**BE IT ALL STEM EDUCATION.**

**Illinois Tech** is a small, private university that educates students to go on to do big things. If you’re interested in becoming a science, technology, engineering, or mathematics (STEM) educator one day, there is no better place to study than Illinois Tech—a university recognized for innovation and achievements in science and technology.

Illinois Tech’s internationally renowned **Department of Mathematics and Science Education (MSED)** leverages the university’s strengths in STEM, preparing undergraduate students majoring in these fields for teacher licensure in biology, chemistry, physics, and mathematics.

**Great Teachers Wanted!**

As more states prepare to implement Next Generation Science Standards, there is a growing need for teachers who can help meet the new standards. In fact, in recent years there has been a growing preference for teachers with degrees in science or mathematics—and the knowledge about how to teach these subjects.

According to the National Center for Education Statistics, in 2007-08 fewer than half of all chemistry and physics teachers majored in the subject they taught—and just 25 percent of math teachers had a math degree. It is clear that this is not enough.

The STEM Education Minor allows you to meet all of the requirements to be licensed by the state of Illinois to teach secondary mathematics (grades 6–12) and secondary science: biology, chemistry, or physics (grades 6–12). You’ll complete this 7-course, 24-credit-hour program as part of your undergraduate study in a STEM major.

You can also study for the **Bachelor of Science in Physics Education.**

**Seriously Hands On**

As a student in Illinois Tech’s STEM Education Minor program, you’ll take part in capstone experiences in which you assume continuous teaching responsibilities in at least three classes in a Chicago or Chicago suburban public or private school. You will spend a full semester in the area school under the supervision of a classroom teacher and university supervisor.

**Research—Even As an Undergrad!**

Undergraduates at Illinois Tech get the opportunity to work on major research right from the start. You might study at nearby Argonne or Fermi national laboratories, participate in a professor’s research lab, or apply for one of our stipends for undergraduate summer research in the sciences.

Joy Kubarek-Sandor (Ph.D. Science Education ’15) has worked at John G. Shedd Aquarium since 2006 and oversees the Shedd’s Learning Group. Her team provides a range of learning experiences onsite, offsite, and online with the goal of enhancing a learner’s scientific literacy, environmental literacy, and twenty-first-century learning skills.
 Illinois Tech—The Place for STEM Education

If you’re interested in the STEM Education Minor at Illinois Tech, you’ll take primary coursework in either our College of Science or Armour College of Engineering, in addition to courses that will prepare you for the teaching license.

College of Science

Rigor and relevance. These two words describe the educational experience you can expect from the College of Science. Our programs are firmly grounded in the fundamentals of mathematics, science, and technology, and understood within their application to the outside world. They are challenging and academically demanding. And that’s exactly what you should expect from a college that prides itself on making sure its students are prepared to make a difference in the world—not only on day one, but also 25 years after they graduate.

Bachelor of Science (B.S.) Degrees in:
- Applied Mathematics
- Applied Physics
- Astrophysics
- Biochemistry
- Bioinformatics
- Biology
- Chemistry
- Computer Information Systems
- Computer Science
- Molecular Biochemistry and Biophysics
- Physics
- Physics Education

Armour College of Engineering

Armour College of Engineering has been educating world-class engineers since the university’s founding in 1890. You’ll learn the principles of your profession and work in an interdisciplinary environment that emphasizes hands-on learning, teamwork, and leadership. Our IIT Engineering Themes program includes team-intensive projects that focus on water, health, energy, and security, allowing you to build a personal online portfolio of your work. And our distinctive Armour R&D program allows you to take part in fundamental and applied research projects that address global challenges.

Bachelor of Science (B.S.) Degrees in:
- Aerospace Engineering
- Architectural Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Management
- Materials Science and Engineering
- Mechanical Engineering

Learn to Innovate in IPROs

In Illinois Tech’s signature Interprofessional Projects (IPRO) Program, you’ll work with students from various majors to solve real-world problems. This hands-on collaborative experience gives our students a big advantage after graduation.

Recent STEM-education-oriented IPROs include:
- Developing teaching modules and STEM-in-a-box activities for the Girl Scouts of Greater Chicago and Northwest Indiana
- Developing teaching modules on ecological separation for Shedd Aquarium
- Developing K-3 teaching modules on human-made world for Erikson Institute
- Creating and prototyping concepts for a meteor strike exhibit at Adler Planetarium
- Enhancing and teaching field data collection for high school students for the Peggy Notebaert Nature Museum

EXPERIENCE IT
SEE WHAT HAWK LIFE IS ALL ABOUT!

Throughout the year we host a number of opportunities for you and your family to come check out everything you’d ever want to know about us!

Schedule a campus visit today at visit.iit.edu.

Or send us an email at admissions@iit.edu.