Mechanical & Industrial Engineering Course and Option Talk - Manufacturing
Manufacturing, Mechanics and Design

- Design of virtually every product
- Create manufacturing processes and equipment
- Biomechanics as related to medicine and dentistry
- Many fields of graduate research
Manufacturing

• What is Manufacturing?
  The transformation of materials and information (technology) into useful products for human beings

• Manufacturing Fields
  – Fundamental Technology
  – Automation
  – Manufacturing Management (Logistics)
Canada’s Economy

GDP ($1.8 trillion)
# 3rd Year Curriculum Overview

## FALL
- MIE301: Kinematics and Dynamics of Machines
- MIE312: Fluid Mechanics I
- MIE342: Circuits with Applications to Mechanical Engineering Systems
- MIE258: Engineering Economics and Accounting
- Natural science requirement

## WINTER
- MIE315: Design for the Environment
- MIE313: Heat and Mass Transfer
- MIE334: Numerical Methods I
- Two stream option courses
4th Year Curriculum Overview

FALL
- MIE491: Capstone Design
- Two stream option courses
- One Technical Elective
- Other: HSS or CS Elective

WINTER
- MIE491: Capstone Design
- MIE519: Advanced Manufacturing
- Three Technical Elective courses
- Other: HSS or CS Elective
Career Opportunities

Employment opportunities exist over a wide range of International and Canadian industry:

- Automotive
- Microelectronics
- Aviation
- Robotics
- Small to Medium Business

For example:
Bombardier, Celestica, General Electric of Canada, General Motors of Canada, Honda of Canada Manufacturing, Motorola Canada, Northern Telecom, Procter and Gamble Canada, Toyota Canada
Manufacturing
Good Luck