

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, programmer-analysts, systems analysts, network administrators, software application developers, database administrators, business intelligence analyst, web developers, software systems developers, or computer systems engineers in business and industry.

GENERAL EDUCATION REQUIREMENTS CREDITS: 29-30

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| ENG 111 or ENG 121 | ENGLISH COMPOSITION I (3/3) or ADVANCED ENGLISH COMPOSITION I (3/3) |
| ENG 112 or ENG 122 | ENGLISH COMPOSITION II (3/3) or ADVANCED ENGLISH COMPOSITION II (3/3) |
| PLS 221 MTH 123 | AMERICAN GOVERNMENT & POLITICS (3/3) COLLEGE ALGEBRA & ANALYTIC TRIG (4/5) ^{AB} SOCIAL SCIENCE REQUIREMENT (3/3) HUMANITIES/FINE ARTS REQUIREMENT (6/6) NATURAL SCIENCE REQUIREMENT (3-4/3-4) LABORATORY SCIENCE REQUIREMENT (4/4-5) |

CORE PROGRAM REQUIREMENTS CREDITS: 16

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| MTH 131 | ANALYTIC GEOMETRY & CALCULUS I (5/5) ^A |
| MTH 132 | ANALYTIC GEOMETRY & CALCULUS II (5/5) ^A |
| MTH 221 | C++ PROGRAMMING (3/4) ^A |
| CIS 206 | OBJECT ORIENTED PROGRAMMING (3/4) ^A |

SUGGESTED ELECTIVES CREDITS: 15

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

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| CNS 170 | PC REPAIR & MAINTENANCE (4/5) ^A |
| CNS 150 | NETWORK FUNDAMENTALS (3/4) ^A |
| MTH 231 | ANALYTIC GEOMETRY & CALCULUS III (5/5) ^A GENERAL ELECTIVE (3/3-4) |

MINIMUM 60 CREDIT HOURS/65 CONTACT HOURS

NOTES:

^A Included in occupational specialty.

GPA of 2.0 or higher must be maintained in occupational specialty courses

^B Students must meet placement requirements, prerequisite requirements, or have instructor permission.

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SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER) CREDITS: 14

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| MTH 123 | COLLEGE ALGEBRA & ANALYTIC TRIG (4/5) |
| CNS 170 | PC REPAIR & MAINTENANCE (4/5) |
| CNS 150 | NETWORK FUNDAMENTALS (3/4) |

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| ENG 111 or ENG 121 | ENGLISH COMPOSITION I (3/3) or ADVANCED ENGLISH COMPOSITION I (3/3) |
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YEAR 1 (SPRING SEMESTER) CREDITS: 17

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| MTH 131 | ANALYTIC GEOMETRY & CALCULUS I (5/5) |
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| ENG 112 or ENG 122 | ENGLISH COMPOSITION II (3/3) or ADVANCED ENGLISH COMPOSITION II (3/3) |
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NATURAL SCIENCE REQUIREMENT (3-4/3-4)
HUMANITIES/FINE ARTS REQUIREMENT (6/6)
GENERAL ELECTIVE (3/3-4)

YEAR 2 (FALL SEMESTER) CREDITS: 15

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| MTH 132 | ANALYTIC GEOMETRY & CALCULUS II (5/5) SOCIAL SCIENCE REQUIREMENT (3/3) |
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| CIS 206 | LABORATORY SCIENCE REQUIREMENT (4/4-5) OBJECT ORIENTED PROGRAMMING (3/4) |
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YEAR 2 (SPRING SEMESTER) CREDITS: 14

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|---------|--|
| MTH 221 | C++ PROGRAMMING (3/4) |
| MTH 231 | ANALYTIC GEOMETRY & CALCULUS III (5/5) |
| PLS 221 | AMERICAN GOVERNMENT & POLITICS (3/3) HUMANITIES/FINE ARTS REQUIREMENT (6/6) |