



Effective 2017/2018

Career Cluster ►



Career Pathway ►

Network Systems

**IT-NETWORK SPECIALIST**  
**(10-150-2B) – Cybersecurity Specialist**  
 Associate of Applied Science Degree  
 Most Courses Offered at Elkhorn  
 and Racine Campuses

△ Suggested Sequence	✓	Course Number	Course Title	Requisites	Credits	Hrs/Wk Lec - Lab
Semester 1		150-114 *	Network Concepts – CCNA 1		3	2-2
		150-127 *	Security Laws & Policies		3	2-2
		150-194 *	Network Security		3	2-2
		804-107	OR College Math	Prereq: 834-109 (See Note 1)	3	3-0
		804-115	OR College Technical Math 1	Prereq: 834-110 (See Note 1)	5	5-0
		809-198	Psychology, Introduction to	Prereq: 838-105 (See Note 1 & 3)	3	3-0
Semester 2		150-145 *	IT Scripting	Prereq: 150-114	3	2-2
		150-147 *	Network Administration – Microsoft 1	Prereq: 150-114	3	2-2
		150-146 *	Cyber Security	Prereq: 150-194	4	2-4
		150-124 *	Routing – CCNA 2	Prereq: 150-114	3	2-2
		801-136	English Composition 1	Prereq: 831-103 (See Note 1)	3	3-0
Semester 3		150-106 *	Intrusion Detection Systems	Prereq: 150-194	3	2-2
		150-129 *	Mobile Security	Prereq: 150-124	3	2-2
		150-144 *	Firewalls & VPNs	Prereq: 150-124	4	2-4
		801-197	Technical Reporting	Prereq: 801-136	3	3-0
		809-196	Sociology, Introduction to	Prereq: 838-105 (See Note 1 & 3)	3	3-0
Semester 4		150-143 *	Computer Security/Pen Test	Prereq: 150-106	4	2-4
		150-126 *	Network Security Design	Prereq: 150-106	3	2-2
		150-113 *	Network Administration Linux	Prereq: 150-106	4	2-4
Electives		<b>Take 3 elective credits. Any associate degree level course may be taken as an elective.</b>				<b>3</b>
		<b>Suggested Electives:</b> 150-108 Virtual Technologies (3Cr.)      150-180 What's in the Cloud? (3 Cr.) 801-198 Speech (3 Cr)                      801-196 Oral/Interpersonal Communications (3 Cr) 809-195 Economics (3 Cr)                809-143 Microeconomics (3 Cr) 150-125 CCNA Security (4 Cr)            809-144 Macroeconomics (3 Cr)				

**Minimum Program Total Credits Required 61**

△ Courses may be taken out of suggested sequence as long as requisites have been met.



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**PROGRAM DESCRIPTION**

*IT-Network Specialist-Cybersecurity Specialist* is designed to prepare students for a professional career in the network security field. The program trains students in how to create a quality Risk Management strategy in order to secure a network environment. Students will complete the following tasks: create security policies and procedures, install VoIP systems, install and configure firewalls and secure VPNs. Additional topics include designing a secure network environment and monitoring systems using IDS/IPS.

**PROGRAM LEARNING OUTCOMES**

**Graduates of the IT-Network Specialist Associate Degree program should be able to:**

1. Implement computer networks.
2. Implement client systems.
3. Implement server operating systems.
4. Implement network security components.
5. Develop technical documentation.
6. Troubleshoot network systems.

**CORE ABILITIES**

Gateway believes students need both technical knowledge and skills and core abilities in order to succeed in a career and in life. The following nine core abilities are the general attitudes and skills promoted and assessed by all Gateway programs. All Gateway graduates should be able to:

- |  |   |
|--|---|
| 1. Act responsibly                     | 6. Respect themselves and others as a member of a diverse community |
| 2. Communicate clearly and effectively | 7. Think critically and creatively                                  |
| 3. Demonstrate essential comp. skills  | 8. Work cooperatively   |
| 4. Demonstrate essential math skills   | 9. Value learning   |
| 5. Develop job seeking skills          |   |

**ADMISSION REQUIREMENTS**

1. Students must submit an application & \$30 fee.
2. Students must complete reading, writing, and math skills placement assessments.
3. Students must submit official high school, GED, or HSED transcript.

**GRADUATION REQUIREMENTS**

1. Minimum 61 credits with an average of 2.0 or above.
2. \*Minimum of 2.0 ("C") or above for these major courses.

*For a complete list of Graduation Requirements check the Student Handbook.*

**NOTES**

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
2. Any course may be taken prior to entry in the program, assuming prerequisites and corequisites have been satisfied (or waived with departmental approval).
3. Transfer credits in Social Science may substitute for this course. See an advisor for details.

**OTHER INFORMATION**

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 Web Advisor 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.

**EQUAL OPPORTUNITY EMPLOYER AND EDUCATOR  
EMPLEADOR Y EDUCADOR QUE OFRECE IGUALDAD DE OPORTUNIDADES**

To schedule an appointment with an advisor, please call 1-800-247-7122.

For a complete list of course descriptions (and possible online courses) for this program, please consult Web Advisor on our web page at [www.gtc.edu](http://www.gtc.edu).

My advisor is \_\_\_\_\_. My advisor's contact information is \_\_\_\_\_.