

Computer Science: Information Technology Option

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

The program outlined here will prepare students for transfer to a four-year college to obtain a Bachelor of Science degree in computer information systems. The curriculum follows the model provided by the Association of Computing Machinery and the Institute of Electrical and Electronics Engineers Computer Society in order to assure maximum transferability. The field of information technology is interdisciplinary, with applications to all aspects of the economy. Information technologists need a balance of software and hardware applications with concentration in specific courses. This curriculum has been designed to prepare the student to meet the future needs of integration, design, deployment and management of computing, resources and services.

Faculty Contacts/Program Chairs

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Transfer Information

Students pursuing the Computer Science – Information Technology degree can transfer into majors such as Information Technology and Communications with a concentration or specialization in IT. 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, 166, 176, 213, 265 MATH 265, 266

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.
CSIT 165	Programming I	4 cr.
_____	Humanities Gen Ed Requirement	3 cr.
_____	Social Science Gen Ed Requirement	3 cr.
STSC 155	College Success Seminar	<u>3 cr.</u>
		16 cr.

Second Semester

ENGL 152	English II	3 cr.
MATH 265	Calculus I	4 cr.
CSIT 166	Programming II	4 cr.
CSIT 176	Computer Organization & Architecture	3 cr.
_____	Humanities or Social Science	
	Gen Ed Requirement	<u>3 cr.</u>
		17 cr.

Third Semester

MATH 266	Calculus II	4 cr.
CSIT 185	Networking I	3 cr.
CSIT 265	Data Structures and Algorithm Analysis	4 cr.
BIOL 161 <u>or</u> ,	Lab Science Gen Ed Requirement	<u>4 cr.</u>
CHEM 181, <u>or</u>		15 cr.
PHYS 281		

Fourth Semester

CSIT 213	Database Management	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		
_____	Electives (to meet required 64 cr.)*	<u>9 cr.</u>
_____		16 cr.

TOTAL CREDITS 64

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