ASSOCIATE IN ARTS

Computer Science

CIP Code 11.0101

CSC.AA

CODE	COURSE	CREDITS
First Year/First Semester		
ENG-101	English Composition I	3
CSC-121	Structured Programming (C++)[1]	4
HIS-111	Western Civilization I or	
HIS-101	World Civilization I	3
MTH-124	Precalculus Mathematics II or	
MTH-125	Accelerated Precalculus or	
MTH-140	Calculus I	4
…….	Social Science General Education Elective	3
		17
Second Semester		
ENG-102	English Composition II	3
CSC-122	Computer Science I	4
HIS-112	Western Civilization II or	
HIS-102	World Civilization II or	
HIS-103	World Civilization III	3
MTH-150	Calculus II or	
MTH-111	Introduction to Statistics[2]	3/4
…….	Social Science General Education Elective	3
		16/17

CODE	COURSE	CREDITS
Second Year/First Semester		
CSC-223	Computer Science II	4
MTH-129	Discrete Mathematics	4
…….	Diversity General Education Elective	3
…….	Laboratory Science General Education Elective	4
…….	Language General Education Elective[3]	3
		18
Second Semester		
CSC-226	Programming Languages or	
CSC-240	Computer Organization	3
SPE-102	Public Speaking	3
…….	Language General Education Elective[3]	3
…….	Humanities General Education Elective	3
		12
	Total Minimum Credits	**62**

[1] It is recommended that students with no prior programming experience take CSC-105 Fundamentals of Programming prior to taking CSC-121 Structured Programming.

[2] Students must complete MTH-140. MTH-111 only to be taken if MTH-140 has been completed.

[3] Must take six credits in one language. *See individual languages under Course Descriptions for requisites on placement.

PROGRAM DESCRIPTION

The program is designed to match the first two years of a Bachelor of Art (B.A.) in computer science degree at a baccalaureate institution by providing a seamless transition to upper-division computer science coursework. The curriculum emphasizes the theoretical foundations of computing, data structures and algorithms, object-oriented software design and programming, computer architecture and the study of high-level language paradigms. Students practice analysis, design, implementation, and testing of software solutions. Students graduating from the program will be awarded an associate in arts degree.

PROGRAM GOALS

- To provide students with a foundation in a general education.
- To prepare students for transfer to a baccalaureate of science degree in Computer Scienc.e

PROGRAM STUDENT LEARNING OUTCOMES

At the end of the program, the graduate will be able to:

1. Analyze, design, develop and test computer based applications using problem solving and analytical skills developed throughout the program.
2. As part of a team, develop software applications that meet program requirements including the production of design and formal test plan documentation.
3. Demonstrate social awareness and analyze the global impact of computing on individuals, organizations and society.

POST-BACCALAUREATE EMPLOYMENT OPPORTUNITIES

- Software manager
- Technical assistant
- Computer marketing representative

TRANSFER OPPORTUNITIES

Students in this program transfer to many institutions including:
Rowan University
Rutgers University
Drexel University

CONTACT PERSON

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