COMPUTER SCIENCE – GENERAL
ASSOCIATE IN SCIENCE (AS) DEGREE

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)
MTH 123       COLLEGE ALGEBRA & ANALYTIC TRIG (4/4) A
PLS 221 or  AMERICAN GOVERNMENT REQUIREMENT (3/3)
PLS 222 or
HST 221 & HST 222

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

NOTE:
A included in occupational specialty.
A grade of 2.0 or higher must be maintained in occupational specialty courses

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SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER)  CREDITS: 14
CIS 206  OBJECT-OIENTED 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)
MTH 131  HUMANITIES/FINE ARTS REQUIREMENT (3/3)

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

MINIMUM 60 CREDIT HOURS/68 CONTACT HOURS