## ACADEMIC PROGRAMS

### Graduate Degree Programs and General Requirements

The university's Armour College of Engineering, Chicago-Kent College of Law, College of Architecture, College of Computing, Institute of Design, Lewis College of Science and Letters, and Stuart School of Business award graduate degrees. In many fields, students in master's programs may choose either a thesis track or non-thesis track program. These academic units also work together to offer a wide variety of joint- and dual-degree programs.

### Doctoral Degrees

- Applied Mathematics
- Architecture
- Architectural Engineering
- Biology
- Biomedical Engineering
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Engineering
- Computer Science
- Design
- Electrical Engineering
- Environmental Engineering
- Food Science and Nutrition
- Management Science
- Materials Science and Engineering
- Mechanical and Aerospace Engineering
- Molecular Biochemistry and Biophysics
- Physics
- Psychology
- Rehabilitation Counseling Education
- Technology and Humanities

### Chemistry
- Civil Engineering
- Computational Decision Sciences and Operations Research
- Computer Engineering
- Computer Engineering/Electrical Engineering (dual degree)
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Environmental Management and Sustainability
- Finance
- Food Process Engineering
- Food Safety and Technology
- Industrial-Organizational Psychology
- Information Technology and Management
- Management Science
- Manufacturing Engineering
- Marketing Analytics
- Materials Science and Engineering
- Mechanical and Aerospace Engineering
- Medical Devices and Biomaterials
- Molecular Biochemistry and Biophysics
- Nutrition Science
- Physics
- Psychology
- Rehabilitation and Mental Health Counseling
- Technical Communication and Information Architecture
- Technology and Humanities

### Juris Doctor (J.D.)

- Master of Laws (LL.M.)
- J.D./LL.M. in Family Law
- J.D./LL.M. in Financial Services Law (joint degree)
- J.D./LL.M. in Taxation (joint degree)
- J.D./M.B.A. (joint degree)
- J.D./M.P.A. (joint degree)
- J.D./M.S. in Environmental Management and Sustainability (joint degree)
- J.D./M.S. in Finance (joint degree)
- J.D./Master of Public Health (joint degree in cooperation with University of Illinois at Chicago)

### Master of Science Degrees

- Analytical Chemistry
- Applied Cybersecurity and Digital Forensics
- Applied Mathematics
- Applied Physics
- Architectural Engineering
- Architecture
- Autonomous Systems and Robotics
- Biology
- Biology for the Health Professions
- Biomedical Data Science and Modeling
- Biomedical Engineering
- Chemical Engineering
Professional Master’s Degrees
These programs are specifically designed with the needs of professionals in mind. Most are course-only and do not require a thesis. In addition, the GRE requirement may be waived for applicants to professional master’s degree programs who hold a bachelor’s degree from an accredited U.S. institution with a cumulative GPA of at least 3.0/4.0.

Advanced Manufacturing (M.E.)
Applied Mathematics
Architecture
Architecture/Landscape Architecture (dual degree)
Architectural Engineering (M.E.)
Artificial Intelligence
Artificial Intelligence for Computer Vision and Control (M.E.)
Biological Engineering
Biomedical Engineering (M.E.)
Biomedical Imaging and Signals
Business Administration (M.B.A.)
Business Administration/Design (dual degree)
Business Administration/M.S. in Environmental Management and Sustainability (dual degree)
Business Administration/M.S. in Finance (dual degree)
Business Administration/M.S. in Marketing Analytics (dual degree)
Business Administration/Public Policy and Administration (dual degree)
Chemical Engineering
Computational Engineering
Computer Engineering in Internet of Things
Computer Science
Construction Engineering and Management (M.E.)
Cyber Forensics and Security
Cyber Security Engineering
Cybersecurity
Data Science
Design
Design Methods
Design/Public Policy and Administration (dual degree)
Electrical and Computer Engineering
Electricity Markets
Energy Systems (M.E.)
Engineering Management
Environmental Engineering (M.E.)
Food Process Engineering
Food Safety and Technology
Health Physics
High Performance Buildings
Industrial Technology and Operations
Information Technology and Management
Intellectual Property Management and Markets
Landscape Architecture
Manufacturing Engineering (M.E.)
Materials Chemistry
Materials Science and Engineering (M.E.)
Mathematical Finance
Mechanical and Aerospace Engineering (M.E.)
Network Engineering
Pharmaceutical Engineering
Power Engineering
Public Policy and Administration (M.P.U.P.A.)
Public Works (M.P.W.)
Structural Engineering (M.E.)
Tall Building and Vertical Urbanism
Taxation
Technological Entrepreneurship
Telecommunications and Software Engineering
Transportation Engineering (M.E.)
Urban Systems Engineering (M.E.)
VLSI and Microelectronics
Wireless Communications and Computer Networks
Accelerated Master’s Program (AMP)

