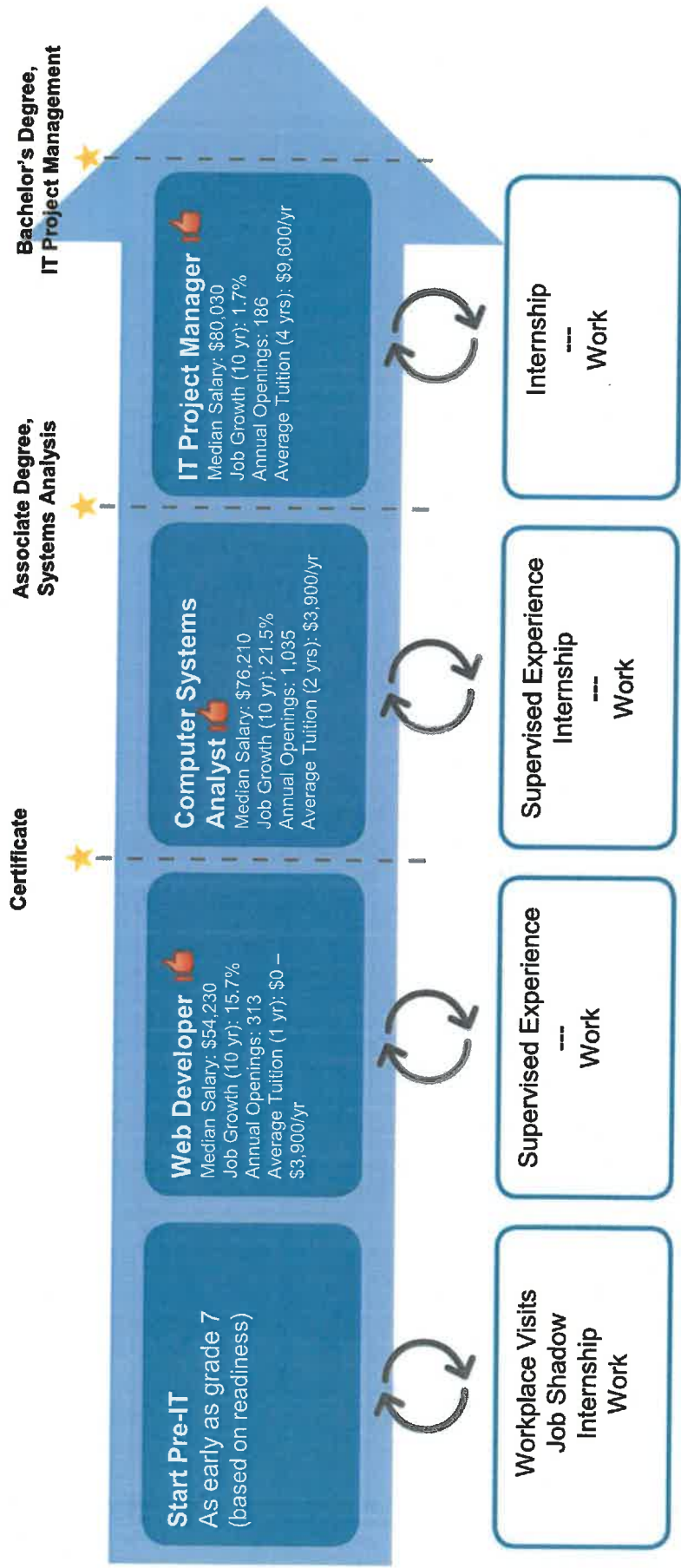


Information Technology Career Pathway



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.



