### Information Technology

**Software Design and Information Technology Pathway**

This program of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within the plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

<table>
<thead>
<tr>
<th>Education Level</th>
<th>Grade</th>
<th>English / Language Arts</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies</th>
<th>Social Sciences</th>
<th>Humanities</th>
<th>Technical Courses</th>
<th>Career and Technical Standards and/or Degree</th>
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<tbody>
<tr>
<td><strong>High School</strong></td>
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<td></td>
<td>Algebra 1</td>
<td>Physics</td>
<td>Social Studies</td>
<td>Health/PE 1</td>
<td>Data Processing</td>
<td>Information Technology 1</td>
<td>First Certificate</td>
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<td>Geometry</td>
<td>Chemistry</td>
<td>Social Studies</td>
<td>Health/PE 2</td>
<td>AP CSP</td>
<td>Information Technology 2</td>
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<td>Biology</td>
<td>World History</td>
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<td>Career Elective</td>
<td>Personal Finance</td>
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**Program of Study**

**FIRST YEAR**

- **CIS 101**: Computer Introduction
- **CIS 121**: Introduction to Programming Language

**SECOND YEAR**

- **CIS 102**: Operating Systems I - Microsoft
- **CIS 170**: Introduction to Information Technology

**THIRD YEAR**

- **WR 101**: English Composition
  - English Composition I
- **CIS 103**: Computer Concepts II
  - CIS Program Elective

**FOURTH YEAR**

- **CIS 155**: Business Elective
  - General Education
- **Math 121**: Calculus I

**FIFTH YEAR**

- **CIS 175**: Business Elective
  - General Education
- **Math 221**: Calculus II

**Sixth Year**

- **CIS 195**: Business Elective

**Associate of Applied Science**

- Minimum of 94 credits

*Note: The Associate of Applied Science is designed for individuals already working in, or have worked in, an information technology position. Students must meet all CIS degree requirements to receive the degree.**

**Program Overview**

- **Minimum of 94 credits**
- Includes electives to allow for personalization of coursework.

**Program Goals**

- Students will take classes in the CIS Department that include software analysis, design, programming (in two or more languages), database systems, microcomputer systems, computer communications and an extensive selection of electives.
- Emphasis is on developing working skills and knowledge, rather than on teaching students to use specific tools and techniques. The program is designed to prepare students for a career in the Information Technology field.