

Amarillo College Curriculum Map Template

Division:	STEM
Degree/Academic Program(s):	Chemistry (CHEM.AS)
Dean:	Edie Carter
Chair/Director/Coordinator:	Richard Hobbs
Submission Date:	Fall 2017
Purpose Statement:	The Chemistry Department is dedicated to providing students with a sound foundation in chemistry in order to successfully complete a bachelor's degree at a transfer university or college.

Goal #1: To graduate students who will be knowledgeable in the basics of chemistry and prepared for further study at a university.

Program-Specific Courses	PLO #1: Students will be able to correctly use chemical names and formulas.	PLO #2: Students will write and understand various types of chemical reactions.	PLO #3: Students will be able to read and understand the chemical literature.	PLO #4: Students will be able to name organic molecules according to IUPAC system	PLO #5: Students will be able to identify functional group(s) present in organic molecules
CHEM 1411	I, D	I, D			
CHEM 1412	D	D	I		
CHEM 2423	D	D	D	I	I
CHEM 2425	D	D	D	D	D

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

Goal #2: To graduate students with the skills to work successfully in the laboratory.

Program-Specific Courses	PLO #1: Students will demonstrate knowledge of laboratory safety by conducting experiments using proper lab safety procedures	PLO #2: Students will perform experiments, analyze results and relate correct observations.	PLO #3: Student will be able to relate observations and measurements to theoretical principles
CHEM 1411	I	I	I
CHEM 1412	D	D	D
CHEM 2423	D	D	D
CHEM 2425	D	D	D

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Goal #3: To graduate students who will be knowledgeable in the basics of organic chemistry and prepared for further study at a university.

Program-Specific Courses	PLO #1: Students will be able to name organic molecules according to IUPAC system	PLO #2: Students will be able to identify functional group(s) present in organic molecules	PLO #3: The students will be able to relate the structure of organic molecules with their reactivity	PLO #4: The students will be able to write reaction mechanisms for simple organic molecules
CHEM 2423	I	I	I	I
CHEM 2425	D	D	D	D

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