

COMPUTER SCIENCE, ASSOCIATE IN 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 science. The curriculum follows the model provided by the Association of Computing Machinery and the Institute of Electrical and Electronic Engineers Computer Society in order to assure maximum transferability. This curriculum has been designed to address these needs in preparing the student for a future in computer science.

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

Program Requirements

First Semester		Credit Hours
ENGL 151	English I	3
MATH 265	Calculus I	4
CSIT 165	Programming I	4
Humanities Gen. Ed. (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 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		
MATH 267	Calculus III	4
CSIT 212 or CSIT 213	Systems Analysis or Database Management	3

CSIT 265	Data Structures and Analysis	4
PHYS 281	General Physics I	4
Credit Hours		15
Fourth Semester		
MATH 270	Discrete Mathematics	3
PHYS 282	General Physics II	4
Social Science Gen. Ed. Requirement (https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#social)		3
Elective to meet 60 credits		2
Credit Hours		12
Total Credit Hours		60