

Computer Science – Cyber-Information Security Option

A.S. Degree Program – Catalog Year 2018-2019

The option is designed for those who major in computer science and desiring 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.

Faculty Contacts/Program Chairs

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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.

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/>

Fundamental Coursework

CSIT 165, 144, 185, 200, 212, 213

MATH 265, 266, 270

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.

Curriculum

First Semester

ENGL 151	English I	3 cr.
MATH 265	Calculus I	4 cr.
CSIT 165	Programming I	4 cr.
_____	Humanities Gen Ed Requirement	3 cr.
STSC 155	College Success Seminar	<u>3 cr.</u>
		17 cr.

Second Semester

ENGL 152	English II	3 cr.
MATH 266	Calculus II	4 cr.
CSIT 144	Intro. to Operating Systems Using UNIX	3 cr.
CSIT 185	Networking I	3 cr.
_____	(or CSIT 184 Networking Essentials)	
_____	Humanities or Social Science	
_____	Gen Ed Requirement	<u>3 cr.</u>
		16 cr.

Third Semester

MATH 270	Discrete Mathematics	3 cr.
CSIT 200	Information Security Fundamentals	3 cr.
CSIT 212	Systems Analysis	3 cr.
BIOL 161 <u>or</u> ,	Lab Science Gen Ed Requirement	4 cr.
CHEM 181, <u>or</u>		
PHYS 281		
_____	Social Science Gen Ed Requirement	<u>3 cr.</u>
		16 cr.

Fourth Semester

CSIT 213	Database Management	3 cr.
_____	Computer Science Elective	3 cr.
BIOL 162 <u>or</u> ,	Lab Science Gen Ed Requirement	4 cr.
CHEM 182, <u>or</u>	(continue original science sequence)	
PHYS 282		
_____	Elective (to meet required 64 cr.)*	<u>5 cr.</u>
		15 cr.
		TOTAL CREDITS 64

Courses satisfying General Education Requirements must be selected from the list of Approved General Education Courses