CIS CYBERSECURITY, ASSOCIATE OF APPLIED SCIENCE

Cybersecurity has emerged as a unique profession specializing in the technologies, processes and practices designed to protect networks, computers, programs and data from attack, damage or unauthorized access.

The cybersecurity profession combines knowledge and skills from disciplines such as computer science, information technology, criminal justice, psychology, and business, along with specialized topics unique to cybersecurity.

Earn a Cybersecurity Associate of Applied Science degree!

- Specialize in cybersecurity while learning about computing.
- Increase your understanding of robust cyber defense technology.
- Utilize computer technology to address information system needs with security in mind.
- Analyze common security vulnerabilities and apply appropriate security controls.

GRADUATION REQUIREMENTS

Students must complete a minimum of 95 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded. All courses must be completed with a grade of 'C' or better.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

PROGRAM STUDENT LEARNING OUTCOMES

- Identify cybersecurity practices to mitigate threats that originate inside and outside of an organization.
- Analyze common security vulnerabilities and apply appropriate security controls.
- Demonstrate ability to plan and implement both wired and wireless networks sufficient for home or small business use.
- Research, interpret, and communicate technical information in written, graphic, diagrammatic, electronic, and oral forms.
- Design an appropriate risk analysis for a business in a given environment.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

PROGRAM GUIDE

Course	Title	Credits
First Year		
Fall		
CIS185	Introduction To Cyber Security	3
CJ100	Intro to Criminal Justice	4
CS160	Computer Science Orientation	4
CIS151	Network Essentials	4
PE231	Wellness for Life [3]	3
	Credits	**18**
Winter		
CIS140U	Intro to Operating Systems: Unix	4
CJ101	Intro to Criminology	4
CIS152	Network Routing & Switching Config	4
CS195	Web Development I	3
	Credits	**15**
Spring		
MTH105	Math in Society [6]	4
BA277 or PHL102	Business Ethics or Ethics	3
CS133WS	Computer Language I: Web Scripting	4
CIS153	Enterprise Networking/Automation	4
	Credits	**15**
Second Year		
Fall		
MTH243	Intro to Probability and Statistics	4
CIS125DB	Database Applications	3
BA285	Human Relations in Organizations [7]	3
CIS285	Cyber Security Essentials	4
	Credits	**14**
Winter		
SP111	Fundamentals of Public Speaking [5]	3
PSY202	General Psychology [1]	3
CS244	Systems Analysis	3
CIS286	Cyber Security Operations I	4
WR115	Fundamentals of Report Writing [2]	4
	Credits	**17**
Spring		
CIS287	Cyber Security Operations II	4
CIS280	CWE: Computer Information Systems	4
CIS297	IT Professional Capstone	4
Specific Elective [4]		4
	Credits	**16**
	Total Credits	**95**

1. PSY100, PSY201, PSY203, PSY216 may be substituted for PSY202.
2. A higher writing may be substituted excluding WR241, WR242, WR243, and WR250.
3. PE231, HE250 or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
4. Specific Electives: Any PSY, BA, CJ, CIS/CS course not required for degree; WR227, MTH95 or higher not required for degree, ART225.
5. SP100, SP111, SP218, SP219 will satisfy this requirement.
6. MTH105 or higher, excluding MTH211, will satisfy this requirement.
7. BA110, BA120, BA285, PSY100, PSY201, PSY202, PSY203 will satisfy this requirement.

* All honors may substitute for their equivalent requirements.