

Computer Information Systems A.A.S. (2 years)

A curriculum map is a graphical illustration of the relationship between a program's courses and the program's student learning outcomes. Curriculum maps at Aims Community College identify the program's mission statement (red), program-learning goals (dark gray), and expected program student learning outcomes (light gray). In addition, Aims' curriculum maps indicate where learning outcomes are introduced, reinforced, and mastered.

The mission of the Computer Information Systems (CIS) Department is to be dynamic and innovative in its learning-centered curriculum which promotes effective teaching, life-long learning, the advancement of knowledge, problem-solving, and a commitment to the community. The CIS Department provides opportunities both to gain necessary skills for employment and to upgrade abilities for career advancement by embracing state-of-the-art technology. Program graduates are prepared to live and contribute effectively in a rapidly changing, technologically advanced society.

	Goal #1: Content – Demonstrate understanding of course content through projects, assignments and quizzes.							Goal #2: Communication Skills – Demonstrate effective communication through written work, presentations, and projects.			Goal #3: Scripting – Combine system-appropriate commands and options logically in a script to automate tasks.	Goal #4: Programming – Create programs that perform the assigned task(s) using the language and platform appropriate to the course.	Goal #5: Problem Solving – Analyze problems in order to create functioning code or to troubleshoot issues.	Goal #6: Internal Relationship Building – Collaborate effectively within a team to produce CIS products.
	Outcome #1: The student should demonstrate a working knowledge of directory structure and file management	Outcome #2: The student should possess an understanding of the foundations and topology of a network	Outcome #3: The student should demonstrate the ability to be able to apply industry standard applications	Outcome #4: The student should demonstrate an understanding of databases	Outcome #5: The student should demonstrate an understanding of the web and web based applications	Outcome #6: The student should possess an understanding of how the network communicates	Outcome #7: The student should demonstrate proficiency in using one or more popular operating systems	Outcome #8: The student should demonstrate a fundamental understanding of network engineering and security	Outcome #9: The student should demonstrate an understanding of software engineering concepts	Outcome #10: The student should demonstrate a fundamental understanding of network fundamentals and components	Outcome #11: The student should utilize the foundational knowledge of logic and programming to create programs and programming applications in a variety of modern platforms	Outcome #11: The student should utilize the foundational knowledge of logic and programming to create programs and programming applications in a variety of modern platforms	Outcome #12: The student should demonstrate the ability to analyze and solve a problem utilizing logic	Outcome #13: The student should demonstrate the ability to use problem solving to debug a script or program
GE	GENERAL EDUCATION													
ENG 131/121														
COM 115/125														
MAT 121														
History														
Elective #1														
CORE	CORE													
CIS 118	I		I,M	I			I							
CIS 145				I										
CNG 120	M		R				R,M						I	
CNG 124		I,R	R				I	I	I					
CSC 119 OR 236								I			I,M	I	I	
CSC 160								R				R	R	R
CWB 110	R	R			I									
DATABASE	DATABASE ADMINISTRATION													
CIS 240				R										
CIS 255				M										
CIS 243				R										
MOBILE	MOBILE APPLICATIONS													
CSC 160								R				R	R	R
CSC 161								M				M	M	M
CSC 246				R			R	M				M	M	M
C#	C# PROGRAMMING													
CSC 236								I				I	R	R
CSC 237				R			R	M				M	M	M
CYBER	CYBER SECURITY SPECIALIST													
CNG 132	R	R	R											
CNG 136	I	I				I		I		I			R	
CNG 243	R	R	I		I	R	I	R		I			R	
CNG 251	R	R	R			R	R	R		I	R		M	
CNG 253		M			R	M	R	M			M		M	
CNG 256	M	M	R	R	R	M	M	M	R				M	
CNG 258	M	M		R	R	M	M	M	R				M	
CNG 280	R,M	R,M	R			R,M	R,M	R,M					R	M
NETWORK	NETWORK ANALYST													
CNG 125		R,M				R		R		R			R	
CNG 109	M	M	R			M	M	R		M			R	I,R
CNG 132	R		R			R		M		R				
CIS 267		I				I								
UNIX	UNIX													
CIS 220	R,M						M				I,M		R	
CNG 109	M	M	R			M	M	R					R	I,R
CNG 132	R		R			R		M		R				
WEB	WEB DEVELOPMENT													
CWB 204	R				R									
CWB 205	R				R						I,M		I,M	
CWB 206	R			I,R	M						I,M		I,M	I,R
CWB 209	R			I,R	R		R							

The curriculum map will provide a more nuanced picture if you use a scale such as the one below to identify the level of students' interaction with the outcomes in program courses:
Introduced (I) – The skills associated with the program outcome are presented in the course. You may find this will happen in the lower level courses in your program.
Reinforced (R) – The skills associated with the program outcome are being worked on at a level above the introductory stage and/or the skills are being developed at a deeper level.
Mastered (M) – Students should have developed a sufficient level of competency in the skills associated with the program outcome to have mastered them.

Elective # 1
 BUS 216 - Legal Environment of Business Credits: 3
 ECO 201 - Prin of Macroeconomics [SS1] Credits: 3
 ECO 202 - Prin of Microeconomics [SS1] Credits: 3
 PSY 101 - General Psychology I [SS3] Credits: 3

Certifications
 Database Administration Certificate
 Network Analyst Certificate
 Object Oriented Programming: Mobile Applications Certificate
 UNIX Certificate
 Visual Basic Programming Certificate
 Web Page Development Certificate

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