

Amarillo College Curriculum Map Template

Division:	STEM
Degree/Academic Program(s):	Data Science (DASC.AS)
Dean:	Edie Carter
Chair/Director/Coordinator:	Mark Usnick/Penelope Davies
Submission Date:	04/2022

Goal 1: To graduate students who possess and use problem-solving and critical thinking skills as applied to computer programming

Program-Specific Courses	PSLO #1: Students will solve problems and implement their solutions in an appropriate programming language and computational environment.	PSLO #2: Students will demonstrate the ability to test computer programs written by themselves, or others.	PSLO #3: Students will demonstrate the ability to debug computer programs written by themselves, or others
COSC 1336 Programming Fundamentals 1	I	I	I
COSC 1337 Programming Fundamentals 2	D	D	D
COSC 2336 Programming Fundamentals 3	M	M	M

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

Goal 2: To graduate students who possess a working knowledge of the theoretical foundations of computer science.

Program-Specific Courses	PSLO #1: Students will use, implement and compare fundamental abstract data types.	PSLO #2: Students will analyze the complexity and efficiency of algorithmic solutions.
COSC 1336 Programming Fundamentals 1	I	
COSC 1337 Programming Fundamentals 2	D	I
COSC 2336 Programming Fundamentals 3	M	D

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Goal 3: To graduate students who will be prepared for success at a transfer university and in careers requiring computer programming skills.

Program-Specific Courses	PSLO #1: Students will read and comprehend a computer program written in a common computer programming language.	PSLO #2: Students will learn a new computer programming language quickly by leveraging their existing computer programming skills.
COSC 1336 Programming Fundamentals 1	I	
COSC 1337 Programming Fundamentals 2	D	I
COSC 2336 Programming Fundamentals 3	M	D

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