

# COMPUTER INFORMATION TECHNOLOGY, AAS

## Cybersecurity

The Cybersecurity will prepare student to apply security measures in a network setting.

### Outcomes

Students completing this emphasis will:

- Demonstrate the technical proficiency required to recognize shortcomings in security.
- Illustrate the technical proficiency required to configure and secure a network with the industry recognized Cybersecurity measure.
- 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.

AAS degrees are generally non-transfer degrees that are 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 (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>).
4. Have no financial or library obligation to the college.

Code	Title	Units
<b>General Education Requirements</b>		
<i>English/Communications</i>		6
Recommended: BUS 107, ENG 101, ENG 107, ENG 108, COM 113 or COM 215 <sup>1</sup>		
Required:		
ENG 102	Composition II	
	or ENG 114 Composition II For International Students	
<i>Fine Art/Humanities/Social Science</i> <sup>1</sup>		3
<i>Mathematics</i>		3
Recommended:		
MATH 126	Pre-Calculus I ( or higher)	
<i>Science</i> <sup>1</sup>		3
<b>Additional College Requirements</b>		
<i>Diversity</i> <sup>1</sup>		3
<i>Human Relations</i> <sup>1</sup>		3
<i>U.S. and Nevada Constitutions</i> <sup>1</sup>		[3]
Required: Choose one or two courses from the following:		
PSC 101	Introduction to American Politics	
	or CH 203 American Experiences and Constitutional Change	
HIST 101 & HIST 102	US History to 1877 and U. S. History since 1877	
HIST 101 & HIST 217	US History to 1877 and Nevada History	

HIST 101 & PSC 100	US History to 1877 and Nevada Constitution	
HIST 101 & PSC 208	US History to 1877 and Survey of State and Local Government	
<b>Degree Requirements</b>		
CIT 112	Network +	3
CIT 114	IT Essentials	4
CIT 128	Introduction to Software Development	4
CIT 173	Introduction to Linux	3
CS 151	Introduction to Cybersecurity	3
<b>Emphasis Requirements</b>		
CIT 174	Linux System Administration	3
CSCO 120	CCNA Internetworking Fundamentals	4
CSCO 121	CCNA Routing and Switching Essentials	4
CSCO 230	Fundamentals of Network Security	4
<b>Electives</b>		
Choose 7 units from the following:		7
CIT 130	Beginning Java	
CIT 134	Beginning C# Programming	
CIT 251	Advanced Web Development	
CIT 152	Web Script Language Programming	
CIT 180	Database Concepts and SQL	
CIT 211	MCITP/MCTS Windows Workstation OS	
CIT 215	MCITP Active Directory	
CIT 216	Server+	
Total Units		60

<sup>1</sup> Course may also count toward additional degree requirements. Please consult with Academic Advisement.

	Units	
<b>1st semester</b>		
CIT 114	IT Essentials	4
CIT 128	Introduction to Software Development	4
Emphasis <sup>3</sup>		3
English/Communications <sup>2</sup>		3
Mathematics <sup>3</sup>		3
Semester Total		17
<b>2nd semester</b>		
CIT 112	Network +	3
CIT 173	Introduction to Linux	3
CSCO 120	CCNA Internetworking Fundamentals	4
ENG 102	Composition II (English/Communications) or ENG 114 or Composition II For International Students	3
Human Relations		3
Semester Total		16
<b>3rd semester</b>		
CSCO 121	CCNA Routing and Switching Essentials	4
CIT 174	Linux System Administration	3
Diversity <sup>3</sup>		3
Elective <sup>3</sup>		3
Fine Arts/Humanities/Social Science		3
Semester Total		16

**4th semester**

CS 151	Introduction to Cybersecurity	3
Elective <sup>3</sup>		2
Science <sup>2</sup>		3
U.S. and Nevada Constitutions <sup>3</sup>		3
Semester Total		11
Total Units		60

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

<sup>3</sup> See program recommendations or requirements.