Information Technology
AVCTC Career Cluster Program of Study

This Program of Study Template can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner’s educational and career goals.

**Ask your high school counselor to help you fill in the required courses you need to graduate.**

<table>
<thead>
<tr>
<th>Grade</th>
<th>English 8 semesters</th>
<th>Math 6 semesters</th>
<th>Science 6 semesters</th>
<th>Social Studies 6 semesters</th>
<th>Other Required Courses, Recommended Electives</th>
<th>Career &amp; Technical Courses and/or Degree Major Courses</th>
<th>SAMPLE Occupations Relating to this Pathway</th>
</tr>
</thead>
</table>
| 9     | Comm Arts I         | High School Math | High School Science | High School S.S. Course   | Personal Finance Computer Science Computer Science Electives | Keyboarding, Computer Applications, Agriculture Computers | ► Communications Analyst  
► Data Communications Analyst  
► Information Systems Administrator  
► Information Systems Operator  
► Information Technology Engineer  
► Network Administrator  
► Network Architect  
► Network Engineer  
► Network Manager  
► Network Operations Analyst  
► Network Security Analyst  
► Network Specialist  
► Network Technician  
► Network Transport Administrator  
► PC Support Specialist  
► Systems Administrator  
► Systems Engineer  
► Systems Support Leader  
► Technical Support Specialist  
► Telecommunications Network Technician  
► User Support Specialist |
| 11    | Comm Arts III *English Comp I | Pre-College Algebra or high school math course *College Algebra *College Trig | High School Science *MFH College General Biology Science Course – AVCTC Hub | High School S.S. Course – History & Government *College History I & II *College Political Systems | *Personal Finance *Computer Science *Computer Science Electives *AVCTC – Computer networking classes |
| 12    | Senior Comm Arts & Comm Arts elective *English Comp II *Intro to Literature | Pre-College Algebra or high school math * College Algebra *College Trig | High School Science *MFH College General Biology Science Course – AVCTC Hub | High School S.S. Course – History & Government *College History I & II *College Political Systems | *Personal Finance *Computer Science *Computer Science Electives *AVCTC – Computer networking classes |

*+Dual Credit or Dual Enrollment College courses can often be substituted for high school credit. Check with your Counselor.

**Assessments/Certifications:** College Placement Assessments, Compass, ACT, SAT

**Clubs/Extracurricular Activities:** Ask your Counselor what is available at your school.

**Work-Based Learning:** □ After School Employment □ Internship/Mentorship □ Job Shadowing □ Service Learning
<table>
<thead>
<tr>
<th>Pathways</th>
<th>Network Systems</th>
<th>Information Support and Services</th>
<th>Web and Digital Communications</th>
<th>Programming and Software Development</th>
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<td>K &amp; S</td>
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**Cluster Knowledge and Skills**
- Academic Foundations
- Communications
- Problem Solving and Critical Thinking
- Information Technology Applications
- Systems
- Safety, Health and Environmental
- Leadership and Teamwork
- Ethics and Legal Responsibilities
- Employability and Career Development
- Technical Skills

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