



# COMPUTER AIDED DESIGN & DRAFTING

## Share Time Program for High School Junior and Seniors

The Computer Aided Design and Drafting program exposes students to essential concepts and principles of technical drafting and 3D design and animation. Students learn how to transform mechanical and architectural drawings into 3D designs, including buildings, characters and scenes using 3D software. Students create designs and use the 3D printer to produce actual prototypes.

### PROGRAM OVERVIEW

- Technical Drafting
- 3D Design and Animation
- Interpretation of mechanical and architectural designs
- AutoCAD Software
- Autodesk Inventor Software
- Revit Architecture Software
- 3D Studio Max Software
- Advanced Customization
- Photo-realistic 3D graphics
- 3D Printing
- Designing and Manufacturing Parts
- Create Scale Drawings
- Interpret Blue Prints
- Applied Math Concepts
- **HIGH SCHOOL CREDITS EARNED:**
  - Career and Technical Education Program = 20 Credits
- **Students who meet the NOCTI criteria may earn college credits.**

#### Students will be required to:

- Read and comprehend information at the high school level
- Follow multi-step directions
- Utilize visual – spatial skills to interpret designs and animation
- Apply basic math skills to solve problems
- Interpret and create scale drawings and blue prints

**STUDENTS WHO COMPLETED THE COMPUTER AIDED DESIGN AND DRAFTING PROGRAM**  
pursued post-secondary education and/or employment as designers, 3D modelers and animators,  
and blueprint drafters.

**ALL INQUIRIES PERTAINING TO PRE-ADMISSION SHOULD BE SUBMITTED TO**  
**Gina DiDomenico, Student Recruitment and Community Relations**  
**Email: didomenicog@mcvts.org Phone: 973-627-4600 ext.277**