Information Technology Career Pathway

Secondary Pathway: Interactive Media

Postsecondary Program: Interactive Media

An Example of Courses with Secondary and Postsecondary Credits

| | | | | | | | | | |
|---------------|------------------------|----------------------|---------------------------|---------------------|----------------------------------|----------------------------------|-------------------------------|-------------------------------------|-----------------|
| Secondary | 7 | English I | Algebra I | Physical Science | Social Studies | Fine Arts | Information Technology | Web Design | |
| | 8 | English II | Geometry | Biology | World History | Health (.5) PE (.5) | Design Techniques | Interactive Application Development | World Languages |
| | 9 | English III | Algebra II | Chemistry | U.S. History | 3D Techniques | World Languages | | |
| | 10 | English IV | Trigonometry/ Calculus | Physics | U.S. Government | Video & Sound | IT Capstone | | |
| Postsecondary | Year 1 1st Semester | English | College Seminar | Biology | Principles of Interactive Design | Video and Sound Basics | Intro to Computer Design | HTML | |
| | Year 1 2nd Semester | Visual Communication | Storyboarding | Audio Production I | Branding | CSS | Media Graphics & Optimization | Intro to Humanities | |
| | Year 2 1st Semester | Flash I and II | Intro to Sociology | Audio Production II | JavaScript Fundamentals | Content Management & Integration | Statistics | | |
| | Year 2 2nd Semester | Advanced Flash III | Interactive Portfolio | Web Design Creation | Interactive Media Practicum | Creation-Encore | | | |

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.
Course titles and sequences will vary between schools.

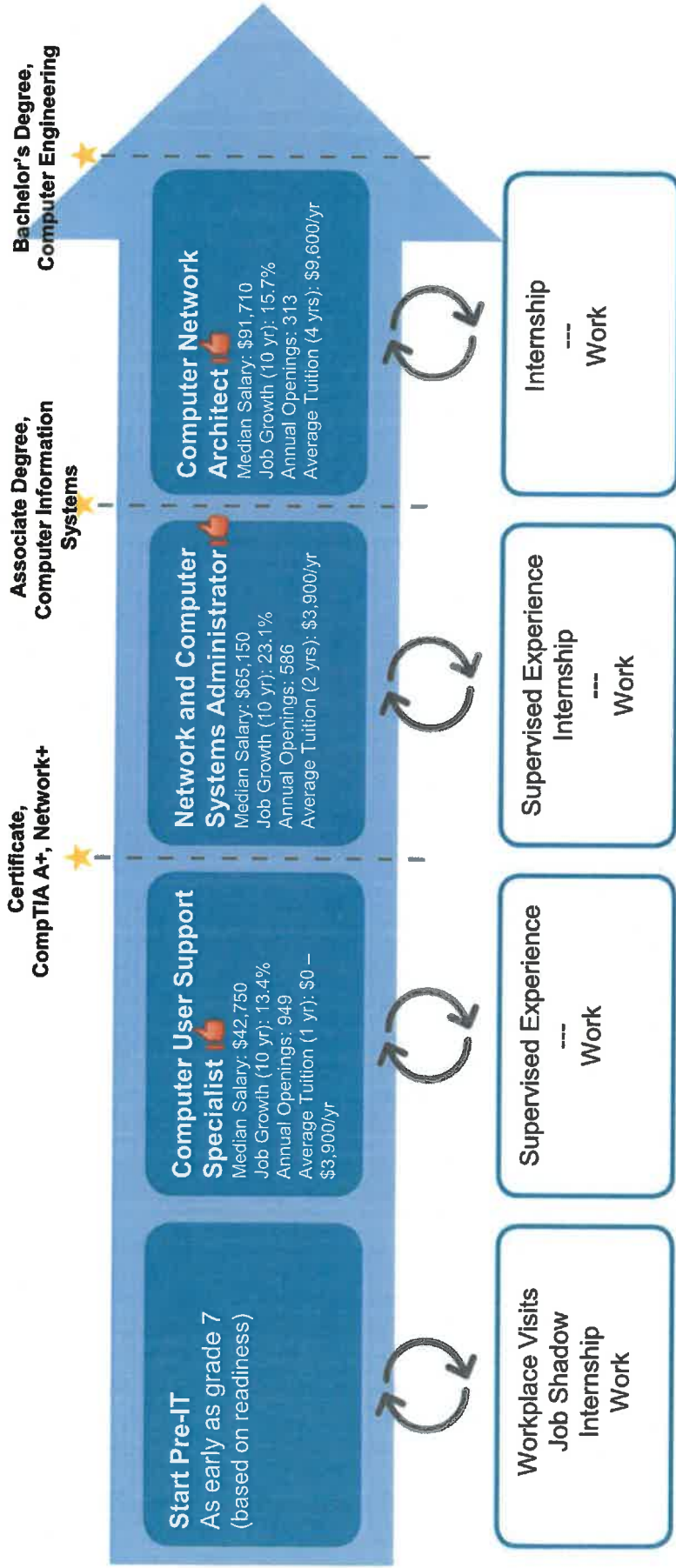
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Information Technology Career Pathway



