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Chairpersons

Hemant Pendse
Chemical Engineering and Biological
Engineering
Pulp and Paper Technology

Eric Landis
Civil and Environmental Engineering

Mohamad Musavi
Electrical and Computer Engineering

David Batuski
Engineering Physics

Scott Dunning, Director
Engineering Technology

Michael Worboys
Information Systems Engineering

Mohsen Shahinpoor
Mechanical Engineering

Degree Programs

B.S. Biological Engineering
B.S. Chemical Engineering
B.S. Civil Engineering
B.S. Computer Engineering
B.S. Electrical Engineering
B.S. Engineering Physics
B.S. Mechanical Engineering
B.S. Pulp and Paper Technology

School of Engineering Technology

B.S. Construction Management Technology
B.S. Electrical Engineering Technology
B.S. Mechanical Engineering Technology
B.S. Surveying Engineering Technology

General Information

The engineering profession produces much of the world in which we live. From buildings to automobiles, from roads to television, from spacecraft to electricity supply, and from clean water supplies to computers, the results of engineering are everywhere. Engineers, whose art produces the kind of living we enjoy, use a combination of creative ideas, mathematics, and science in their interesting and rewarding work.

If you are interested in science and mathematics, have an interest in helping people live better, are curious about how things work and how to make them work better, then you possess some of the important traits of engineers. Depending on the specialty you choose, you may spend time outdoors or in an office using a computer for design and other applications, or work for yourself or with many other professionals in a large company. These are just a few of the myriad of possibilities in the field of engineering.

The college also offers Bachelor of Science degree programs in Engineering Technology, curricula which place less emphasis on design and theoretical principles, but stress the application of engineering practice and the implementation of technological advances for the benefit of humanity. Engineering technology education focuses primarily on analyzing, applying, implementing, and improving existing technologies and is aimed at preparing graduates for the practice of engineering closest to the product improvement, manufacturing, and engineering operational functions.

The college also offers graduate study leading to Master of Science and Doctor of Philosophy degrees.

Career Opportunities

Engineering careers cover every modern technological endeavor from design of bridges and transportation systems through air and water pollution abatement to design of computer chips, automobiles, and spacecraft. See our brochures on individual programs for careers in the engineering field which most interests you.

Admission Requirements

Students entering the College of Engineering may designate an intended major upon entering or may be listed as an undeclared major. In general, most students benefit from selecting a major upon entry. Designating an intended major helps to focus course selection and academic advising, but in no way does it restrict later freedom of choice; students are free to change their major at any time.

Admission Requirements (continued)

Admission criteria for direct entry into engineering programs by high school graduates include SAT verbal and mathematics scores, class rank, and high school recommendation. Non-traditional students who have experience beyond high school should contact the college for an assessment of their entry qualifications.

Formal entrance requirements for the College of Engineering are the same as those for admission to the University of Maine. However, beyond these requirements, the faculty of the college informally offer the following recommendations: 1) take four years of mathematics, including a course in the senior year; mathematics is important in all aspects of engineering and failure to maintain mathematical skills during the senior year often results in poor performance and curriculum delays at the university; 2) take at least three years of high school science, including chemistry and physics and one year of computer science; 3) take at least two years of a single foreign language (or American Sign Language (ASL) may be used to satisfy the foreign language requirement for admission); and, 4) take every opportunity, both in formal classes and outside them, to develop excellent writing and speaking skills.

The Student Body

The College of Engineering has approximately 1,100 students working toward Bachelor of Science degrees. Their average combined SAT score is over 1200 and the majority graduated in the top 20% of their high school class. In addition, about 150 graduate students are studying and doing research leading to Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) degrees. Students and faculty work together on projects at all stages of a student's progress through the college. Undergraduates can participate in research within their major and can complete cooperative work experience as part of their academic program.

Academic Programs 2008-2009

Please refer to the web site (<http://factsheets.umaine.edu/>) for the most updated version of the fact sheets.

This fact sheet is intended for informational purposes only and is subject to change.