# Bachelor of Science in Mechanical Engineering/Tentative Curriculum*

**FRESHMAN YEAR**

**First Quarter**
- **MATH** Calculus I
- **CHEM** General Chemistry for Engineers
- **ENGR** Innovation in Engineering
- **PHIL** Introduction to Logic

**Second Quarter**
- **MATH** Calculus II
- **CHEM** General Chemistry for Engineers
- **ENGR** Engineering Graphics
- **HIST** World Civilizations III

**Third Quarter**
- **MATH** Calculus III
- **CHEM** General Chemistry for Engineers
- **BIOL** Introduction to Biology
- **ENGL** English Composition

**SOPHOMORE YEAR**

**Fourth Quarter**
- **MATH** Calculus IV
- **PHYS** Physics for Engineers
- **ENGR** Statics
- **HIST** World Civilizations II

**Fifth Quarter**
- **MATH** Linear Algebra
- **PHYS** Physics for Engineers
- **ENGR** Dynamics
- **ECON** Principles of Macroeconomics

**Sixth Quarter**
- **MATH** Differential Equations
- **PHYS** Physics for Engineers
- **ENGR** Mechanics of Materials
- **ENGR** Computing for Engineers

**JUNIOR YEAR**

**Fifth Semester**
- **E E** Intro to Electrical Circuits
- **M E** Fundamentals of Thermodynamics
- **M E** Fluid Dynamics
- **M E** Engineering Analysis
- **M E [M]** Systems Design
- **MSE** Materials Science

**Sixth Semester**
- **M E** Thermal & Fluids Lab
- **M E** Manufacturing Processes
- **M E** Manufacturing Processes Lab
- **M E** Dynamic Systems
- **M E** Heat Transfer
- **M E** Machine Design

**SENIOR YEAR**

**Seventh Semester**
- **M E** Mechatronics
- **M E** Thermal Systems Design
- Technical Elective (1)
- Technical Elective (2)
- Intercultural Course *(GER Tier II)*

**Eighth Semester**
- **M E [M]** Experimental Design
- **M E** Mechanical Systems Design
- Technical Elective (1)
- **Engl** Technical Report Writing *(GER Tier II)*
- Humanities or social sciences *(GER Tier III)*

(1) Technical Elective in M E or MSE.
   (MSE 440 excluded).

(2) C E 463, Cpt S 430, Cpt S 445 or 300/400-level
   Math or Stat.

* Example; curriculum may change.

This is for the WSU Vancouver Engineering and Science Institute program only! Students planning on transferring to a different institution should take the traditional classes at Clark or LCC.

**UNDERGRADUATE COST 2004-2005 (estimate)**

Freshman- and sophomore-level tuition (Quarter system):
- **WA State Resident:**
  - Clark College: $2,572/year
  - Lower Columbia College: $2,421/year
- **Non-Resident:**
  - Clark College: $3,166/year
  - Lower Columbia College: $2,844/year

Junior- and senior-level tuition (Semester system):
- **WSU Vancouver**:
  - **WA State Resident:** $5,154/year
  - **Non-Resident:** $13,572/year

*05/26/04*