SOFTWARE DEVELOPMENT - MINOR

College of Applied and Technical Studies
www.kent.edu/cats

Contact Information
• CATS@kent.edu
• Speak with an Advisor
  • Ashtabula Campus
  • East Liverpool Campus
  • Geauga Campus
  • Salem Campus
  • Stark Campus
  • Trumbull Campus
  • Tuscarawas Campus
  • Online (any campus above)

Fully Offered
• Delivery:
  • Fully online
  • In person
• Location:
  • Ashtabula Campus
  • Tuscarawas Campus
  • Trumbull Campus
  • Stark Campus
  • Salem Campus
  • Kent Campus
  • Geauga Campus
  • East Liverpool Campus

Description
The Software Development minor is designed to complement a wide range of majors. The curriculum focuses on visual basic, scripting and programming mobile devices. Electives provide flexibility to tailor the minor to each student's interests and career goals. For example, a student might choose a different programming language or a more in-depth course in scripting, visual basic or data design.

Admission Requirements
Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 21005</td>
<td>VISUAL BASIC DATABASE PROGRAMMING</td>
<td>4</td>
</tr>
<tr>
<td>IT 21036</td>
<td>WEB SCRIPTING I</td>
<td>3</td>
</tr>
<tr>
<td>IT 36309</td>
<td>PROGRAMMING MOBILE APPLICATIONS</td>
<td>3</td>
</tr>
<tr>
<td>IT 46308</td>
<td>ADVANCED VISUAL BASIC PROGRAMMING</td>
<td>3</td>
</tr>
</tbody>
</table>

Information Technology Electives, choose from the following:  6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>IT 20001</td>
<td>C++ PROGRAMMING</td>
</tr>
<tr>
<td>IT 20011</td>
<td>JAVA PROGRAMMING</td>
</tr>
<tr>
<td>IT 36302</td>
<td>ADVANCED C# PROGRAMMING</td>
</tr>
<tr>
<td>IT 36308</td>
<td>ERGONOMICS IN COMPUTER SYSTEMS</td>
</tr>
<tr>
<td>IT 36336</td>
<td>WEB SCRIPTING II</td>
</tr>
<tr>
<td>IT 46309</td>
<td>ASP.NET WEB PROGRAMMING</td>
</tr>
<tr>
<td>IT 46315</td>
<td>SQL WITH ORACLE</td>
</tr>
<tr>
<td>IT 46321</td>
<td>WEB DATABASE INTEGRATION</td>
</tr>
<tr>
<td>IT 46340</td>
<td>DATA DESIGN AND IMPLEMENTATION</td>
</tr>
</tbody>
</table>

Minimum Total Credit Hours: 19

Minimum 3 credit hours of electives must be upper-division.

Graduation Requirements

Minimum Minor GPA  Minimum Overall GPA
2.000             2.000

• Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
• Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
• Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).