

# Engineering Technologies Academy

## Academy Overview:

- The Engineering Technologies Academy provides a program of study for students who are interested in Engineering, Computer Technology, the Applied Arts and other creative endeavors. The Academy gives students the opportunity to explore functional design as well as aesthetics.

## Academy Pathways:

- The **Engineering Pathway:** This course of study was devised for students with an interest in drafting, architecture, civic engineering, mechanical engineering, and/or robotics.
- The **Computer Science Pathway:** This route was designed for students interested in computer programming, repair, system management and related fields.
- The **Media and Digital Arts Pathway:** This strand was developed for students who are interested in the digital arts, video, web design and animation.
- The **Art and Design Pathway:** This path was created for students who are interested in the visual arts, design fields and art history.

**Academy Certification:** Students will receive a certificate of completion and an official seal on their diploma for completing the required coursework for an academy pathway.

- Pre-Requisites for the Engineering/Architecture pathway:
  - **Tech Exploration (10 credits)**
  - **Design Drafting I (10 credits)**
- Pre-Requisites for the Computer Science pathway:
  - **Tech Exploration (10 credits)**
  - **Systems Management I (10 credits)**
- Pre-Requisites for the Media & Digital Arts and Art & Design pathways:
  - **Beginning Art (10 credits)**
  - **Design I (10 credits)**
- Must select a minimum of 30 credits from within one of the following pathways. (\* Future course offering.)

<u>Engineering</u>	<u>Computer Science</u>	<u>Media &amp; Digital Arts</u>	<u>Art and Design</u>
<ul style="list-style-type: none"> <li>• Design Drafting I, II</li> <li>• Electronics</li> <li>• Systems Management I, II, III</li> <li>• Robotics</li> <li>• Design I</li> <li>• Physics</li> <li>• Architectural Design I, II</li> <li>• CADD</li> <li>• ROP: Introduction to Electrical Engineering*</li> <li>• ROP: Principles of Engineering*</li> <li>• ROP: Robotics*</li> <li>• Academy Internship*</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Programming</li> <li>• AP Computer Science</li> <li>• Web Publishing</li> <li>• Systems Management I-IV</li> <li>• Digital Arts/Photography*</li> <li>• Academy Internship*</li> </ul>	<ul style="list-style-type: none"> <li>• Design I</li> <li>• Digital Arts/Photography*</li> <li>• Web Publishing</li> <li>• Desktop Publishing</li> <li>• Art of Video Production</li> <li>• ROP Video Broadcasting</li> <li>• Animation*</li> <li>• Academy Internship*</li> </ul>	<ul style="list-style-type: none"> <li>• Intro Art History</li> <li>• AP Art History*</li> <li>• Intermediate Art</li> <li>• Advanced Art</li> <li>• Ceramics I, II, III*</li> <li>• Design I, II</li> <li>• AP Studio Art</li> <li>• Design I, II*</li> <li>• Academy Internship*</li> </ul>