



Part-Time Pathway to Success

School of Manufacturing, Engineering, and Information Technology

IT – Cybersecurity Specialist (10-151-2)

Associate of Applied Science

Effective 2020/2021

The course sequence shown on this sheet is the recommended path to completion. Courses will be scheduled in the terms indicated here. All courses should be taken in the order shown to help you stay on track and graduate according to your academic plan.

E-D = Elkhorn/days, R-E = Racine/evenings, O = Online, F=Fall, S=Spring, SU=Summer

Term	Course #	Cr.	Course Title	Requisites (prereq- before/ coreq-with)	E-D	R-E	O
1	890-155	1	📍 Gateway to Success (G2S)		F	F	F
1	*150-194	3	🎓 Network Security ³		F	F	F
1	*150-114	3	🎓 Network Concepts–CCNA 1 ³	Coreq: 804-135	F	F	F
1	804-135	3	Quantitative Reasoning ¹	Prereq: 834-109	F	F	F
2	*150-146	4	🎓 Cybersecurity	Prereq: 150-194	S	S	S
2	801-136	3	English Composition 11.3	Prereq: 831-103 OR 831-107	S	S	S
2	*150-106	3	Intrusion Detection Systems	Prereq: 150-194	S	S	S
3	809-198	3	Psychology, Introduction to ^{1,2,3}	Prereq: 838-105 OR 831-107	SU	SU	SU
3	*150-182	3	🎓 IoT: Connecting Devices		SU	SU	SU
3	*150-109	3	Network Admin MS I 2016	Prereq: 150-114; Coreq: 801-136	SU	SU	SU
4	*150-145	3	IT Scripting		F	F	F
4	*151-120	4	Cloud Data Security	Prereq: 150-146	F	F	F
4	*150-115	3	IoT: Securing Devices	Prereq: 150-182; 804-135	F	F	F
5	*151-131	3	Managing and Configuring Firewalls	Prereq: 150-106; 150-115	S	S	S
5	*151-130	3	Cisco CyberOps (SOC)	Prereq: 150-146	S	S	S
5	*150-113	4	Network Administration – Linux ³	Prereq: 150-109	S	S	S
6	XXX-XXX	3	Elective Course	Take 3 credits at the associate degree level. Suggested electives listed on back.	SU	SU	SU
6	801-197	3	Technical Reporting	Prereq: 801-136	SU	SU	SU
6	809-196	3	Sociology, Introduction to ^{1,2,3}	Prereq: 838-105 OR 831-107	SU	SU	SU
7	*150-143	4	Computer Security/Pen Test	Prereq: 151-130	F	F	F
7	*151-132	3	SOC: Monitor/Secure the Infrastructure	Prereq: 151-130	F	F	F

Minimum Program Total Credits Required: 65

Notes associated with courses (identified by a superscript number at the end of the course title) are located on the back of the sheet.

📍 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 minimum of 2.0 ("C") or above for these major courses to meet graduation requirements.

IT – Cybersecurity Specialist (10-151-2)

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 defenses and countermeasures. 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
- Professionalism and Career Management
- Cultural Competence
- Critical Thinking and Problem Solving
- Teamwork and Collaboration
- Technology Competence

Admission Requirements

1. Students must submit an application and pay \$30 fee.
2. Students must meet one of the following: minimum high school GPA of 2.6, minimum college GPA of 2.0, or complete valid reading, writing, and math placement assessments.

Graduation Requirements

- Minimum 65 credits with an average of 2.0 or above.
- *Minimum of 2.0 ("C") or above for these major courses.
- Complete 890-155 Gateway to Success (G2S) in the first semester.

For a complete list of Graduation Requirements, check the Student Handbook or [Graduation Requirements](#).

Suggested Electives

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

Notes

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
2. Transfer credits in Social Science may substitute for this course. See an advisor for details.
3. A credit for prior learning assessment is available for this course. For more information, please contact cfpl@gtc.edu.



Foxconn preferred programs prepare students for potential career opportunities at Foxconn. Completion of a preferred program does not guarantee employment.

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult My Gateway for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.

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