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Preparing students for multiple options after high school:

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Information Technology Career Pathway

Secondary Pathway: **Network Systems**

Postsecondary Program: **Computer Networking**

An Example of Courses with Secondary and Postsecondary Credits

| Grade | English I | Algebra I | Physical Science | Social Studies | Fine Arts | Information Technology | Networking | World Languages |
|--------------------------------|-------------------------------|---------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|--------------------|-----------------|
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | English II | Geometry | Biology | World History | Health (.5) PE (.5) | Network Operating Systems | Network Management | World Languages |
| 10 | | | | | | | | |
| 11 | English III | Algebra II | Chemistry | U.S. History | Network Security | World Languages | | |
| 12 | English IV | Trigonometry/Calculus | Physics | U.S. Government | Routing & Switching | | | |
| Year 1 1st Semester | Operating Systems & Software | Computer Hardware Support | Cisco I: Networking Technologies | Networking Fundamentals | | | | |
| Year 1 2nd Semester | English | TCP/IP | Cisco II: Basic Router Technologies | Network Administration | | | | |
| Year 2 1st Semester | Intro to Business | Technical Writing | Cisco III: LAN Switching & Wireless | Math | Natural Science Elective | | | |
| Year 2 2nd Semester | Professional Success Strategy | Networking Capstone | Cisco IV: WAN Technologies | Arts & Humanities Elective | Social Science Elective | | | |

High School Career-Technical Education Program Courses

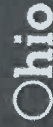
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

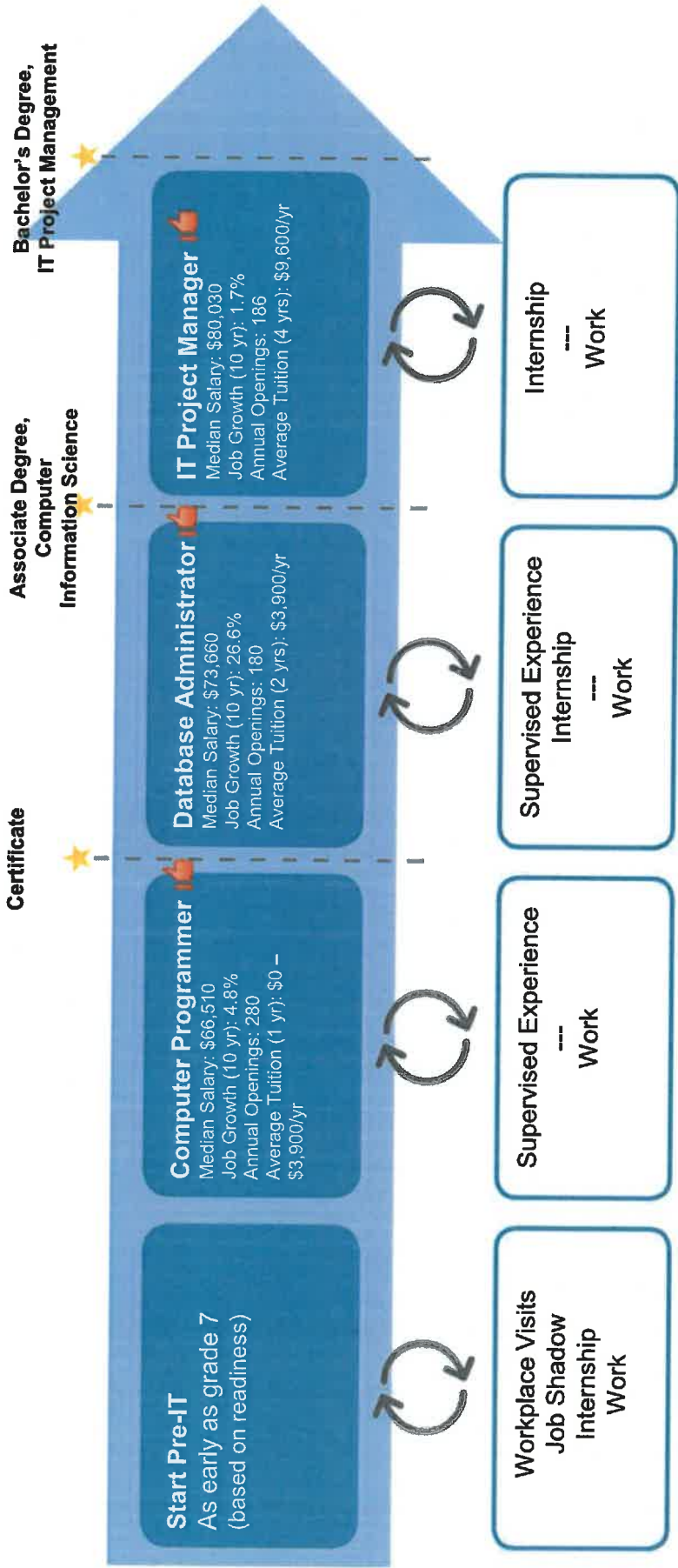
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Information Technology Career Pathway