There are four paths to the completion of an accelerated master’s degree at Illinois Tech:

1. Co-terminal paired bachelor’s and master’s programs completed concurrently (see more information in the Co-Terminal Degree Programs section (p. 3))
   a. These programs have been pre-selected for pairing between the same academic discipline of undergraduate study or a different discipline.
   b. Graduate co-terminal admission is required when a student reaches a minimum of 60 earned or in-progress credit hours (see more information in the Synopsis of Co-Terminal Studies section).
   c. The student must submit a declaration of shared and non-shared courses (explicitly for graduate use) in the first semester of co-terminal enrollment.

2. Co-terminal unpaired bachelor’s and master’s programs completed concurrently
   a. These programs are not a pre-selected pair.
   b. The student must have advance approval from both the undergraduate and graduate academic units for the program of interest, including the intended shared courses.
      i. The approval process is called a Declaration of Intent and may be filed after the first semester of undergraduate enrollment.
      ii. Selected shared courses must explicitly satisfy the approved graduate curriculum without course substitution.
   c. Subsequent admission to the master’s program of interest is required.
   d. The student must submit a declaration of shared and non-shared courses (explicitly for graduate use) in the first semester of co-terminal enrollment.

3. Post-baccalaureate master’s program (Illinois Tech alums only)
   a. A master’s program that has explicit course requirements, of which the student has fulfilled some shared courses during the completion of an Illinois Tech bachelor’s degree.
   b. The bachelors will be earned no earlier than three years prior to the first term of master’s enrollment.
      i. Up to nine credit hours of relevant coursework may be shared between the two degrees.
      ii. Consideration of course substitution is at the discretion of the graduate academic unit.

4. Dual degree program with an Illinois Tech partner institution
   a. Two concurrent master’s degree programs, with prior agreement for specific programs between Illinois Tech and a selected partner institution.
   b. The number of applicable shared credits is determined by the terms of the partnership agreement, but may not exceed nine credit hours. In most cases six credit hours are allowed.
   c. Consideration of course substitution is at the discretion of the graduate academic unit.

Co-Terminal Degree Programs

Co-terminal degrees provide an opportunity for students to gain greater knowledge in specialized areas while completing a smaller number of credit hours with increased scheduling flexibility than the completion of two degrees separately. Because most co-terminal degrees allow students to share course credit (a maximum of nine credit hours), students may complete both a bachelor’s and master’s degree in as few as five years. Up to a combined total of nine applicable credit hours earned prior to matriculation into an Illinois Institute of Technology graduate degree program, subject to the graduate studies rules and restrictions, may be considered for 1) external transfer credit for graduate transfer credit use; 2) internal transfer credit from an Illinois Institute of Technology undergraduate program; and/or 3) shared co-terminal program credit. More information regarding this policy is available in the Transfer Credit section of the Graduate Bulletin.

All co-terminal degree requirements must be completed within six years of undergraduate matriculation, or the student will be dismissed from the co-terminal degree program. A student who is placed on undergraduate academic probation may be dismissed from the co-terminal program pending review.

Co-terminal students maintain their undergraduate student status while completing graduate coursework, and can maintain financial aid eligibility when applicable.

The following are legacy co-terminal degree pairings as of June 2020. Students may also work with advisers to identify alternate bachelor’s and master’s degree pairings, pending the approval of the prospective graduate program and the student’s undergraduate program. More information is available in the Co-Terminal Advising section of this bulletin.

