

Amarillo College Curriculum Map Template

Division: STEM

Degree/Academic Program(s): Biotechnology A.S.

Person Responsible for Division: Edie Carter, Dean

Component Director/Chair: Richard Hobbs

Submission Date: February 2, 2021

Purpose Statement: The mission of the Biotechnology 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. To provide an opportunity to relate acquired knowledge to other related fields of studies that lead to transfer level courses, advanced degrees and careers.

Program- Specific Courses	Course Name	PLO #1: Use critical thinking and scientific problem-solving to make informed decisions in laboratory.	PLO #2: Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
BIOL 1414	Biotechnology I	ID	ID
BIOL 1415	Biotechnology II	D	D

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 communicate results of scientific investigations, analyze data and formulate conclusions.

Program-Specific Courses	Course Name	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 1414	Biotechnology I	ID	ID	ID
BIOL 1415	Biotechnology II	M	M	M

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