

Middlesex Community College: AS IT Cybersecurity

CPS: BS. IT

Course Title	Credits
ENG 101 English Comp I	3
ENG 102 English Comp II	3
ETH 101 Ethics and Society	3
IDS 101 General Education Seminar: First-Year Experience	1
IDS Elective	1
Total	
IDS Elective	1
Social Science Elective (ECO 140 Principles of Macroeconomics Recommended)	3
MAT 177 Statistics	3
Science Elective with Lab (SCI 130 recommended)	4
ITC 101 IT Support	4
Total	
NST 121 Computing System Fundamentals	4
NST 181 Networking I	3
ITC 111 Scripting for Security	4
ITC 281 Cybersecurity I	3
NST 231 Networking II	3
Total	
ITC 201 Virtualization and Cloud Computing Security	4
ITC 282 Cybersecurity II	3
ITC 22? Database Systems and Security	4
ITC 240 Ethical Hacking	4
ITC 250 IT Cybersecurity Capstone	3
Total	
	61

ENG1105/1106 College Writing 1 and lab	3
ENG1107/1108 College Writing 2 and lab	3
PHL2100 Business Ethics	3
Open Elective	1
Open Elective	1
ECN1200 Principles of Macroeconomics	3
MTH2300 Business Statistics	3
BIO11990 BIO Elective	4
ITC1990 ITC Elective	4
ITC1200 Operating Systems Concepts	4
ITC1990 ITC Elective	3
ITC1990 ITC Elective: App Dev	4
ITC2990 ITC Elective	3
ITC2200 Networking Foundations	3
ITC2990 ITC Elective	4
ITC4200 Network Security	3
ITC2990 ITC Elective	4
ITC2990 ITC Elective	4
ITC2990 ITC Elective	3

Note: No duplicate courses will be accepted.

**Courses greyed out below are courses already mapped to the degree.

Complete the following core courses:

- ENG 1105 College Writing I
- ENG 1107 College Writing II
- ENG 3105 Professional Professions: Business and the Social Sciences
- MTH 1100 College Algebra
- MGT 1100 Introduction to Business
- MGT 2310 Organizational Behavior
- MTH 2400 Probability & Applications of Discrete Mathematics

Pick one of the following:

- PHL 2100 Business Ethics
- PHL 2140 Philosophical Issues in Science and Engineering
- ITC 3620 Social and Ethical Issues in Cybersecurity

Major Requirements:

- ITC 1100 Human Computer Interaction
- ITC 1200 Operating Systems Concepts
- ITC 2000 Principles of Systems Analysis and Design
- ITC 2016 End User Data Analysis Tools
- ITC 2100 Introduction to Programming (Java)
- ITC 2200 Networking Foundations
- ITC 2300 Database Management Systems
- ITC 2400 Web and Mobile Development
- ITC 4500 IT Project Management
- ITC 4600 Information Security Management
- ITC 4840 Preparation for IT Project
- ITC 4850 Information Technology Project

Professional Electives:

Complete 15 credits in the following subject areas: ALY, CET, GET, ITC

Pick a concentration:

Applications Development Concentration (Optional Track): Choose five courses not already used to fulfill major requirements

- ALY 2010 Probability Theory and Intro to Statistics
- ALY 2100 Intro to Programming for Data Analytics
- GET 2100 Computer Engineering Programming and Analysis
- CET 2200 Data Structures and Algorithms
- CET 2300 Object-Oriented Programming
- ITC 2430 E-Commerce Systems
- ITC 3100 Advanced Applications Development
- ITC 3150 Database Websites
- ITC 3300 Structured Query Language (SQL)
- ITC3320 Data Warehousing Technologies
- ITC 3400 Web Design and Multimedia

OR

Systems Administration and Cybersecurity Concentration (Optional Track): Choose five courses not already used to fulfill major requirements

- ITC3220 Mobile and Wireless Networking
- ITC 3250 UNIX Systems Administration
- ITC 3620 Social and Ethical Issues in Cybersecurity
- ITC4200 Network Security
- ITC4260 Oracle Database Administration
- ITC 4680 Forensics in Information Technology
- ITC 4660 Encryption Concepts
- ITC 4670 Software Vulnerabilities

Remaining Open Electives:

Complete 30 credits to reach the minimum 120 credits.