

CYBERSECURITY, COMPUTER INFORMATION TECHNOLOGY, AAS

Program Code: Cyber Security-AAS

Program Description

The Associate of Applied Science, Computer Information Technology, Cybersecurity will prepare the student to apply security measures in a network setting.

Recommended Course Schedule

1st semester		Units
CIT 114	IT Essentials	4
CIT 173	Introduction to Linux	3
Elective ³		3
English/Communications ²		3
Mathematics ³		3
Semester Total		16
2nd semester		Units
CIT 112	Network +	3
CSCO 120	CCNA Internetworking Fundamentals	4
ENG 102	Composition II (English/Communications)	3
or ENG 114	or Composition II For International and Multilingual Students	
Human Relations		3
Elective		3
Semester Total		16
3rd semester		Units
CIT 174	Linux System Administration	3
CIT 274	Ethical Hacking	3
CSCO 230	Fundamentals of Network Security	4
Diversity ³		3
Fine Arts/Humanities/Social Science		3
Semester Total		16
4th semester		Units
CS 151	Introduction to Cybersecurity	3
CIT 263	Project Management	3
Elective ³		3
Science ²		3
Semester Total		12
Total Units		60

² See approved General Education List for the AAS Degree (<https://catalog.tmcc.edu/degrees-certificates/general-education/aas/>)

³ See program recommendations or requirements.

Program Requirements

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

To earn an AAS degree, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 units within the college.
3. 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.

Code	Title	Units
General Education Requirements		
<i>English/Communications</i>		6
Recommended: BUS 107, ENG 101, ENG 107, ENG 108, COM 113 or COM 215 ¹		
Recommend:		
ENG 102	Composition II	
or ENG 114	Composition II For International and Multilingual Students	
<i>Fine Art/Humanities/Social Science</i> ¹		3
<i>Mathematics</i>		3
Recommended:		
MATH 126	Pre-Calculus I (or higher)	
<i>Science</i> ¹		3
Additional College Requirements		
<i>Diversity</i> ¹		3
<i>Human Relations</i> ¹		3
<i>U.S. and Nevada Constitutions</i> ¹		[3]
Choose a course that satisfies Fine Arts/Humanities/Social Science.		
Degree Requirements		
CIT 112	Network +	3
CIT 114	IT Essentials	4
CS 151	Introduction to Cybersecurity	3
CIT 173	Introduction to Linux	3
CIT 263	Project Management	3
Emphasis Requirements		
CSCO 120	CCNA Internetworking Fundamentals	4
CIT 174	Linux System Administration	3
CSCO 230	Fundamentals of Network Security	4
CIT 274	Ethical Hacking	3
Electives		
Choose 9 units from the following:		9
CIT 130	Beginning Java	
CIT 134	Beginning C# Programming	
CIT 180	Database Concepts and SQL	
or DATA 210	Introduction to SQL for Data Science	
CIT 216	Server+	
GRC 175	Web Design I	
Total Units		60

¹ Course may also count toward additional degree requirements. Please consult with Academic Advisement.

Program Outcomes

Students completing the degree will:

PSLO1: Demonstrate the technical proficiency required to recognize short-comings in security.

PSLO2: Illustrate the technical proficiency required to configure and secure a network with the industry recognized Cybersecurity measure.

PSLO3: Communicate and work effectively with other team members in a scenario-type project environment to complete the required tasks which will parallel real-world requirements.