RESOURCES TO SUPPORT YOUR FUTURE PROFESSIONAL DEVELOPMENT

ENGINEERING ADVISORS
Office of Academic Affairs 313-577-3040
1513 Engineering Development Center
Each engineering program has a dedicated academic advisor. If you do not know who your advisor is, contact the Office of Academic Affairs.

BUSINESS ADMINISTRATION STUDENT SERVICES OFFICE
200 Prentis Hall 313-577-4505

COLLEGE OF EDUCATION ACADEMIC SERVICES OFFICE
489 Education Building 313-577-1601

ENGINEERING VENTURES CHAIR
Nancy Philippart philippartn@gmail.com
Engineering Development Center 313-577-

PRE-LAW ADVISOR
Arnelle Douglas arnelle.douglas@wayne.edu
University Advising Center 313-577-2680

PRE-MEDICINE ADVISOR
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CAREER SERVICES OFFICE
1001 Faculty/Administration Building 313-577-3390
Engineering is an ancient profession – one that has moved civilization and society forward in many ways over thousands of years. The highway system of ancient Rome – Henry Ford’s modern assembly line – the digital computer – wireless communication – the heart/lung bypass system. All of these engineering advances had a tremendous impact on society and still affect our lives today. The study of engineering prepares students to be one of the next generation of problem solvers – developing alternative systems of energy, biomedical advances, novel transportation systems, and ideas that we cannot even imagine at this time.

Studying engineering prepares students for engineering practice – and even more. The problem-solving, team work, and technological knowledge and experience gained through an engineering program provide a foundation for all future endeavors. Engineering is an ideal professional degree – whether a student’s intended profession is medicine, law, business, teaching, or (of course) engineering. This brochure describes just some of the options that engineering students can pursue after graduation.

Engineering

Design, analysis, program management – engineers are the foundation of product development, systems analysis, and all areas of industry. Engineering is a global enterprise – with a significant portion of the creative activities being undertaken in the US. Opportunities in engineering are expanding across the country. Many engineering projects today require an interdisciplinary focus – emphasizing the need for teamwork and, in many cases, advanced study. Graduates of accredited engineering programs, such as at Wayne State, have the opportunity to pursue advanced degrees and seek professional licensure. Along with continued professional development, these activities result in engineers who continue to push the boundaries of technology and serve the needs of society.

Business

The foundation of a successful business is problem solving – the ability to assess and adapt to changing conditions. The business need not be related to engineering to benefit from an engineer’s perspective. When a technical background is combined with knowledge of management, finance, or marketing, the sky is the limit. Many engineering graduates have found great success in the world of finance. Others have reached the highest echelons of management in Fortune 500 companies. Engineering students have the option of pursuing a minor in business, which will pave the way to more advanced business studies. Entrance into an MBA program requires foundational business courses taken either in advance or after admission. For information on the business minor or MBA program, contact the School of Business Student Services Office.

Education

As the world’s economy becomes more dependent on technology, it is imperative that children are introduced to math, science, computers, and engineering at an earlier age. Engineering is not only an important subject on its own – but it provides the real world foundation that allows students to understand the relevance and importance of science and mathematics. Engineers with an interest in teaching are highly sought after by private and public schools alike. A teaching certificate can be earned through graduate education following an undergraduate degree in engineering. Students interested in the using engineering to assist the next generation should meet with an advisor in the College of Education.

Entrepreneurship

Some individuals dream not of being a cog in a larger machine but the entire powertrain behind an idea – these are born entrepreneurs. Bill Gates, Dean Kamen, Jim Anderson – these are just a few examples of engineers who have gone on to success as entrepreneurs (some of them WSU engineering alumni!). Whether a new widget or a novel system to improve a process or society, engineers often generate and develop the ideas that can be the foundation of a successful new company. The new Engineering Ventures Program at Wayne State is being developed to provide an environment and education that will allow engineers to take their ideas forward – leading to limitless opportunities.

Law

Law firms around the world are in search of associates and partners that can bring an engineering background to the practice of law. Patent law, environmental law, product liability – these and many more areas can benefit from the technical expertise and problem-solving abilities of engineers. There are no specific course requirements to apply to law school, so engineering students can develop a program that satisfies their technical degree requirements and meets their own personal goals. The LSAT assesses a potential student’s aptitude to study law rather than knowledge of the field, focusing on reading comprehension and critical thinking. The latter is of course a strength of engineers. Students interested in law school should meet with the University’s pre-law advisor.

Medicine

Technological advances, team-based medicine, problem solving in diagnosing diseases and developing treatments – the skills important to engineering support the practice of clinical medicine. An engineering degree also makes a student stand out from other applicants – demonstrating a strong work ethic and high academic performance. Students interested in the medical applications of engineering and who want to prepare for medical school can also get involved with biomedical engineering research early in their undergraduate studies. For more information, refer to our brochure “Engineering as a Pre-Med Major.”