**NETWORKING**

Information and Communication Technologies (ICT) have expanded the need for employees who can understand, manage, support all rapidly emerging, evolving, and converging computer, software, networking, telecommunications, Internet, programming, and information systems. In this pathway students will learn the principles of networking and various technologies to evaluate networking tasks and select network components, media, and protocols to solve networking challenges including threats to cyber security.

**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>
</tr>
</tbody>
</table>

**NETWORKING PATHWAY**

|-----------------------------------|----------------------------------------|-----------------|-----------------|

**KEY:** UC/CSU APPROVED D: SCIENCE, G: ELECTIVE

**NEXT STEPS**

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

**COLLEGES & MAJORS**

- **Coastline College**
  - Computer Networking
  - Cybersecurity
- **Irvine Valley College**
  - Computer Information Management
- **Saddleback College**
  - Computer Info Management
  - Computer Maintenance Technology
  - Computer Science
- **CSUF**
  - Computer Engineering
  - Computer Science
- **CSULB**
  - Computer Engineering Technology
  - Computer Science
- **CSUSD**
  - Computer Engineering
  - Computer Science
- **UCI**
  - Business Information Management
  - Computer Game Science
  - Computer Science
  - Software Engineering

**NETWORKING JOBS & INCOME**

*Source: Salary Surfer & O*Net Online*

- Computer Information Systems: $184,000
- Computer Infrastructure: $72,000
- Computer Networking: $65,000
- Computer Software Dev: $60,000
- Digital Forensic Analyst: $102,000
- Information Security Engineers: $103,000
- Penetration Testers: $102,870