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Information Technology Career Pathway

Secondary Pathway: Programming and Software Development Postsecondary Program: Programming and Software Development

An Example of Courses with Secondary and Postsecondary Credits

| | | | | | | | | | |
|--|------------------------|-------------------|---------------------------------|-------------------------|----------------------------|-----------------------------------|------------------------------|--------------------|-----------------|
| Secondary | 7 | English I | Algebra I | Physical Science | Social Studies | Fine Arts | Information Technology | Programming | |
| | 8 | English II | Geometry | Biology | World History | Health (.5) PE (.5) | Object Oriented Programming | Visual Programming | World Languages |
| | 9 | English III | Algebra II | Chemistry | U.S. History | Systems Analysis & Design | World Languages | | |
| | 10 | English IV | Trigonometry/Calculus | Physics | U.S. Government | Database Applications Development | | | |
| Postsecondary | 11 | English | College Seminar | Intro to Business | Computer Applications | Computer Programming | Operating Systems & Security | | |
| | 12 | Technical Writing | Math for Information Technology | Internet Programming I | Database | Advanced C++ | | | |
| | Year 1 1st Semester | College Algebra | Visual Basic I | Internet Programming II | Systems Analysis & Design | Natural Science Elective | | | |
| | Year 2 2nd Semester | Communication | Visual Basic II | Java Programming | Arts & Humanities Elective | Social Science Elective | IT Capstone | | |
| High School Career-Technical Education Program Courses | | | | | | | | | |
| High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses | | | | | | | | | |
| Required Courses | | | | | | | | | |
| Recommended Electives | | | | | | | | | |

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

Course titles and sequences will vary between schools.

