chemistry I	F2F	4
General Education-Social & Beh Sciences		F2F,VC	3
Elective**		F2F,VC	3
Fourth Semester (Spring):			
General Education-Add Math/Lab Sci*		F2F	3-4
General Education-Humanities		F2F,VC	3
General Education-Lab Sciences	CHM 152 General Chemistry II	F2F	4
Elective**		F2F,VC	3
Elective**		F2F,VC	2-6

Total credits required: 64

Notes:

Six credits of arts, humanities, or social and behavioral sciences must be chosen for the current listing of intensive writing courses. See www.cochise.edu/AGEC.

*Based on your major and after consulting with an advisor, select MAT 231, MAT 241, MAT 252, MAT 262, and/or appropriate laboratory science courses. See www.aztransfer.com/cgi-bin/WebObjects/agecweb.woa for a complete list.

**Elective courses must be transferable to the university or universities to which the student plans to transfer. See www.aztransfer.com.