

ALBERT A. HOPEMAN, JR. SCHOOL OF SCIENCE, ENGINEERING AND MATHEMATICS

**DEPARTMENT FACULTY**

Blair T. Allison, Ph.D., P.E.

*Professor of Mechanical Engineering*

Erik J. Anderson, Ph.D.

*Professor of Mechanical Engineering*

Mark Archibald, Ph.D.

*Professor of Mechanical Engineering*

Erik R. Bardy, Ph.D.

*Professor of Mechanical Engineering*

Michelle A. Clauss '83, Ph.D.

*Professor of Mechanical Engineering*

John M. Dixon '05, Ph.D.

*Assistant Professor of Mechanical Engineering*

Mark C. Fair '85, Ph.D.

*Professor of Mechanical Engineering and Physics*

Mark Reuber, Ph.D., P.E.

*Field Director for the Office of International Education and Professor of Mechanical Engineering*

George A. Richards, Ph.D.

*Associate Professor of Mechanical Engineering*

Vern W. Ulrich, Ph.D., P.E.

*Professor of Mechanical Engineering*

The mechanical engineering program at Grove City College has given me the tools to expand and utilize my engineering skill set. As a result, I know that I am prepared to enter my vocation with excellence for the glory of God.

– Jake Wassenaar '13

**DEPARTMENT DESCRIPTION**

Mechanical Engineering is a broad discipline that develops technological solutions to societal problems in order to benefit mankind. Graduates apply their skills to a vast array of areas including but not limited to renewable energy systems, medical devices, fuel efficient automobiles and building climate control systems.

**MAJOR****Mechanical Engineering**

The Bachelor of Science degree in mechanical engineering prepares students for graduate work and employment in engineering research, design, manufacturing, production, sales and management. Students complete 100 hours of course requirements in addition to the College core curriculum, which starts with an exposure to the fundamentals of science and engineering and culminates in a capstone design project.

**MINORS****Robotics**

The field of robotics is developing rapidly and Grove City is excited to be devoting important resources to the development of this discipline. Students complete 19-20 hours of course requirements (no additional credits are required; students take alternate classes to fulfill mechanical engineering requirements). Courses feature hands-on learning experiences, practical design and programming courses.

**Chemical Engineering**

Students complete 19-20 hours of course requirements from the fundamental level through separation processes in chemical engineering applications (only 3 additional credits are required beyond the normal mechanical engineering requirements).

**ACCREDITATION**

The mechanical engineering program at Grove City College is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

**STUDY ABROAD OPPORTUNITIES**

Approximately 1/3 of all mechanical engineering students study at the College's European Study Center in Nantes, France during the fall semester of their junior year (limited enrollment). Short-term international study options are also available for mechanical engineering majors during January/May intersessions.

**UNDERGRADUATE RESEARCH OPPORTUNITIES**

Opportunities exist for students to become involved in research during the school year and summer. Current research areas include alternative energies, biomimetic propulsion, experimental fluid dynamics, light alternative vehicles, biomedical instrumentation, control systems, electrostatics applied in the food drying industry, and more.

**ON-CAMPUS ENGINEERING ORGANIZATIONS**

The American Society of Mechanical Engineers, American Society of Heating, Refrigerating and Air Conditioning Engineers, Society of Automotive Engineers and the Society of Women Engineers are active groups on campus.

**INTERNSHIPS**

Students are encouraged to participate in industry and/or research internships during summers and breaks. Faculty and the College's Career Services Office can assist students in the process of applying for these experiences.

**CAREER AND GRADUATION OPPORTUNITIES**

Graduates enjoy a wide variety of employment opportunities and have been hired by companies such as Bechtel Plant Machinery, General Electric, Honda R&D Americas, Northrop Grumman, Rolls Royce Nuclear Services, Toyota Motor Engineering & Manufacturing and Westinghouse Electric Company. Many of our students have gone to graduate schools such as MIT, Princeton, Notre Dame and Penn State.



Michelle A. Clauss, Ph.D.  
Department Chair,  
Professor of Mechanical Engineering  
724-458-2037 | [maclauss@gcc.edu](mailto:maclauss@gcc.edu)  
100 Campus Drive, Box 3053  
Grove City, Pennsylvania 16127