COMPUTER SCIENCE – GENERAL

DESCRIPTION: This program is designed for students who plan to continue their education in pursuit of a four-year degree in Computer Science. The program includes all of the necessary courses to qualify for the MTA Articulation Agreement. All facets of business find computers and information systems to be essential. Qualified individuals are needed to relate the problem-solving abilities of a computer system to a company's operations. In this curriculum, students are preparing to work as computer programmers, coders, programmer-analysts, software application developers, database administrators, business intelligence analysts, web developers, software systems developers, or computer systems engineers in business and industry.

GENERAL EDUCATION REQUIREMENTS   CREDITS: 30

ENG 111 *or*	ENGLISH COMPOSITION I (3/3) *or*
ENG 121	ADVANCED ENGLISH COMPOSITION I (3/3)
ENG 112 *or*	ENGLISH COMPOSITION II (3/3) *or*
ENG 122	ADVANCED ENGLISH COMPOSITION II (3/3)
	HUMANITIES/FINE ARTS REQUIREMENT (6/6)
MTH 123	COLLEGE ALGEBRA & ANALYTIC TRIG (4/4) [A]
PLS 221 *or*	AMERICAN GOVERNMENT REQUIREMENT (3/3)
PLS 222 *or*	
HST 221 & HST 222	
	SOCIAL SCIENCE REQUIREMENT (3/3)
	NATURAL SCIENCE REQUIREMENT (4/5)
	LABORATORY SCIENCE REQUIREMENT (4/5)

CORE PROGRAM REQUIREMENTS   CREDITS: 16

CIS 206	OBJECT-ORIENTED PROGRAMMING (3/4) [A]
CIS 207	ADV OBJECT-ORIENTED PROGRAMMING (3/4) [A]
MTH 131	ANALYTIC GEOMETRY & CALCULUS I (5/5) [A]
MTH 132	ANALYTIC GEOMETRY & CALCULUS II (5/5) [A]

SUGGESTED ELECTIVES   CREDITS: 19

Electives will change depending on area of concentration and the specific four-year transfer institution's requirements. Consult your ACC academic advisor.

CNS 150	NETWORK FUNDAMENTALS (3/4) [A]
CNS 170	PC REPAIR & MAINTENANCE (4/5) [A]
CNS 230	INFORMATION SECURITY (3/4) [A]
MTH 221	C++ PROGRAMMING (4/5) [A]
MTH 231	ANALYTIC GEOMETRY & CALCULUS III (5/5) [A]

MINIMUM 60 CREDIT HOURS/68 CONTACT HOURS

NOTES:
[A] Included in occupational specialty.
A grade of 2.0 or higher must be maintained in occupational specialty courses

YEAR 1 (FALL SEMESTER)   CREDITS: 14

CIS 206	OBJECT ORIENTED PROGRAMMING (3/4)
CNS 170	PC REPAIR & MAINTENANCE (4/5)
ENG 111 *or*	ENGLISH COMPOSITION I (3/3) *or*
ENG 121	ADVANCED ENGLISH COMPOSITION I (3/3)
MTH 123	COLLEGE ALGEBRA & ANALYTIC TRIG (4/4)

YEAR 1 (SPRING SEMESTER)   CREDITS: 14

CIS 207	ADV OBJECT-ORIENTED PROGRAMMING (3/4)
ENG 112 *or*	ENGLISH COMPOSITION II (3/3) *or*
ENG 122	ADVANCED ENGLISH COMPOSITION II (3/3)
	HUMANITIES/FINE ARTS REQUIREMENT (3/3)
MTH 131	ANALYTIC GEOMETRY & CALCULUS I (5/5)

YEAR 2 (FALL SEMESTER)   CREDITS: 16

CNS 150	NETWORK FUNDAMENTALS (3/4)
CNS 230	INFORMATION SECURITY (3/4)
	HUMANITIES/FINE ARTS REQUIREMENT (3/3)
	NATURAL SCIENCE REQUIREMENT (4/5)
	SOCIAL SCIENCE REQUIREMENT (3/3)

YEAR 2 (SPRING SEMESTER)   CREDITS: 16

	LABORATORY SCIENCE REQUIREMENT (4/5)
MTH 231	ANALYTIC GEOMETRY & CALCULUS III (5/5)
MTH 221	C++ PROGRAMMING (4/5)
PLS 221 *or*	AMERICAN GOVERNMENT REQUIREMENT (3/3)
PLS 222 *or*	
HST 221 & HST 222	