**Information Technology Career Pathway**

**Start Pre-IT**
As early as grade 7 (based on readiness)

**Computer Programmer**
- Median Salary: $66,510
- Job Growth (10 yr): 4.8%
- Annual Openings: 280
- Average Tuition (1 yr): $0 – $3,900/yr

**Database Administrator**
- Median Salary: $73,660
- Job Growth (10 yr): 26.6%
- Annual Openings: 180
- Average Tuition (2 yrs): $3,900/yr

**IT Project Manager**
- Median Salary: $80,030
- Job Growth (10 yr): 1.7%
- Annual Openings: 186
- Average Tuition (4 yrs): $9,600/yr

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**Certificate**

**Associate Degree, Computer Information Science**

**Bachelor's Degree, IT Project Management**

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**Workplace Visits**
- Job Shadow
- Internship
- Work

**Supervised Experience**
- Work
- Internship
- Work
- Work

**Internship**
- Work

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Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

**Preparing students for multiple options after high school:**
Gainful employment and/or postsecondary study.

👍 Ohio In-demand Occupations

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.
### Secondary Pathway: Programming and Software Development

### Postsecondary Program: Programming and Software Development

#### An Example of Courses with Secondary and Postsecondary Credits

<table>
<thead>
<tr>
<th></th>
<th>7-8</th>
<th>9-10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Secondary</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year</td>
<td>1st</td>
<td>2nd</td>
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<tr>
<td>Semester</td>
<td></td>
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</tr>
<tr>
<td>English I</td>
<td>Algebra I</td>
<td>Physical Science</td>
<td>Social Studies</td>
<td>Fine Arts</td>
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<tr>
<td>English II</td>
<td>Geometry</td>
<td>Biology</td>
<td>World History</td>
<td>Health (.5) PE (.5)</td>
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<tr>
<td>English III</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Systems Analysis &amp; Design</td>
</tr>
<tr>
<td>English IV</td>
<td>Trigonometry/Calculus</td>
<td>Physics</td>
<td>U.S. Government</td>
<td>Database Applications Development</td>
</tr>
<tr>
<td>Year 1</td>
<td>1st</td>
<td>Semester</td>
<td></td>
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</tr>
<tr>
<td>English Seminar</td>
<td>College Seminar</td>
<td>Intro to Business</td>
<td>Computer Programming</td>
<td>Operating Systems &amp; Security</td>
</tr>
<tr>
<td>Technical Writing</td>
<td>Math for Information Technology</td>
<td>Internet Programming I</td>
<td>Database</td>
<td>Advanced C++</td>
</tr>
<tr>
<td>Year 2</td>
<td>1st</td>
<td>Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Algebra</td>
<td>Visual Basic I</td>
<td>Internet Programming II</td>
<td>Systems Analysis &amp; Design</td>
<td>Natural Science Elective</td>
</tr>
<tr>
<td>Communication</td>
<td>Visual Basic II</td>
<td>Java Programming</td>
<td>Arts &amp; Humanities Elective</td>
<td>Social Science Elective</td>
</tr>
<tr>
<td>Year 2</td>
<td>2nd</td>
<td>Semester</td>
<td></td>
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</tr>
</tbody>
</table>

#### High School Career-Technical Education Program Courses

<table>
<thead>
<tr>
<th></th>
<th>Required Courses</th>
<th>Recommended Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Visit education.ohio.gov/CareerConnections for reference information.

Course titles and sequences will vary between schools.

11/2014