

## Amarillo College Curriculum Map Template

<b>Division:</b>	STEM
<b>Degree/Academic Program(s):</b>	Physics (PHYS.AS)
<b>Dean:</b>	Edie Carter
<b>Chair/Director/Coordinator:</b>	Richard Hobbs
<b>Submission Date:</b>	03/2022
<b>Purpose Statement:</b>	The Physics Department is dedicated to providing students with a sound foundation in physics in order to successfully complete a bachelor's degree at a transfer university or college.

**Goal 1:** To graduate students who demonstrate content knowledge and skills from several foundational areas of physics.

Program-Specific Courses	<b>PLO #1:</b> Students will solve problems by identifying and applying core concepts of Mechanics	<b>PLO #2:</b> Students will solve problems by identifying and applying core concepts of mechanical and electromagnetic oscillations and wave behavior	<b>PLO #3:</b> Students will solve problems by identifying and applying core concepts of thermodynamics	<b>PLO #4:</b> Students will solve problems by identifying and applying core concepts of electric and magnetic forces and phenomena	<b>PLO #5:</b> Students will solve problems by identifying and applying core concepts of electric circuits	<b>PLO #6:</b> Students will learn to apply appropriate mathematical methods in the context of the course topics.
PHYS 2425	D	I, D	I			I, D
PHYS 2426		I, D		I	I	I, 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	<b>PLO #1:</b> Students will perform experiments	<b>PLO #2:</b> Students will analyze the results of experiments	<b>PLO #3:</b> Students will develop laboratory reports based on experiments and analysis	<b>PLO #4:</b> Students will demonstrate that they can effectively engage in teamwork
PHYS 2425	I	I	I	I
PHYS 2426	D	D	D	D

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