

# AUSTIN O'Brien Catholic High School



## Career and Technology Studies Program



### Goals of our CTS Program

- Students work individually or in small groups to cover theory and complete hands on projects.
- Students work at their own pace
- CTS 10 is used as a basis for students to explore and develop interests and abilities
- CTS 20 and 30 directs emphasis to develop portfolios, skills and abilities towards specific career goals.

### Highlights of the CTS Program

- Get a head start on a career
- Develop transferable skills
- Build a portfolio - Show the skills achieved
- Choose from over a 50 different modules
- Work on real projects for the school or community
- Job Shadow/NAIT Buddy System
- Hands on skills to introduce to RAP Program and dual track at St. Joseph High School Skills Center

# Communication Technology

## Photography

- **Visual Communications**

- Introduction to Elements and Principles of Design

- **Photography**

- Introduction, Exposure, Composition, and Communication
  - Photo Lenses, Photo Lighting, Photojournalism
  - Photo Color Techniques, Black and White Digital Techniques, Portrait Lighting and Outdoor Photography



- **Digital Photography**

- Digital image, composition, manipulation and editing

## Multi Media Design

- **Audio - Sound Editing**

- Basic Audio Arrangments, tracks timelines, etc. to creating and recording songs on band instruments

- **Audio/Video Production**

- Videography basics & techniques to advanced

- **Animation**

- Cell to cell, computer generated basic and advanced

- **Screen Printing T-Shirts**

- One-color to multi-color printing

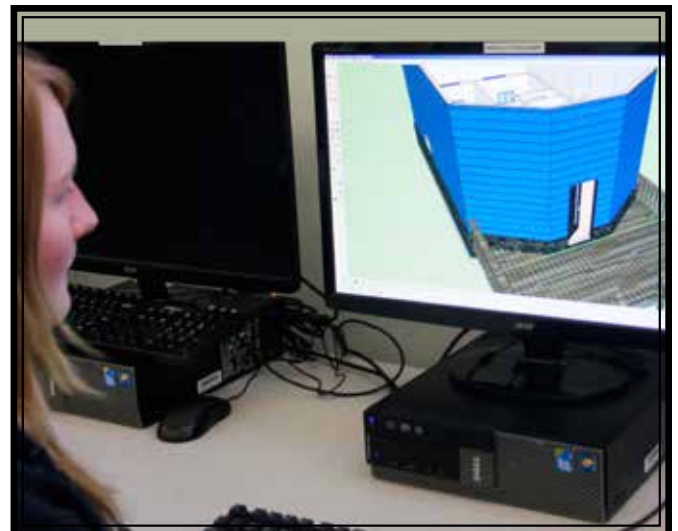
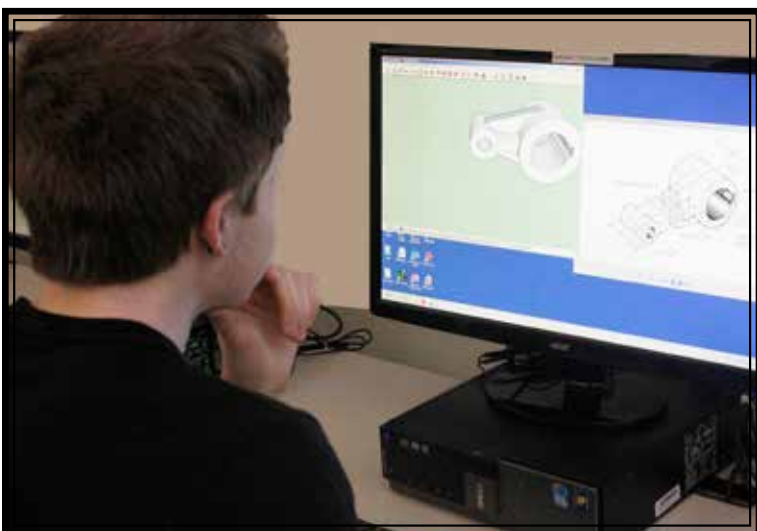
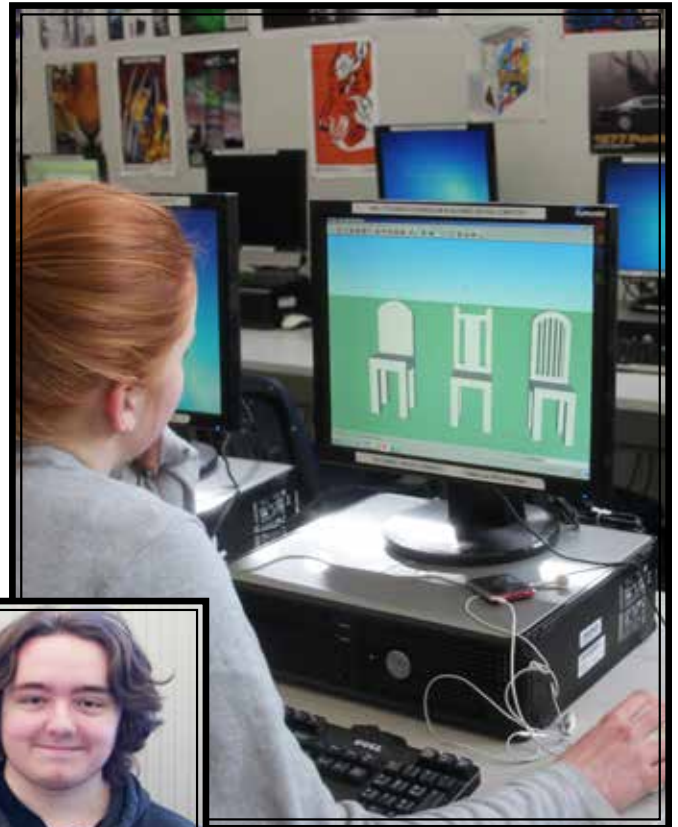
- **Designing a podcast**



