SOFTWARE & SYSTEMS DEVELOPMENT

Students in the Software and Systems Development pathway prepare for careers related to computer science that involve the design, development, implementation, maintenance, and management of systems that rely on software programs to satisfy the operational needs of modern business organizations.

SAMPLE PROGRAM OF STUDY

A pathway is an opportunity for students to complete sequential courses in Career Technical Education, as they progress towards graduation. This increases their options by exploring careers for post secondary education and future employment.

<table>
<thead>
<tr>
<th>9TH GRADE</th>
<th>10TH GRADE</th>
<th>11TH GRADE</th>
<th>12TH GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td>English 1</td>
<td>English 2</td>
<td>English 3</td>
</tr>
<tr>
<td>MATH</td>
<td>Math 1</td>
<td>Math 2</td>
<td>Math 3</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>Earth Science</td>
<td>Biology</td>
<td>Chemistry</td>
</tr>
<tr>
<td>SOCIAL SCIENCE</td>
<td>World History</td>
<td>US History</td>
<td>Civics/Economics</td>
</tr>
<tr>
<td>P.E.</td>
<td>PE 1</td>
<td>PE 2</td>
<td>Health</td>
</tr>
<tr>
<td>WORLD LANGUAGE</td>
<td>Spanish 1</td>
<td>Spanish 2</td>
<td></td>
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</tbody>
</table>

VPA OF CHOICE

NHHS: Exploring Computer Science (G)
NHHS: Intro to Computer Science in Python (D)
NHHS: AP Computer Science Principles (D)
NHHS: AP Computer Science A (C)

KEY: UC/CSU APPROVED C: MATH, D: SCIENCE, G: ELECTIVE

COLLEGES & MAJORS

- Orange Coast College
  - Computer Information Systems
- Irvine Valley College
  - Computer Information Management
- Saddleback College
  - Computer Information Management
  - Computer Maintenance Technology
  - Computer Science
- CSUF
  - Computer Engineering
  - Computer Science
- CSULB
  - Computer Engineering Technology
  - Computer Science
- CSUSD
  - Computer Engineering
  - Computer Science
- Cal Poly SLO
  - Software Engineering
- UCI
  - Business Information Management
  - Computer Game Science
  - Computer Science
  - Data Science
  - Software Engineering
  - Informatics

JOBS & INCOME

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Average Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Information Systems</td>
<td>$55,000</td>
</tr>
<tr>
<td>Computer Infrastructure</td>
<td>$72,000</td>
</tr>
<tr>
<td>Computer Networking</td>
<td>$65,000</td>
</tr>
<tr>
<td>Computer Programming</td>
<td>$67,000</td>
</tr>
<tr>
<td>Computer Software Dev</td>
<td>$60,000</td>
</tr>
<tr>
<td>Information Technology</td>
<td>$75,000</td>
</tr>
<tr>
<td>World Wide Web Admin</td>
<td>$62,000</td>
</tr>
</tbody>
</table>

NEXT STEPS

- TALK TO YOUR SCHOOL COUNSELOR OR ROP CAREER SPECIALIST
- VISIT SCHOOLINKS TO CONTINUE RESEARCHING COLLEGES & CAREERS
- VISIT: WEB.NMUSD.US/CTE

SOFTWARE & SYSTEMS DEVELOPMENT PATHWAY