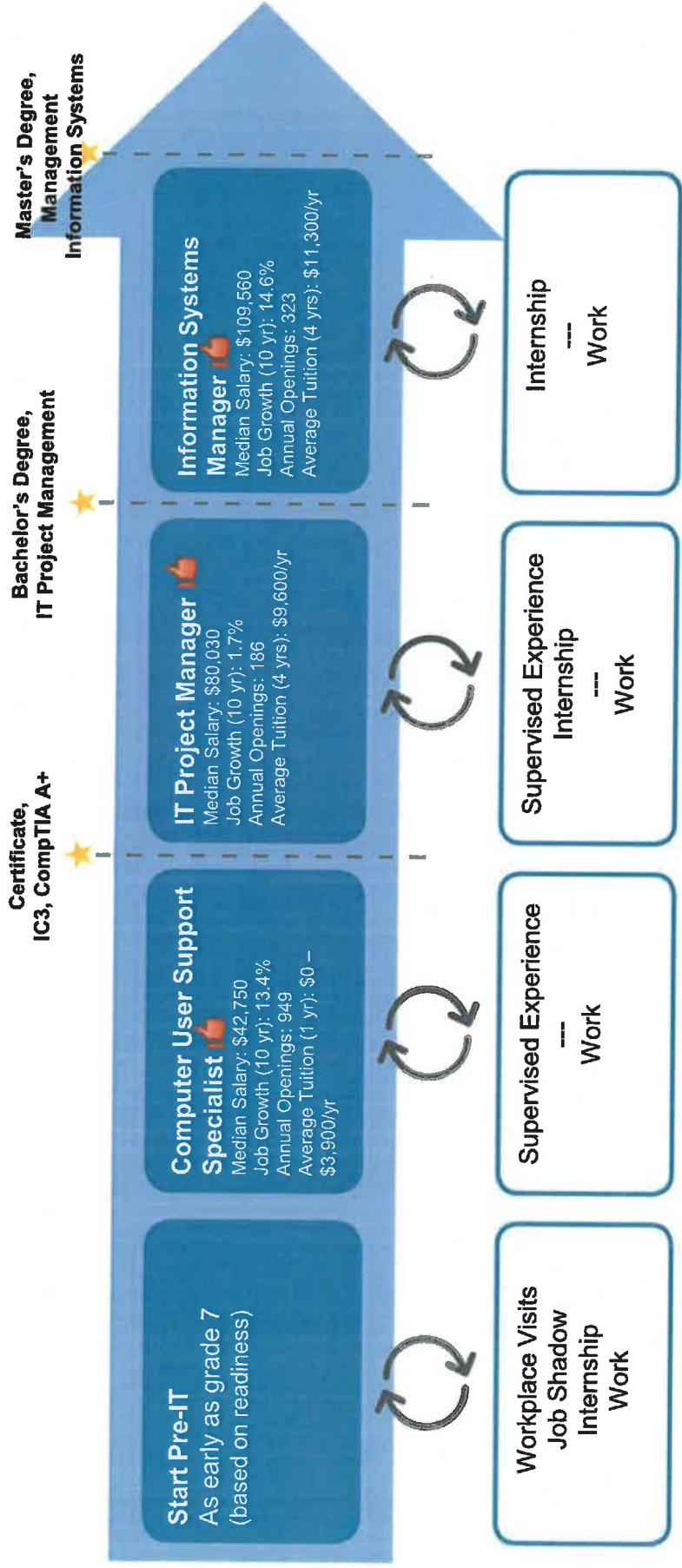
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Information Technology Career Pathway



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Information Technology Career Pathway

Secondary Pathway: Information Services and Support

Postsecondary Program: Computer Science

An Example of Courses with Secondary and Postsecondary Credits

| | | | | | | | | | |
|---------------|------------------------|------------------------|------------------------------|---------------------|--------------------------|----------------------------|---------------------------|--------------------|-----------------|
| Secondary | 7 | English I | Algebra I | Physical Science | Social Studies | Fine Arts | Information Technology | Networking | |
| | 8 | | | | | | | | |
| | 9 | English II | Geometry | Biology | World History | Health (.5) PE (.5) | Network Operating Systems | Network Management | World Languages |
| | 10 | | | | | | | | |
| | 11 | English III | Algebra II | Chemistry | U.S. History | Network Security | World Languages | | |
| | 12 | English IV | Trigonometry/ Calculus | Physics | U.S. Government | Routing & Switching | | | |
| Postsecondary | Year 1 1st Semester | English | College Algebra | College Seminar | Computer Applications | Programming Logic | Humanities Elective | | |
| | Year 1 2nd Semester | Business Communication | Operating Systems | Networking Concepts | Object Oriented Analysis | Visual Basic I | HTML | Systems Analysis | |
| | Year 2 1st Semester | Financial Accounting | Micro-economics | Project Management | Technical Elective | Natural Science Elective | | | |
| | Year 2 2nd Semester | Marketing Principles | Database Systems Programming | IT in Logistics | Computer Science Seminar | Computer Science Practicum | Technical Elective | | |
| | | | | | | | | | |

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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Course titles and sequences will vary between schools.

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