



## CAREER & TECHNICAL EDUCATION (CTE)

# Cybersecurity & Data Privacy (AAS)

The AAS in Cybersecurity and Data Privacy prepares students for entry-level positions in cyber security and data privacy. Graduates will be prepared to become leaders in cybersecurity, with a solid understanding of security technology and privacy laws, preparing them to make knowledgeable and responsible decisions. The program also offers students a transfer option to four-year institutions.

## Upon completion of the program, students will be able to:

- Identify risks, assess threats, and develop effective countermeasures aimed at protecting organizational assets on-premise and in the cloud.
- Prevent common security threats, including implementing firewall and VPN technologies and perimeter defenses, conducting vulnerability and penetration testing, and scanning networked systems.
- Discuss relevant laws, regulations, and frameworks as they apply to data privacy and cybersecurity operations.
- Demonstrate the legal and technical aspects of a cybercrime investigation and the application of computer forensic tools.

According to the Cyber Crime Magazine, the top 10 percent of cybersecurity analysts make over \$117,000 per year, while the median annual salary is \$76,000. New data indicates that of all IT jobs, cybersecurity engineers – with an average annual salary of \$140,000 – were the highest paying and most recruited heading into 2019.

## Start Your Career Today!

### CONTACT INFORMATION

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**Turtle Mountain**  
Community College

701.477.7862 | [www.tm.edu](http://www.tm.edu)

TMCC is accredited by the Higher Learning Commission (HLC)  
of the North Central Association of Colleges and Schools (NCA).

*In just two short years, students can complete an Associate of Applied Science degree at Turtle Mountain Community College (TMCC) and begin pursuing their chosen career. A college education is a proven way to enrich your life – culturally, socially, intellectually and financially.*



## Required Courses (67 Credits)

### Semester 1

COURSE TITLE	CREDITS
<b>CIS 141</b> Introduction to Cybersecurity	<b>3</b>
<b>CIS 162</b> Operating Systems	<b>3</b>
<b>CIS 164</b> Network Fundamentals I	<b>3</b>
<b>CIS 215</b> Microsoft Windows Server	<b>3</b>
<b>CIS 219</b> Hardware Repair & Maintenance	<b>4</b>
<b>Total Semester Credits</b>	<b>16</b>

### Semester 2

COURSE TITLE	CREDITS
<b>BOTE 177</b> Job Readiness	<b>1</b>
<b>CIS 165</b> Network Fundamentals II	<b>3</b>
<b>CIS 168</b> Firewalls & Network Security	<b>3</b>
<b>CIS 220</b> Linux Administrator I	<b>3</b>
<b>CIS 241</b> Introduction to Digital Forensics	<b>3</b>
<b>CSCI 101</b> Introduction to Computers	<b>3</b>
<b>Total Semester Credits</b>	<b>16</b>

### Semester 3

COURSE TITLE	CREDITS
<b>CIS 223</b> Linux Administrator II	<b>3</b>
<b>CIS 243</b> Incident Response & Disaster Recovery	<b>3</b>
<b>CIS 270</b> Cybersecurity Infrastructure Configuration	<b>3</b>
<b>General Education Courses (9 CREDITS)</b>	<b>9</b>
<b>Total Semester Credits</b>	<b>18</b>

### Semester 4

COURSE TITLE	CREDITS
<b>CIS 255</b> Cloud Foundations	<b>3</b>
<b>CIS 264</b> Ethical Hacking & Network Defense	<b>3</b>
<b>CIS 261</b> Cybersecurity Law & Ethics	<b>3</b>
<b>CIS 271</b> Cybersecurity Prevention & Countermeasures	<b>3</b>
<b>CSCI 162</b> Internship	<b>2</b>
<b>General Education Courses (3 CREDITS)</b>	<b>3</b>
<b>Total Semester Credits</b>	<b>17</b>

**Total Required Credits**

**67**