# Design

## Computer Assisted Drafting (CAD)

- **Fundamentals of CAD**
- **Developing Intermediate Levels**
  - 2D Drawings
  - 3D Drawings
- **Learning to Solve Design Problems using CAD**
- **Translate Architectural Design concepts into Graphic Images:**
  - Architectural
  - Interior
  - Landscape Designs
- **Design and Develop Interior Spaces**  
**Create Designs that are pleasing:**
  - Ecological
  - Functional
  - Aesthetical



# Construction Technology

## Woodworking/Carpentry & Turning

- Basic Tools and Materials using Safety Practices
- Building - Special Project Management - brainstorm, design & produce a project
- Box Construction - learning basics of simple box construction
- Finishing & Refinishing projects
- Cabinet Making including a door and drawer project
- Solid Stock Construction
- Wood Turning Operations
- Special Woodworking Projects



# Fabrication Studies

## Metal Working and Welding

- Basic Tools and Materials using Safety Practices and creating a simple projects
- Basic Electric Welding
- Semi-Automated/Automated Welding  
Basic welds performed
- Oxyacetylene Welding -  
Learn basic safety, maintenance, of clean and tidy workspace
- Learning the Principles of Machining
- MIG Welding - Gas Metal Arc Welding -  
Basic welds are learned
- Developing and understanding of  
GMAW processes
- Gain experience using GMAW process  
by performing:
  - flat
  - horizontal
  - vertical fillet welds
  - flat groove welds
- Oxyfuel & Plasma Arc Cutting
- Special Metal Working & Welding Projects



# Safety Certification

- HCS 3000 Workplace Safety System
- HCS 3010 Workplace Safety Practices
- AGR 3000 Agricultural Safety
- Job Safety Skills Society - Accredited Certification

## THE GEEKS



These are our AOB Students that want to be apart of the exciting technology crew that creates the sound, creates the lighting, the camera and video camera effects for our Austin O'Brien celebrations, open house, annual drama production, AOB Graduation and many more situations.

### ***Principal's Quote***

*"The options available in our Communication, Design, Construction and Fabrication labs allow our students the greatest real world examples of job scenarios and production requirements. The skills that the students learn in our labs are practical and transferable and as a result, engaging and meaningful!*

*We provide students with a chance to see what entrepreneurial activities look like as they explore their creative side and express their ideas and designs in print, wood, metal and through other media. Our Career and Technology Studies Program at AOB allows students to work in another facet of their education, alongside their academics, to enhance their learning experiences and live their education in this unique hands-on environment.*

*Mr. D. Warawa*

### ***Teacher's Quote***

*"I am so very proud to be a part of a thriving CTS facility that offers over fifty individualized courses for students to choose from. Our CTS facility offers students many opportunities, skills and a gateway to career paths. Students learn theory and get first hand experiences to many occupational areas by developing basic skills that are required in industry. "*

*Mr. M. Poulin*

For Further Information  
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