

COMPUTER PROGRAMMING, COMPUTER INFORMATION TECHNOLOGY, AAS

Program Code: Computer Programming-AAS

Program Description

The AAS, Computer Information Technology, Computer Programming provides students with entry level programming skills. Computer programming professionals must also have a broad knowledge of computer systems and technologies, as well as strong problem solving and analysis skills. They must be able to think logically and have strong verbal and written communication skills.

Recommended Course Schedule

1st semester		Units
CIT 114	IT Essentials	4
CS 105	Introduction to Computing	3
English 3		3
CIT 130 or CIT 134	Beginning Java or Beginning C# Programming	3
	Semester Total	13
2nd semester		
CIT 112	Network +	3
CIT 151	Beginning Web Development	3
Mathematics		3
Fine Arts/Hun	nanities/Social Science/Diversity ³	3
CIT 230	Advanced Java	3
or CIT 234	or Advanced C# Programming	
	Semester Total	15
3rd semester		
or DATA 210	Database Concepts and SQL or Introduction to SQL for Data Science	3
Communication	ons ³	3
Science ²		3
CIT 236 or CIT 130 or CIT 134 or CIT 237	Common Programming Patterns or Beginning Java or Beginning C# Programming or Test-Driven Development	3
Electives		4
	Semester Total	16
4th semester		
CIT 235 or CIT 230 or CIT 234 or CIT 236 or CIT 237	Fluent Entity Framework in C# or Advanced Java or Advanced C# Programming or Common Programming Patterns or Test-Driven Development	3
CIT 263	Project Management	3
Electives		4

Human Relations ³	3
U.S. and Nevada Constitutions ²	3
Semester Total	16
Total Units	60

See approved General Education list for the AAS Degree. (https://catalog.tmcc.edu/degrees-certificates/general-education/aas/)

Program Requirements

AAS degrees are generally non-transfer degrees designed for students to enter the workforce.

To earn an AAS degree, students must:

- Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
- 2. Complete a minimum of 15 units within the college.
- Satisfy General Education requirements for the AAS (https:// catalog.tmcc.edu/degrees-certificates/general-education/aas/).
- 4. Have no financial or library obligation to the college.

Title

Code	Title	Units
GENERAL EDUCATION	N REQUIREMENTS	
Communications		3
Highly Recommende	d:	
BUS 107	Business Speech Communications	
or COM 113	Fundamentals of Speech Communications	
or COM 215	Introduction to Group Communication	
English		3
Highly Recommende		
ENG 101	Composition I	
or ENG 113	Composition I for International and Multilingu Students	al
or ENG 100	Composition Enhanced	
or ENG 102	Composition II	
or ENG 114	Composition II For International and Multiling Students	ual
or ENG 107	Technical Communications I	
Fine Arts/Humanities/	Social Science	3
Recommended:		
Course that counts fo	or Diversity	
Human Relations		3
Highly Recommen	ded:	
MGT 212	Leadership and Human Relations	
Mathematics		3
Recommended:		
MATH 124	College Algebra (or higher)	
Science		3
Additional College Req	uirements	
Diversity		(3)
U.S. and Nevada Cons	titutions	3
Degree Requirements	•	
CIT 112	Network +	3

Unite

³ See program recommendations or requirements.



CIT 114	IT Essentials	4
CIT 151	Beginning Web Development	3
CIT 180	Database Concepts and SQL	3
or DATA 210	Introduction to SQL for Data Science	
CIT 263	Project Management	3
CS 105	Introduction to Computing	3
	nplete the beginning and advanced of one uage for a total of 6 units:	6
JAVA		
CIT 130	Beginning Java	
CIT 230	Advanced Java	
C#		
CIT 134	Beginning C# Programming	
CIT 234	Advanced C# Programming	
Select 6 units from the following courses or programing language		6
CIT 130	Beginning Java	
CIT 230	Advanced Java	
CIT 134	Beginning C# Programming	
CIT 234	Advanced C# Programming	
CIT 235	Fluent Entity Framework in C#	
CIT 236	Common Programming Patterns	
CIT 237	Test-Driven Development	
Electives		8
CSCO 120	CCNA Internetworking Fundamentals	
CS 135	Computer Science I	
CIT, CS, CSCO or	r DATA	
MATH 127	Pre-Calculus II	
MATH 126	Pre-Calculus I	
DATA 101	Introduction to Data Science	
Total Units		60

Program Outcomes

Students completing the degree will:

PSL01: Have the technical proficiency required to design and program a solution to a stated problem.

PSLO2: Demonstrate an understanding of dynamic data structures and generic methods.

PSL03: Have the ability to communicate and work effectively with members of a team and members of external groups.