

Amarillo College Curriculum Map Template

Division:	STEM
Degree/Academic Program(s):	Biology (BIOL.AS)
Dean:	Edie Carter
Chair/Director/Coordinator:	Richard Hobbs
Submission Date:	2018-19
Purpose Statement:	The mission of the Biology A.S. degree is for students to utilize common learning objectives to increase scientific literacy in order to critically evaluate scientific information to make informed decisions.

Goal #1: To graduate students with the ability to apply critical thinking and scientific problem-solving skills in the classroom. Outcomes including but not limited to, inquiring, synthesizing and summarizing, to make decisions, recommendations and predictions.

Program-Specific Courses	PLO #1: Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.	PLO #2: Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.	PLO #3: Students will communicate effectively the results of scientific investigations.
BIOL 1411	I, D	I, D	I, D
BIOL 1413	I, D	I, D	I, D
BIOL 2420	I, D	I, D	I, D
BIOL 2421	I, D	I, D	I, D
BIOL 1406	I, D	I, D	I, D
BIOL 1407	M	M	M
BIOL 2401	I, D	I, D	I, D
BIOL 2402	I, D	M	M

I = Introduced; D = Developed & Practiced with Feedback; M = Demonstrated at Mastery

Goal #2: To graduate students who can demonstrate their knowledge of the steps involved in scientific method. Outcomes including communicating results of scientific investigations, analyzing data and formulating conclusions.

Program-Specific Courses	PLO #1: Demonstrate the steps involved in the scientific method.	PLO #2: Communicate results of scientific investigations, analyze data and formulate conclusions.	PLO #3: Explain the methods of inquiry used by scientists.
BIOL 1411	I, D	I, D	I, D
BIOL 1413	I, D	I, D	I, D
BIOL 2420	D	D	D
BIOL 2421	M	M	M
BIOL 1406	I, D	I, D	I, D
BIOL 1407	M	M	M
BIOL 2401	I, D	I, D	I
BIOL 2402	D	D	I

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Goal #3: Graduates will have the skills to analyze and assimilate course materials in order to formulate objective conclusions. Objective is for students to demonstrate mastery of 70% of our objectives outlined in the ACGM. Outcomes including the ability to analyze and assimilate content to make connections between evidence and conclusions.

Program-Specific Courses	PLO #1: Demonstrate understanding of core biological concepts.	PLO #2: Communicate results of scientific investigations, analyze data and formulate conclusions.	PLO #3: Use critical thinking and scientific problem-solving to make informed decisions within their professional careers.
BIOL 1411	I, D	I, D	I, D
BIOL 1413	I, D	I, D	I, D
BIOL 2420	I, D	I, D	I, D
BIOL 2421	D	D	D
BIOL 1406	I, D	I, D	I, D
BIOL 1407	D, M	D, M	D, M
BIOL 2401	I, D	I, D	I, D
BIOL 2402	D	M	M

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