

ASSOCIATE OF APPLIED SCIENCE - COMPUTER INFORMATION TECHNOLOGY - CYBERSECURITY EMPHASIS

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

Emphasis 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.

General Education Requirements

English/Communications 6

Recommended: BUS 107, ENG 101, ENG 107, ENG 108, COM 113 or COM 215 ¹

Required:

ENG 102 Composition II
or ENG 114 Composition II For International Students

Fine Art/Humanities/Social Science ¹ 3

Mathematics 3

Recommended:

MATH 126 Pre-Calculus I (or higher)

Science ¹ 3

Additional College Requirements

Diversity ¹ 3

Human Relations ¹ 3

U.S. and Nevada Constitutions ¹ [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 US History to 1877
& HIST 102 and U. S. History since 1877

HIST 101 US History to 1877
& HIST 217 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	
Degree Requirements		
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
Emphasis Requirements		
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
Electives		
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

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

Course	Title	Units
1st semester		
CIT 114	IT Essentials	4
CIT 128	Introduction to Software Development	4
Emphasis ³		3
English/Communications ²		3
Mathematics ²		3
Semester Total		17
2nd semester		
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
3rd semester		
CSCO 121	CCNA Routing and Switching Essentials	4
CIT 174	Linux System Administration	3
Diversity ³		3
Elective ³		3
Fine Arts/Humanities/Social Science		3
Semester Total		16

4th semester

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

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

³ See program recommendations or requirements.