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## TECHNOLOGY

### Tech Prep Certificate Requirements

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Tech Prep students must complete the following high school program of study. The actual sequence of courses will depend on the student's individual interests.

- ◆ **4 Units of Technology**
- ◆ **3 or 4 Units of Math**
- ◆ **3 or 4 Units of Science**
- ◆ **A one-day (3-5 hours) Shadowing Experience**
- ◆ **Portfolio** - The portfolio could include some or all of the following:
 

|                     |             |                            |
|---------------------|-------------|----------------------------|
| Student's best work | Lab Manuals | Presentations and/or video |
| Awards              | Projects    | Shadowing Experiences      |

**Upon completion of these requirements, qualifying seniors will be awarded a Tech Prep Certificate through the Tech Prep office.**

#### Technology Units (Must Complete 4 Units)

|                                             |                                    |
|---------------------------------------------|------------------------------------|
| Architectural Drawing                       | Digital Electronics                |
| Automation and Robotics                     | Electricity/Electronics            |
| *BOCES Computer Repair Technician (2 units) | Engineering Design and Development |
| *BOCES Electricity (2 units)                | Introduction to Engineering Design |
| *BOCES Networking Plus (2 units)            | IS 100 – Intro. To Computers I     |
| *BOCES New Visions Engineering (2 units)    | IS 101 – Intro. To Computers II    |
| Career & Financial Management               | Manufacturing                      |
| Computer Applications                       | Materials Processing               |
| Computer Assisted Drawing (CAD)             | Medical Physics                    |
| Computer Integrated Manufacturing (CIM)     | Principals of Engineering          |
| Computer-Assisted Manufacturing             | Principals of Technology           |
| Construction Systems                        | Production Systems                 |
| Design and Drawing for Production           | Technical Drawing                  |
| Design and Rapid Prototyping                | Transportation Systems             |
| Desktop Publishing                          | Web Page Development               |

*\*New Visions Courses and BOCES Courses are considered 2 units.*

*Note – Courses cannot be used for sequence if used to meet a math or science requirement*

**Tech Prep Certificate with Honors – students completing four (4) units of math and four (4) units of science as well as the other certificate requirements, qualify to receive a “Certificate with Honors.”**