At Illinois Tech’s College of Science we view the core sciences as the raw fuel of innovation. Our students gain a deep understanding of science and technology and excel as leaders who create, discover across boundaries, and pursue bold ideas fearlessly.
Why study science? Science underpins everything. It allows us to venture into the unknown. Its discoveries lead to tomorrow’s technologies. It is challenging. It gives way to problem-solving skills with wide application, making graduates valuable to diverse employers. It is fundamentally a global collaborative enterprise.

Why study science at Illinois Tech? Because it provides you all the benefits of a small school, coupled with major research capacity and all the benefits of the city of Chicago.

YOU’RE IN GOOD COMPANY IN THE COLLEGE OF SCIENCE.

The College of Science feels like a small private school, but its research is major league. You’re in courses taught by more than 100 outstanding full-time faculty who are top scholars in their fields. That’s right. By faculty. Not by teaching assistants.

When you graduate, you’ll join a network of more than 10,000 alumni who work in business, government, and academic institutions all over the world.

How good is that?

SPEND TIME WITH REALLY SMART PEOPLE.

We have connections with world-famous labs including Argonne National Laboratory, partners such as Chicago Public Schools, and Chicago businesses. As a student, you’ll get access to networks of mentors, colleagues—and a lot of really influential people in your field.

RIGOR AND RELEVANCE.

These two words define the educational experience you will receive in the College of Science. Our programs are intellectually demanding and yet provide multiple pathways to the academic, professional, and entrepreneurial worlds. We will give you the tools to solve today’s problems and the knowledge to build the new tools to address tomorrow’s problems.

YOUR DEGREE HAS VALUE.

Our graduates are hired by companies with names everyone recognizes: Microsoft, Google, Citibiz, Argonne, Baxter, the Chicago Board of Trade, and Chase. And if you want to go on to earn a graduate degree in your field.

Conduct research that matters.

In the College of Science you can work on research with internationally known faculty. You can intern at world-renowned laboratories. Or conduct your own research. Illinois Tech undergraduates can do research at Chicago’s famous Argonne and Fermilab national laboratories. The college also offers $5,000 Undergraduate Summer Research stipends to select students.

Personalized. That’s what education should be. At Illinois Tech one size never fits all.

After comparing Illinois Tech’s Applied Math program with other schools I was interested in, I decided I would learn the most at Illinois Tech. A paper I co-authored with four other students was selected to be presented at the Mathematical Association of America’s annual conference. We analyzed the recent Ebola outbreak in West Africa and tried to come up with an optimal solution for how to spend the medical and monetary resources available. Another student and I went to D.C. for the conference and presented our results.

— James Panek (Applied Mathematics ’16/M.S. Candidate), La Grange Park, Illinois

UNDERGRADUATE PROGRAMS

BACHELOR OF SCIENCE IN:

• Applied Mathematics
• Applied Physics
• Astrophysics
• Biochemistry
• Bioinformatics
• Biology
• Biology/Physiology Dual Degree
• Chemistry
• Computer Science
• Computer Information Systems
• Molecular Biochemistry and Biophysics
• Physics
• Physics Education

All of the above may be combined with a minor in STEM education, leading to state licensure.

Our special academic programs include:

• Pre-Medical/Health Professions Program
• Honors Pharmacy

2‘FER ADVANTAGE

Earn both your bachelor’s degree and master’s degree in as few as five years.

For example:

• Earn a B.S. in applied mathematics and an M.S. in computer science in as few as five years.
• Earn a B.S. in physics and an M.S. in health physics in as few as five years.
• Earn a B.S. in biology and an M.S. in biology in as few as five years.
• Earn a B.S. in chemistry and a professional master’s in food safety and technology … ...

Computer Science Professor Aron Culotta studies socially beneficial applications of natural language processing, machine learning, and text mining algorithms. He has found correlations between Twitter chatter and values such as the influenza rate, alcohol sales volume, and the level of concern regarding an impending hurricane.

Chemistry Professor Joy Chong conducts interdisciplinary research projects aimed at developing safe, effective, and targeted drugs for cancer and neurodegenerative diseases. Her lab has developed several promising cancer therapeutic and diagnostic agents with successful preclinical profiles that are favorably compared to the existing cancer drugs.

“Stand on the leading edge.”

— Aron Culotta (Physics ’16), Oak Forest, Illinois

“See the complete list at http://science.illinois.edu/programs/undergraduate/2-fer-degrees”

STAND ON THE LEADING EDGE.

The cool thing about physics at Illinois Tech is that the curriculum covers such a variety of subjects, making us really versatile students and workers. When I come to Illinois Tech, one of the first things I was told was companies like physics majors because they knew we knew how to learn, and that’s certainly true. You get enough lab experience to be a competitive applicant for industry internships and funded undergraduate research projects. In my case, I had enough programming experience to secure a job as a full-time software developer months before I graduated. It’s challenging but definitely rewarding at the end.

— Carly Ing (Physics ’15), Oak Forest, Illinois

Software Developer for Target

13 UNDERGRADUATE MAJORS

Nearly one in five Illinois Tech students earns a degree from the College of Science.
RESEARCH ON THE EDGE

Our faculty are pushing the boundaries of what we know in many areas, including:

- Accelerator research
- Big data and data analytics
- Cancer therapeutics
- Catalysts
- Computational mathematics
- Discrete applied mathematics
- Dystrophin rod and Duchenne muscular dystrophy
- Fuel claddings intended to withstand severe nuclear accidents
- Improvement of bacterial strains for enhanced biodesulfurization of petroleum
- Information retrieval, data mining
- Nanoelectrofuel flow batteries
- Nanomaterials for applications in chemical sensing, energy storage, and biomedical usage
- Particle physics
- Programmed cell death in cancer cells
- Solar energy conversion, catalysis, electronic materials, and chemical structure and bonding
- Stochastics (including financial mathematics)
- Superconductivity

STAND OUT.

Our graduates are far from ordinary. But we expect them to be extraordinary.

Jacob Matijevic
(Math ’69) — Lead developer of the Mars rovers

Rajeev Chandrasekhar
(M.S. Computer Science ’88) — Co-designed Intel’s Pentium chip

Susan Solomon
(Chemistry ’77) — Co-chair of the Intergovernmental Panel on Climate Change, which received the 2007 Nobel Peace Prize

Michael Romalis
(Physics ’93) — Princeton University physics professor

Victor Tsao
(M.S. Computer Science ’80) — Founder of Linksys

Will we add your name to our list?

Office of Undergraduate Admission
Perlstein Hall, Room 101
10 West 33rd Street
Chicago, IL 60616-3793
312.567.3025
800.448.2329 (outside Chicago)
312.567.6939 (fax)

science.iit.edu