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 ENG 121
ENG 112 or ENG 122
MTH 123
PLS 221 or PLS 222 or HST 221 & HST 222

HUMANITIES/FINE ARTS REQUIREMENT (6/6)
MTH 131 COLLEGE ALGEBRA & ANALYTIC TRIG (4/4)
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)
CIS 207 ADVANCED OBJECT-ORIENTED PROGRAMMING (3/4)
MTH 131 ANALYTIC GEOMETRY & CALCULUS I (5/5)
MTH 132 ANALYTIC GEOMETRY & CALCULUS II (5/5)

SUGGESTED ELECTIVES CREDITS: 19
CNS 150 NETWORK FUNDAMENTALS (3/4)
CNS 170 PC REPAIR & MAINTENANCE (4/5)
CNS 230 INFORMATION SECURITY (3/4)
MTH 221 C++ PROGRAMMING (4/5)
MTH 231 ANALYTIC GEOMETRY & CALCULUS III (5/5)

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