



IT-Cybersecurity Specialist

ASSOCIATE OF APPLIED SCIENCE



Effective
2021-22

The course sequence is the recommended path to completion upon graduation from eCampus Academy. All courses should be taken in the order shown to help you stay on track and graduate according to your academic plan as it transfers to Gateway Technical College or UW-Whitewater.

F = Fall, S = Spring, SU = Summer

Term	Course #	Cr.	Course Title	Requisites (prereq-before/coreq-with)	Online
1	890-155	1	☑ Gateway to Success (G2S)		F
1	*150-182	3	🎓 IoT: Connecting Devices		F
1	*150-194	3	🎓 Network Security		F
1	*150-114	3	🎓 Network Concepts-CCNA 1	Coreq: 804-135	F
1	809-198	3	Psychology, Introduction to	Prereq: 838-105 OR 831-107	F
1	804-135	3	Quantitative Reasoning	Prereq: 834-109	F
2	*150-106	3	Intrusion Detection Systems	Prereq: 150-194	S
2	*150-109	3	Network Admin MS I 2016	Prereq: 150-114; Coreq: 801-136	S
2	*150-145	3	IT Scripting		S
2	801-136	3	English Composition 1	Prereq: 831-103 OR 831-107	S
3	*150-115	3	IoT: Securing Devices	Prereq: 150-182; 804-135	SU
3	*150-146	4	🎓 Cybersecurity	Prereq: 150-194	SU
3	809-196	3	Sociology, Introduction to	Prereq: 838-105 OR 831-107	SU
3	XXX-XXX	3	Elective Course	Take 3 credits at the associate degree level. Suggested electives listed on back.	SU
4	*151-120	4	Cloud Data Security	Prereq: 150-146	F
4	*151-130	3	Cisco CyberOps (SOC)	Prereq: 150-146	F
4	*151-131	3	Managing and Configuring Firewalls	Prereq: 150-106; 150-115	F
4	801-197	3	Technical Reporting	Prereq: 801-136	F
5	*150-113	4	Network Administration—Linux	Prereq: 150-109	S
5	*150-143	4	Computer Security/Pen Test	Prereq: 151-130	S
5	151-132	3	SOC: Monitor/Secure the Infrastructure	Prereq: 151-130	S

Minimum Program Total Credits Required: 65

- ☑ = Mastery of this course will put students on a path to achieve successful degree completion, on-time graduation and enrich the college experience. Students are required to take this course in their first semester of enrollment. Please see an advisor for details.
- 🎓 = Milestone Course. Faculty have identified this course as providing a strong foundation for success throughout the program.
- (*) indicates students must achieve a combined average of 2.0 ("C") or above for these major courses to meet graduation requirements.

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Cybersecurity Specialists monitor an organization's computer network, maintain system security and upgrade security measures to prevent computer security incidents and cyberattacks. Learn to protect data confidentiality, integrity and availability while learning ways to implement security mechanisms. Emphasis is placed on vigilant security awareness, identifying network threats and deploying appropriate incident responses. Through hands-on lab work, learners will build practical experience with topics such as penetration testing, log analysis, the implementation of firewalls, wireless security and incident response, as well as defense and counter-measures. Learners will gain an understanding of legal and ethical issues associated with information security. Learners will analyze a variety of network operating systems, firewalls, virtual private networks (VPN), packet filters, and intrusion detection systems (IDS) to maximize information security in the network.

Program Learning Outcomes

Graduates will be able to:

1. Implement secure infrastructures.
2. Conduct security testing.
3. Analyze security data.
4. Mitigate risk.
5. Develop security documentation.

Essential Career Competencies

Gateway's six essential career competencies are the general attitudes and skills promoted and assessed by all programs. All Gateway graduates will develop skills in:

- Communication Competence
- Professionalism and Career Management
- Cultural Competence
- Critical Thinking and Problem Solving
- Teamwork and Collaboration
- Technology Competence

Suggested Electives:

150-183 VCP Virtualization	150-131 Network Specialist Internship
150-124 CCNA2	107-177 IT-Project Management

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