CREATE. DISCOVER.
FOLLOW YOUR PASSION.
WHY ENGINEERING AT IIT ARMOUR?

Five Departments.
One Distinctive Educational Experience.

DEPARTMENT OF BIOMEDICAL ENGINEERING
- Degree programs in cell and tissue engineering, medical imaging, and neural engineering

These are exciting times for biomedical engineering and for Illinois Tech’s Department of Biomedical Engineering. We have developed new research and teaching facilities, our faculty are on the forefront of research in the field, and we are continuing to grow our undergraduate program. We are attracting an exceptional group of undergraduates interested in the application of engineering and mathematics to biology and clinical medicine. In your sophomore year, you decide which of three BME tracks you want to pursue (cell and tissue engineering, medical imaging, or neural engineering)—each of which integrates different aspects of traditional engineering fields with medical science.

DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING
- Degree program in chemical engineering

Illinois Tech’s Department of Chemical and Biological Engineering—established in 1901—was one of the first chemical engineering programs in the country. Today, it also continues to be one of the most innovative programs on the leading edge of relevance to society and industry. For example, to respond to emerging industry changes, the department has expanded its curriculum to introduce biology modules in course and laboratory instruction. Our students and faculty look at the world through a different lens—and are working on projects that will impact cities and communities across the globe.

DEPARTMENT OF CIVIL, ARCHITECTURAL, AND ENVIRONMENTAL ENGINEERING
- Degree programs in civil engineering, architectural engineering, and engineering management
- Certificate in engineering graphics and CAD curriculum
- Concentration in environmental engineering

Armour has a hundred-year-long tradition of educating civil engineers who are stewards of the systems that are the foundation of human environment. These include building systems; transportation systems for roads, rail, waterways, and airways; water supply and treatment systems; and air protection systems. You will take many of the same courses as other engineers and combine them with classes such as Financial Accounting and Reporting, Operations Management, and Introduction to Marketing. You will become an engineer with an entrepreneurial outlook and management expertise—and an Illinois Tech graduate who is valued by employers around the world.
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

- Degree programs in electrical engineering and computer engineering
- Dual-degree program in electrical and computer engineering

Join the ECE faculty, students, and alumni who are changing the world through their initiatives and research in such areas as alternative energy resources, communications, medical imaging, and computer hardware and software. Our tradition of innovation dates back to 1906, when IIT faculty member Lee DeForest invented the first vacuum tube capable of amplifying an electrical signal. Another exemplary technical leader was Martin Cooper (EE ’50, M.S. ’57), who invented the cellular phone and continues to be a pioneer in the development of wireless communication. Today, our lab-intensive curriculum gives you the hands-on experience and skills you need to move these and emerging technologies forward.
DEPARTMENT OF MECHANICAL, MATERIALS, AND AEROSPACE ENGINEERING

- Degree programs in mechanical engineering, materials science and engineering, and aerospace engineering

Our three bachelor’s degree programs expose you to an interdisciplinary context, which is ideal for industrial production and research enterprises. By weaving design and communications throughout our curriculum, we have created a culture of excellence that has resulted in several of our alumni becoming members of the National Academy of Engineering—one of the highest professional honors an engineer can receive. Our students often choose to deepen their interests in engineering through robotics, fluid dynamics, design, materials science, green energy, transportation, biomechanics, and space systems.

DISTINCTIVE EDUCATION

At Armour College, we integrate innovative thought, entrepreneurship, creativity and design with engineering theory, research, and practice. You will get the chance to work on projects that are normally only open to graduate students—and have the opportunity to apply what you have learned in the classroom to some of the most complex problems facing society today.

**IIT Engineering Themes**

We enhance our College’s already strong curriculum with lecture series, forums, interactive problem solving, professional site exploration, and team-intensive engineering projects focusing on four themes: water, health energy and security. As you take part in these theme opportunities, your activity is tracked in your own personal online portfolio for use as a supplement to your resume or as additional material for your application to graduate school.

Having a complete understanding of the research and development process will also help ensure a student’s success after their undergraduate education. Our Armour R&D Program includes two programs: Program for Undergraduate Research Education (PURE), which focuses on research, and Mentored INovation and Development (MIND), which focuses on developing research-based technology. Both programs aim to give undergraduate students a hands-on experience with research and development that is unique to Armour College.

All Distinctive Education programs are designed to give students a competitive edge and tangible experience in global issues. Be confident in the fact that when you graduate from IIT Armour College of Engineering, you are already working on relevant and impactful solutions.
WE ARE EDUCATING THE ENGINEERS OF THE FUTURE.

Distinctive and relevant engineering education at Armour College of Engineering prepares students to be leaders in the development and use of multidisciplinary approaches and technology to solve complex, socially critical problems. Leadership, entrepreneurship, and ethics are built into the curricula and various enrichment educational programs offered, including the opportunity to conduct research and development as an undergraduate student.

The Armour R&D program provides undergraduates the opportunity to conduct research and development in labs with faculty mentors. Armour R&D includes the Program for Undergraduate Research Education (PURE), which focuses on research and Mentored INnovation and Development (MIND), which focuses on developing research-based technology. Both programs give undergraduate students a hands-on experience that is unique to Armour College.

The IIT Engineering Themes program identifies four areas that are of international priority and are consistent with strengths of Armour College: water, health, energy, and security. While learning the fundamentals of engineering in the classroom, students can explore these specific themes by applying their technical knowledge to the solution of real problems in real-time.

Illinois Tech’s signature, collaborative program, IPRO, is one of our interdisciplinary educational experiences offered at the University, which prepare students to be entrepreneurial, innovative, and creative.

Reinforced by the opportunity to apply ongoing learning to current problems of global impact, engineering students at Illinois Tech are being prepared to make a contribution on day one, and a continuing impact throughout their careers.

Armour graduates are creative and ethically minded world citizens who are empowered to look at all sides of an issue. We educate engineers who push the envelope and ask, “why not?”

Join us for a remarkable journey.

NATACHA DePAOLA
Carol and Ed Kaplan Armour College Dean of Engineering
EXPLORE.  SPECIALIZE.  BE BOLD.

For more information, visit our website, engineering.iit.edu