

IT – Cybersecurity Specialist (10-151-2)

Associate of Applied Science

Effective 2026/2027

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. Courses in this program may be offered in a variety or combination of formats (for example: in-person, video conferencing, online, etc.). More detailed scheduling information for this program can be found at <https://www.gtc.edu/cybersecurity> Please see your academic advisor for additional information.

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

| Term | Course Number | Credits | Course Title | Requisites (prereq- before/ coreq-with) | Notes | R-E | O |
|------|---------------|---------|------------------------------------|---|--|-----|----|
| 1 | 890-155 | 1 | Gateway to Success (G2S) | | • Students are required to take this course in their first semester of enrollment. Please see an advisor for details. | F | F |
| 1 | *150-152 | 3 | IT Tech Skills | | | F | F |
| 1 | *150-194 | 3 | Network Security | | • Faculty have identified this milestone course as providing a strong foundation for success throughout the program. | F | F |
| 1 | 804-134 | 3 | Mathematical Reasoning | Prereq: 854-760 | • Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details. | F | F |
| 2 | *150-114 | 3 | Network Concepts–CCNA 1 | Coreq: 804-134 OR 804-135 | • Faculty have identified this milestone course as providing a strong foundation for success throughout the program. | S | S |
| 2 | *150-153 | 3 | Net Admin MS Server 2022 | Coreq: 150-114 | | S | S |
| 2 | *151-123 | 3 | Cybersecurity | | • Faculty have identified this milestone course as providing a strong foundation for success throughout the program. | S | S |
| 3 | *150-124 | 3 | Routing – CCNA 2 | Prereq: 150-114 | | SU | SU |
| 3 | *150-145 | 3 | IT Scripting | | | SU | SU |
| 3 | 801-136 | 3 | English Composition 1 | Prereq: 831-103 OR 851-757 | • Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details. | SU | SU |
| 4 | *151-130 | 3 | Cisco CyberOps (SOC) | Prereq: 151-123 | | F | F |
| 4 | *151-131 | 3 | Managing and Configuring Firewalls | Prereq: 151-123 | | F | F |

(*) Students must achieve a minimum of 2.0 (“C”) or above for this major course to meet graduation requirements.

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| Term | Course Number | Credits | Course Title | Requisites (prereq- before/ coreq-with) | Notes | R-E | O |
|------|---------------|---------|--|--|--|-----|----|
| 5 | *150-106 | 3 | Intrusion Detection Systems | | | S | S |
| 5 | *151-121 | 3 | AWS Cloud | Prereq: 151-123 | | S | S |
| 6 | *151-124 | 3 | Cybersecurity Technologies | Prereq: 151-123 | | SU | SU |
| 6 | 809-196 | 3 | Sociology, Introduction to | Prereq: 838-105 OR 851-757 | • Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details. | SU | SU |
| 7 | *150-150 | 3 | Red Hat Enterprise Linux I | Prereq: 150-119 OR 150-153 Coreq: 801-136 | | F | F |
| 7 | 801-198 | 3 | Speech | | | F | F |
| 7 | 809-198 | 3 | Psychology, Introduction to | Prereq: 838-105 OR 851-757 | • Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details. | F | F |
| 8 | *151-122 | 3 | Computer Security/Pen Test | Prereq: 151-130 | | S | S |
| 8 | *151-125 | 3 | Cybersecurity: Attack & Defend | Prereq: 151-123 | | S | S |
| 8 | *151-132 | 3 | SOC: Monitor/Secure the Infrastructure | Prereq: 151-130 | | S | S |

Minimum Program Total Credits Required: 64

(*) Students must achieve a minimum of 2.0 ("C") or above for this major course 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 Identify security strategies.
- 2 Implement secure infrastructures.
- 3 Conduct security testing.
- 4 Analyze security data.
- 5 Mitigate risk.
- 6 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:

- 1 Communication Competence
- 2 Critical Thinking and Problem Solving
- 3 Professionalism and Career Management
- 4 Teamwork and Collaboration
- 5 Cultural Competence
- 6 Technology Competence

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for one year 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. The District reserves the right to modify, cancel, or relocate course offerings in response to factors such as low enrollment, resource availability, or other relevant considerations to ensure high-quality educational experiences. Students will be notified in writing and are encouraged to meet with their Academic Advisor to adjust their academic plan.

Admission Requirements

- 1 Students must submit an application and pay \$30 fee.
- 2 Students must meet one of the following: minimum cumulative high school GPA of 2.6 (unweighted); earned at least 12 college credits with a minimum GPA of 2.0; or complete valid reading, writing, and math placement assessments.

Graduation Requirements

- 1 Minimum 64 credits with a cumulative GPA of 2.0 or above.
- 2 *Minimum of 2.0 ("C") or above for these major courses.
- 3 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](#).

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