



Information Technology Cybersecurity Entry-level Certificate

START here

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SEMESTER 1 – FALL	CREDITS	MILESTONE	COMPLETED
ITC 101 – Intro to IT	4		<input type="checkbox"/>
NST 181 – Networking I	3		<input type="checkbox"/>
MAT 120 – Math for Liberal Arts –or– MAT 177 – Statistics	3		<input type="checkbox"/>

TOTAL CREDITS 10

2

SEMESTER 2 – SPRING	CREDITS	MILESTONE	COMPLETED
ITC 111 – Scripting for Security	4		<input type="checkbox"/>
NST 121 – Computer System Fundamentals	4		<input type="checkbox"/>
NST 231 – Networking II	3		<input type="checkbox"/>
ITC 281 – Computer Network Security I	3		<input type="checkbox"/>

TOTAL CREDITS 14

3

SEMESTER 3 – FALL	CREDITS	MILESTONE	COMPLETED
ITC 282 – Computer Network Security II	3		<input type="checkbox"/>

TOTAL CREDITS 3

You've FINISHED!

Certificate Programs

Certificate programs can serve as the basis for further higher education or professional studies. Certificate programs require students to complete specified coursework, mainly related to particular fields of employment.

While many students enroll in a certificate program in preparation for direct entry into employment, they often return to college, part time or full time, and apply the credits previously earned to an associate degree program.

Milestone Courses
should be taken in the order shown. This will help you stay on track and graduate on time.

Helpful Hints

- NST courses are very sequential; students are advised to take all NST courses as prescribed for each semester.
- The college offers accelerated math classes to help students meet math requirements.
- All NST and ITC courses are available only in Lowell.
- All credits earned for the IT Cybersecurity Entry-level Certificate transfer toward the associate degree in IT Cybersecurity Transfer.

Career and Transfer Outlook

The U.S. Department of Labor projects computer security specialists' employment to grow by 22% from 2010 to 2020, a faster-than average outlook. Graduates of this certificate will have basic cybersecurity knowledge and will be prepared to find entry-level network administration positions. They will also be able to transfer to either the IT Cybersecurity Advanced Certificate or the Liberal Studies IT Cybersecurity Transfer Associate Degree program. Career opportunities are open to students with Certificate, A.S, B.S. and advanced degrees in the secure configuration, operation and analysis of enterprise computer networks, including infrastructure devices, network services and the servers upon which they run.

To learn more, call us at 1-800-818-3434 or visit www.middlesex.mass.edu



Information Technology Cybersecurity

The **Information Technology Cybersecurity** program at Middlesex Community College offers a clear pathway so you can meet your educational and career goals. You may start by earning an Entry-Level and/or Advanced Certificate and then move on to earning an Associate in Science Degree in Information Technology Cybersecurity Transfer. You may also directly begin your studies in the associate degree program, which leads to a bachelor's degree. Your job options grow with each extra step, as does earning potential! **Program Outcome skill competencies** can be found on the individual program pages of the MCC Academic Catalog at www.middlesex.mass.edu/catalog.

ENTRY-LEVEL CERTIFICATE

Competencies: Prepares students for employment in a variety of entry-level network administration positions.

Learn more about the competencies at www.middlesex.mass.edu/catalog

JOB OPTIONS

Test Technician 1
Junior Helpdesk / Facilities Technician
IT Intern

SALARY RANGE

\$30,000-\$43,000
(\$14.50 - \$20.50 / hr)



ADVANCED CERTIFICATE

Competencies: Prepares students for a variety of positions in network security administration.

Learn more about the competencies at www.middlesex.mass.edu/catalog

JOB OPTIONS

Helpdesk / Information Technology Technician
IT Support Specialist
IT Administrator - Intern
End User Client 1

SALARY RANGE

\$43,000-\$59,000
(\$20.50 - \$28.00 / hr)



ASSOCIATE DEGREE

Competencies: Prepares students either for transfer to a related bachelor's degree program in cybersecurity, or for employment in a variety of entry-level information security analyst positions in network security administration.

Learn more about the competencies at www.middlesex.mass.edu/catalog

JOB OPTIONS

Information System Technologist Intern
IT Support Technician
Network Administrator / Engineer
IT Help Desk Technician
Service Desk Administrator - IT
Information Systems Specialist

SALARY RANGE

\$44,000 - \$85,000
(\$21.00 - \$41.00 / hr)



CAREER GROWTH

Job opportunities for those with a Bachelor's degree include: Cybersecurity Engineer, Security Sales Engineer, Senior Information Assurance Specialist I, Network Engineer, Linux System Administrator and Information Security Engineer.



Learn more about cybersecurity jobs, salaries, required education, and employment outlook by visiting <http://www.bls.gov/ooh/> or <http://burning-glass.com/research/cybersecurity/>



Average **starting salary** for students earning a Bachelor's degree is **\$70,000**

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