

# Mechanical Engineering

College of Engineering and Architecture  
School of Engineering and Computer Science Vancouver

## Description

The mechanical engineering program is concerned with:

- ◆ the use and economical conversion of energy from natural sources into other useful energy to provide power, light, heat, cooling and transportation,
- ◆ the design and production of machines to lighten the burden of human work,
- ◆ the creative planning, development and operation of systems for using energy, machines, and resources, and
- ◆ the processing of materials into products useful to people.

## Sample Courses

Courses include engineering graphics, statics, dynamics, strengths of materials, computer programming, thermodynamics, fluid dynamics, instruments and measurements, introduction to engineering materials, engineering analysis, introduction to design and manufacturing, design process, dynamic systems, heat transfer, machine design, thermal system designs, a one-year team project for a local industry, and option areas in micro/nano technology, design and manufacturing, and mechatronics (robotics and automation).

## Career Opportunities

- ◆ Design engineer for manufacturing equipment or processes
- ◆ Design engineer for integrated automation systems
- ◆ Quality assurance engineer
- ◆ Production design engineer
- ◆ Tool design engineer
- ◆ Production management

## Financial Aid and Scholarships

There are many ways to put a WSU education within your financial reach. Go to [www.vancouver.wsu.edu/ss/fabase.htm](http://www.vancouver.wsu.edu/ss/fabase.htm) or call 360-546-9559 to find information about the financial aid programs in which WSU participates, scholarship and event information, and links to other useful financial home pages and online services.

## Apply

Freshman and transfer students are encouraged to apply by the general University admissions priority deadlines:

- ◆ January 31st for Fall Semester or Summer
- ◆ October 1st for Spring Semester

Apply online at:  
[www.vancouver.wsu.edu/ads/apply.htm](http://www.vancouver.wsu.edu/ads/apply.htm)

## More Info

Explore the School of Engineering and Computer Science website at: [www.vancouver.wsu.edu/encs/](http://www.vancouver.wsu.edu/encs/)

Academic Coordinator:  
360-546-9638