

CYBER-INFORMATION SECURITY, AN OPTION TO THE ASSOCIATE IN SCIENCE IN COMPUTER SCIENCE

Program Description

The Cyber/Information Security option to the A.S. in Computer Science is designed for those who major in computer science with plans to be in the information security field. This degree is a broad program of study that covers basics of cyber security and focuses on information security.

Transfer Information

Students pursuing the Computer Science degree can transfer into a Computer Science major. Many colleges offer opportunities for transfer both in and out of state. Students are encouraged to work closely with OCC faculty and Advising Transfer Services. Students planning to transfer to a four-year institution in NJ can explore the "Transfer Programs" feature on NJ Transfer www.njtransfer.org (<http://www.njtransfer.org/>).

Career Information

The Associate of Arts and the Associate of Science Degrees are designed to provide students with the coursework needed to transfer to a four-year institution and pursue a bachelor's degree. The curriculum provides students the knowledge and skills needed to pursue various career pathways, while providing a credential beyond the high school degree. Students are strongly encouraged to consult with OCC faculty and Career Services as they begin to explore career options. Students can also utilize Career Coach, a resource provided by OCC, to explore degree programs and corresponding careers <https://ocean.emsicc.com/>

Students are encouraged to keep track of degree requirements by using the "My Progress" screen on Student Planning. Student Planning can be accessed via logging into Ocean Connect.

Program Requirements

First Semester		Credit Hours
ENGL 151	English I	3
MATH 265	Calculus I	4
CSIT 165	Programming I	4
Humanities Gen. Ed. Requirement (https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#humanities)		3
STSC 150	Student Success Seminar	2
Credit Hours		16
Second Semester		
ENGL 152	English II	3
MATH 266	Calculus II	4
CSIT 144	Introduction to Operating System Using Unix	3
CSIT 185 or CSIT 184	Networking I or Networking Essentials	3
Humanities or Social Science Gen. Ed. Requirement (https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#humanities)		3
Credit Hours		16
Third Semester		
MATH 270	Discrete Mathematics	3
CSIT 200	Information Security Fundamentals	3

CSIT 212	Systems Analysis	3
Select one of the following to fulfill the Lab Science Gen. Ed. Requirement:		4
BIOL 161	General Biology I	
CHEM 181	General Chemistry I	
PHYS 281	General Physics I	
Social Science Gen. Ed. Requirement (https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#social)		3
Credit Hours		16
Fourth Semester		
CSIT 213	Database Management	3
Computer Science (CSIT) or Criminal Justice (CRIM) Elective		3
Select one of the following to fulfill the Lab Science Gen. Ed. Requirement:		4
BIOL 162	General Biology II	
CHEM 182	General Chemistry II	
PHYS 282	General Physics II	
Elective to meet 60 credits		2
Credit Hours		12
Total Credit Hours		60