Illinois Tech is a small, private university that educates students to go on to do big things. If you love tech, computers, coding, the industry—what makes it all tick—there is no better place to study than Illinois Tech, a university recognized for innovation and achievements in science and technology.

If you’re like some of our students, you know you want to work in this field—only you might not be sure which major is best for you. At Illinois Tech we’ll help you find the right path. Here are four academic majors that students often choose between, and a bit about each degree program.

**Computer Science**

If you’re interested in innovation and the theoretical concepts and design behind the technology, computer science could be a good fit for you. In CS you’ll learn the programming paradigms and when each is most applicable, which will enable you to keep up with this rapidly changing field. Beyond the fundamentals, you will be able to focus in areas of data mining, information security, artificial intelligence, and distributed computing. Create the next programming language!

**Computer Information Systems**

CIS students concentrate on how computer systems are effective within an organization. Your courses take a broader approach with a focus on how computers are used as sophisticated problem-solving tools. This interdisciplinary program gives you a solid foundation in computer science, but with fewer required classes in math and CS theory. You can blend your computer science abilities with skills specific to another discipline such as business (e.g., management information systems) or natural science (e.g., computational physics).

CS/CIS Specializations

- Data Science
- Distributed and Cloud Computing
- Information Security
- Information and Knowledge Management Systems

**Computer Engineering**

Are you drawn to the electrical and hardware components of computing? If yes, then computer engineering may be the way to go. You’ll study everything from microprocessors to embedded computing devices to laptop and desktop systems to supercomputers. You will work on how data is communicated among electronic components, how software is written for specific hardware platforms, and how microprocessors are designed and optimized from an electrical engineering viewpoint.

**Information Technology and Management**

This major is about knowing and managing IT—and translating it into a useful business tool. Our ITM program integrates theoretical principles with applied hands-on laboratory and project collaboration. You’ll learn about a variety of IT fields, including web and application development, system architecture, networking, database systems, systems security, contemporary programming languages, and more.

ITM Specializations

- Data Management
- IT Entrepreneurship and Management
- Networking and Communications
- Software Development
- System Administration
- Systems Security
- Web Design and Application Development

**Team Works**

Our ITM major features a project-based learning program that allows you to work in group situations on industry-sponsored projects. Recent student projects have involved cyber forensics and security, wearable computing and clothing-based proximity sensors for the visually impaired, and a SIP-based telephone service for the campus.
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 computer- and tech-oriented IPROs include:

- Mobilus: robotic standing wheelchair with arm component
- Smart microgrids within contemporary electrical generation, transmission, and distribution networks
- Big data and analytics for innovative access-control business opportunities
- User interfaces for novel computer-aided drug design tools
- An interactive prototype for the neighborhood gathering spot of the future
- The Simularium: exploring opportunities for an immersive environment with 3-D visualization

STAND OUT.

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

Graduates of our computer and technology programs include a member of the team that developed the Pentium chip, the co-founder of Linksys, a key scientist on the Titan supercomputer project, and many other global innovators.

Last summer I was an intern in software development for Visa. It was the best summer ever. It was cool to see the life cycle of a software development project from beginning to end. Illinois Tech definitely prepared me for my internship. I picked up a new language easily.

— Emily Warman  
(Computer Science 4th Year),  
Toronto, Canada

Research—Even As an Undergrad!

Undergraduates at Illinois Tech get the opportunity to work on major research right from the start. You might participate in a professor’s research lab, work at a company on campus in University Technology Park, or apply for one of our stipends for undergraduate summer research in the College of Science.

EXPERIENCE IT:

Computers and Technology at Illinois Tech

Emily was one of five national winners of the 2015 Wells Fargo Campus Analytics Challenge. She conducts research with Aron Culotta, assistant professor of computer science, working to improve the demographic classification of Twitter users who feel positively or negatively about e-cigarettes.

Our hometown of Chicago is ranked as one of the top 10 cities for technology careers by CIO magazine.

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.