“Big data,” “the internet of things,” “data mining.” Business managers and policymakers are using these terms increasingly to describe how we can explore patterns in data and make the best predictions. The Applied Analytics program at Illinois Tech provides you the relevant tools to contribute to this continually growing area of data science, educating you in the advanced skills of collecting, curating, and analyzing data.

Our Applied Analytics program is distinctive in that it grounds computer science and data management skills in core theories of the social sciences. You’ll move beyond exploratory analysis and identify the causal mechanisms. Further, you will be able to compellingly communicate your findings to multiple audiences. Our program uniquely prepares you to communicate data and understand human behavior—key skills that are lacking in similar analytics-related programs housed in computer science and mathematics (statistics) departments elsewhere.

Our program’s position within a tech-focused university allows you to study applied analytics while taking advantage of Illinois Tech’s scientific and innovative environment.

The B.S. in Applied Analytics at Illinois Tech
Illinois Tech’s Applied Analytics undergraduate program is interdisciplinary and combines coursework in psychology, business, economics, and communications. The program also allows you to pursue a minor in an area of your choosing. Your capstone project will provide definitive evidence of your competencies to future employers and/or graduate school selection committees.

As a student in Lewis College of Human Sciences, you can also apply for a special program that allows you to complete your B.S. in applied analytics and receive your J.D. from Chicago-Kent College of Law in six years.

Research—Even As an Undergrad!
Applied analytics undergraduates at Illinois Tech have the opportunity to work on major research right from the start. In addition to your capstone project, you can get involved with faculty research projects. You can conduct your own independent research or pursue an external research opportunity.

Research on the Edge
Our faculty are pushing the boundaries of what we know in many areas of applied analytics, policy, and society.

Assistant Professor of Social Science Hao Huang is an economic geographer whose current work uses geographic information systems (GIS) to look at spatial distribution, spatial statistics, and space-time models to understand why foreign companies choose to establish locations in certain areas of China. Her research examines the factors that influence these foreign direct investments at the regional, provincial, and city/metropolitan levels.

Associate Professor of Political Science Matthew Shapiro’s research focuses on science and technology policies and environmental politics in northeast Asia. He is also a research affiliate for Argonne National Laboratory’s Joint Center for Energy Storage Research, where he is analyzing the collaborations among government research institutes, private companies, and universities as they engage in next-generation battery storage R&D.

Chicago offers many opportunities to network with the city’s larger data-oriented community, ranging from Open Hack Night to internships at the city’s Data Office.

Find It All at Illinois Tech
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. Recent IPROs with an applied analytics angle include:

• Applying mobile technology to enhance psychological research on depressive symptoms
• The science of volleyball: applying multiple disciplines to enhance the understanding, training, and competitive nature of the sport
• Technical and economic analysis of battery storage systems for commercial businesses
• Developing insights into Illinois Tech’s electric and utility vault design to improve energy efficiency and reduce cost

STAND OUT.

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

With an applied analytics degree from Illinois Tech, you will be prepared to innovate and lead in a variety of fields where relevant skills, scientific thinking, and tech experience will give you an advantage. You will be prepared to enter graduate school in statistics, applied economics, public policy, human resources management, business, or technical communications, and even information technology management and computer science. Career paths might include:

• Statistics
• Data science
• Market analytics
• Business analysis
• Applied economics
• Policy analysis
• Bioinformatics
• Psychometrics
• Public relations

The flexibility of the Applied Analytics program is most appealing. I was able to cover communications, economics, business, computer science, and information and technology management courses. I was able to choose if I would like my courses to be computer science or information and technology focused. I also had the freedom to choose my electives.

— Cory Winiecki
Applied Analytics ’16, Des Plaines, Illinois

Experience It: Applied Analytics at Illinois Tech

Lewis College of Human Sciences
ILLINOIS INSTITUTE OF TECHNOLOGY