

INFORMATION TECHNOLOGY, AN OPTION TO THE ASSOCIATE IN SCIENCE IN COMPUTER SCIENCE

Program Description

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.

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 (<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> (<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

Program Requirements

First Semester	Credit Hours
ENGL 151 English I	3
CSIT 165 Programming I	4
Humanities Gen. Ed. Requirement (https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#humanities)	3
Social Science Gen. Ed. Requirement (https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#social)	3
STSC 150 Student Success Seminar	2
Credit Hours	15

Second Semester	Credit Hours
ENGL 152 English II	3
MATH 265 Calculus I	4
CSIT 166 Programming II	4
CSIT 176 Computer Organization & Architecture	3
Humanities or Social Science Gen. Ed. Requirement (https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#humanities)	3
Credit Hours	17
Third Semester	Credit Hours
MATH 266 Calculus II	4
CSIT 185 Networking I	3
CSIT 265 Data Structures and Analysis	4
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	
Credit Hours	15
Fourth Semester	Credit Hours
CSIT 213 Database Management	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	6
Credit Hours	13
Total Credit Hours	60