

## COMPUTER AND INFORMATION SCIENCE

### Associate in Science in Computer and Information Science

<u>Recommended Sequence</u>	<u>Credits</u>
<b>First Semester (Fall)</b>	
<input type="checkbox"/> ENG 140 English Composition I	3
<input type="checkbox"/> CSC 102 Introduction to Technology	2
<input type="checkbox"/> CSC 103 Introduction to Computing	3
<input type="checkbox"/> MAT 141 Precalculus	3
<input type="checkbox"/> ___ GE Humanities Elective	3
	<b>14</b>
<b>Second Semester (Spring)</b>	
<input type="checkbox"/> ENG 141 English Composition II <i>or</i> COM 105 Interpersonal Communication	3
<input type="checkbox"/> CSC 110 Systems Analysis	3
<input type="checkbox"/> CSC 120 Data Communications	3
<input type="checkbox"/> CSC 121 Programming I (Python)	3
<input type="checkbox"/> MAT 201 Calculus I	4
	<b>16</b>
<b>Third Semester (Fall)</b>	
<input type="checkbox"/> CSC 122 Programming II (Java)	3
<input type="checkbox"/> CSC 230 Website Dev. & Design <i>or</i> CSC 235 Advanced Web Applications	3
<input type="checkbox"/> ECO 188 Macroeconomics	3
<input type="checkbox"/> ___ GE Lab Science Elective	4
<input type="checkbox"/> ___ GE Soc Sci/Humanities Elective	3
	<b>16</b>
<b>Fourth Semester (Spring)</b>	
<input type="checkbox"/> CSC 150 Operation Systems Fundamentals: Unix/Linux	3
<input type="checkbox"/> CSC 228 Advanced Programming Techniques (Data structures – Java)	3
<input type="checkbox"/> MAT 202 Calculus II	4
<input type="checkbox"/> ___ GE Lab Science	4
	<b>14</b>
<b>Total Credits Needed for Degree</b>	<b>60</b>

### General Education Requirements for A.S.

#### 1. COMMUNICATION

**Must complete 6 credits from the following:**

ENG-140      ENG-141      COM-143 or COM-105

#### 2. MATHEMATICS – SCIENCE – TECHNOLOGY

**Must complete 9 credits as specified by category:**

##### **A. Mathematics (3-6 credits)**

MAT-110      MAT-111      MAT-131

MAT-141      MAT-150      MAT-151

##### **B. Science (4-8 credits)**

BIO-145      BIO-150      BIO-162      BIO-163

BIO-165      BIO-170      BIO-176      BIO-262

CHE-110      CHE-164

##### **C. Technology (0-4 credits)**

CSC-102      CSC-103      CSC-112

#### 3. SOCIAL SCIENCE – HUMANITIES

**Must complete a total of 9 credits from A & B with at least 3 credits in each category:**

##### **A. Social Science (3-6 credits)**

ANT 289      ECO-188      ECO-189      GEO-105

POL -101      POL -115      POL-201      PSY-101

PSY-175      SOC-103      SOC-202

##### **B. Humanities (3-6 credits)**

ART-101      ART-105      ART-106      ART-107

ENG-199      ENG-201      ENG-202      ENG-240

ENG-241      ENG-242      FOR-101      FOR-103

FOR-133      FOR-151      FOR-201      FOR-251

HIS-101      HIS-102      HIS-113      HIS-114

HIS-220      HIS-225      HIS-250      HIS-260

MUS-191      MUS-211      PHI-101      PHI-102

PHI -103      PHI-204      PHI-261      THE-193

## **COMPUTER AND INFORMATION SCIENCE**

### **Associate in Science in Computer and Information Science**

The Associate in Science, Computer and Information Sciences Option is designed to parallel the first two years of a baccalaureate computer information systems or computer science-related degree program. The studies include computer programming, introductory computer architecture, mathematics, and general education courses.

Upon completion of the associate degree and a baccalaureate program, students will be prepared for a variety of sophisticated positions in the computer field as an applications/systems programmer, programmer/analyst, or software developer. Depending on student scheduling and availability, this program may be completed in two years of full-time study with day and evening classes or in three to five years of part-time evening study.

#### **Elective Categories:**

Students may select courses from any of the disciplines listed below each category to full-fill any remaining degree requirements above and beyond their General Education Requirements.

##### **SOCIAL SCIENCE:**

ANT CRJ ECO POL PSY SOC

##### **HUMANITIES:**

ART COM FOR ENG\* HIS MUS PHI THE

\* Literature Elective must be ENG-199, 201, 202, 205, 240, 241, 242, 244, 245

##### **BUSINESS:**

ACC BUS COM121 CSC ECO GRD LST

##### **LIBERAL ARTS:**

ANT ART BIO COM CHE CRJ  
ECO ENG\* FOR HIS  
MAT MUS PHI PHY  
POL PSY SOC THE

\* Literature Elective must be ENG-199, 201, 202, 205, 240, 241, 242, 244, 245

##### **FREE:**

Any college-level (100+) course that is not required as part of the degree program