



University of Windsor

Technology, Construction &  
Manufacturing Design

**thrive.**



# Agenda.

- **Introduction**
- **Careers in Technology, Construction & Manufacturing Design**
- **Faculty of Engineering**
- **School of Computer Science**
- **Visual Arts & the Built Environment**
- **Next Steps**





An aerial photograph of a university campus. The image shows several brick buildings, green trees, and a paved walkway. A large, semi-transparent blue octagonal shape is overlaid in the center of the image. Inside this shape, the text "Careers in Technology, Construction & Manufacturing Design" is written in a bold, yellow, serif font. The text is arranged in four lines, centered within the octagon. The background of the image shows a mix of traditional brick architecture and modern glass-walled structures. The sky is not visible, as the buildings and trees fill the frame.

# Careers in Technology, Construction & Manufacturing Design





# You may be interested in this category if...

- **You can be described as:**
  - Good at visualizing possibilities
  - Innovative and creative
  - Precise and accurate
  - Detail-oriented
- **You enjoy activities like:**
  - Building
  - Designing
  - Planning
  - Developing
  - Maintaining
  - Researching
  - Solving



# You may want to consider a career in...

- **Engineering**
- **Information Technology**
- **Architecture**



# Meet a UWindsor alumni



- **Ali Al-Aasm the co-founder of Red-Piston.**
- **This company builds mobile applications and games, designs and develops websites, and dabbles in augmented and virtual reality.**





# Faculty of Engineering



# What programs are in the Faculty of Engineering?

- **Civil Engineering**
- **Electrical Engineering**
- **Environmental Engineering**
- **Industrial Engineering**
- **Mechanical Engineering**





# What high school courses should I take?

- **Course Requirements:**

- Grade 12 Advanced Functions/MHF4U
- Grade 12 Chemistry/SCH4U
- Grade 12 Physics/SPH4U
- Grade 12 English/ENG4U

- ***Strongly Recommended:***

- Grade 12 Calculus & Vectors/MCV4U





# Why might I want to pursue a degree in Engineering?

- Involved in ***all*** aspects of the modern world – including those things that excite you!
- Solve the technical problems of society and the global environment and develop skills that you will use in all aspects of your life.
- Lead change that will have far-reaching impacts beyond your neighbourhood, city, province, country, planet... get the picture?





An aerial photograph of a university campus. A large, semi-transparent blue octagonal shape is centered over the image. Inside this shape, the text "School of Computer Science" is written in a bold, yellow, serif font. The background shows various university buildings, including a brick building with arched windows on the left and a modern building with a glass facade on the right. There are also green trees and a paved walkway with a bench and some people in the foreground.

# School of Computer Science





# What programs are in the School of Computer Science?

- **Applied Computing**
- **Computer Information Systems**
- **Software Engineering**



# What high school courses should I take?

- **Course Requirements:**

- Grade 12 Advanced Functions/MHF4U
- Grade 12 English/ENG4U

- **Strongly Recommended:**

- Grade 12 Calculus & Vectors/MCV4U





# Why might I want to pursue a degree in Computer Science?

- A career in the technology industry or in research and academia
- In-depth understanding of the fundamentals of computer science and exposure to the latest tools and technology
- Drives innovation in the sciences where creative and wide-ranging computing applications enable rewarding and challenging possibilities
- Other?





An aerial photograph of a university campus. The image shows several buildings, including a large brick building on the left and a modern building with a glass facade on the right. There are trees, a paved walkway, and a bench. A large, semi-transparent blue octagonal shape is overlaid in the center of the image, containing the title text in a yellow, serif font.

# Visual Arts & the Built Environment





# What is Visual Arts & the Built Environment (VABE)?

- Approaching design of the built environment as artists and architects
- Collaborative program between University of Windsor's School of Creative Arts and University of Detroit Mercy



# What high school courses should I take?

- **Course Requirements:**

- Grade 12 Physics/SPH4U
- Grade 12 Advanced Functions/MHF4U
- Grade 12 English/ENG4U

- **Recommended:**

- Grade 12 Calculus & Vectors/MCV4U





# Why might I want to pursue a degree in VABE?

- Learn to examine the built environment from the perspective of aesthetics, creativity, social culture, construction, utility, meaning, and history

