Pathways to Achievement, Completion, Career & Transfer

ACADEMIC MAP 2018-2019

15 to FINISH
MIDDLESEX COMMUNITY COLLEGE

818

Information Technology Cybersecurity Entry-level Certificate

START here

1

SEMESTER 1 – *FALL*	CREDITS	MILESTONE	COMPLETED
ITC 101 – Intro to IT	4		☐
NST 181 – Networking I	3		☐
MAT 120 – Math for Liberal Arts –or– MAT 177 – Statistics	3		☐
	TOTAL CREDITS	10	

2

SEMESTER 2 – *SPRING*	CREDITS	MILESTONE	COMPLETED
ITC 111 – Scripting for Security	4		☐
NST 121 – Computer System Fundamentals	4		☐
NST 231 – Networking II	3		☐
ITC 281 – Computer Network Security I	3		☐
	TOTAL CREDITS	14	

3

SEMESTER 3– *FALL*	CREDITS	MILESTONE	COMPLETED
ITC 282 – Computer Network Security II	3		☐
	TOTAL CREDITS	3	

You've FINISHED!

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.

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.

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**

Pathways to Achievement, Completion, Career & Transfer

CAREER MAP

15 to FINISH
MIDDLESEX COMMUNITY COLLEGE

718

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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