**Applied Mathematics**
Bachelor of Science in Applied Mathematics/Master of Science in Applied Mathematics
Bachelor of Science in Applied Mathematics/Master of Data Science
Bachelor of Science in Applied Mathematics/Master of Mathematical Finance

**Architecture**
Bachelor of Architecture/Master of Science in Architecture
Academic Programs

**Biology**
- Bachelor of Science in Biochemistry/Master of Biology with Biochemistry specialization
- Bachelor of Science in Biochemistry/Master of Science in Biology for the Health Professions
- Bachelor of Science in Biochemistry/Master of Science in Biology with Biochemistry specialization
- Bachelor of Science in Biology/Master of Biology
- Bachelor of Science in Biology/Master of Science in Biology for the Health Professions
- Bachelor of Science in Biomedical Engineering/Master of Science in Biology for the Health Professions
- Bachelor of Science in Chemistry/Master of Science in Biology for the Health Professions
- Bachelor of Science in Molecular Biochemistry and Biophysics/Master of Science in Molecular Biochemistry and Biophysics

**Business**
- Bachelor of Science in Applied Mathematics/Master of Mathematical Finance
- Bachelor of Science in Business Administration/Master of Public Policy and Administration
- Bachelor of Science in Business Administration/Master of Science in Finance
- Bachelor of Science in Business Administration/Master of Science in Marketing Analytics
- Bachelor of Science in Chemistry/Master of Science in Environmental Management and Sustainability
- Bachelor of Science in Engineering Management/Master of Public Policy and Administration
- Bachelor of Science in Social and Economic Development Policy/Master of Public Policy and Administration

**Chemical and Biological Engineering**
- Bachelor of Science in Biomedical Engineering/Master of Chemical Engineering
- Bachelor of Science in Chemical Engineering/Master of Biological Engineering
- Bachelor of Science in Chemical Engineering/Master of Chemical Engineering
- Bachelor of Science in Chemistry/Master of Chemical Engineering

**Civil, Architectural, and Environmental Engineering**
- Bachelor of Architecture/Master of Engineering in Construction Engineering and Management
- Bachelor of Science in Architectural Engineering/Master of Engineering in Architectural Engineering
- Bachelor of Science in Architectural Engineering/Master of Engineering in Construction Engineering and Management
- Bachelor of Science in Architectural Engineering/Master of Engineering in Structural Engineering
- Bachelor of Science in Chemical Engineering/Master of Engineering in Environmental Engineering
- Bachelor of Science in Civil Engineering/Master of Engineering in Construction Engineering and Management
- Bachelor of Science in Civil Engineering/Master of Engineering in Environmental Engineering
- Bachelor of Science in Civil Engineering/Master of Engineering in Structural Engineering
- Bachelor of Science in Civil Engineering/Master of Engineering in Transportation Engineering

**Computer Science**
- Bachelor of Science in Applied Mathematics/Master of Computer Science
- Bachelor of Science in Applied Mathematics/Master of Science in Computer Science
- Bachelor of Science in Artificial Intelligence/Master of Artificial Intelligence
- Bachelor of Science in Biochemistry/Master of Computer Science
- Bachelor of Science in Biology/Master of Science in Computer Science
- Bachelor of Science in Biomedical Engineering/Master of Computer Science
- Bachelor of Science in Chemistry/Master of Computer Science
- Bachelor of Science in Computer Science/Master of Artificial Intelligence
- Bachelor of Science in Computer Science/Master of Computer Science
- Bachelor of Science in Computer Science/Master of Science in Computer Science
- Bachelor of Science in Computer Science/Master of Data Science
- Bachelor of Science in Physics/Master of Computer Science
- Bachelor of Science in Physics/Master of Science in Computer Science

**Electrical and Computer Engineering**
- Bachelor of Science in Biomedical Engineering/Master of Biomedical Imaging and Signals
- Bachelor of Science in Computer Engineering/Master of Science in Computer Engineering
- Bachelor of Science in Computer Engineering/Master of Science in Electrical Engineering
- Bachelor of Science in Electrical Engineering/Master of Science in Computer Engineering
- Bachelor of Science in Electrical Engineering/Master of Science in Electrical Engineering

**Food Science and Nutrition**
- Bachelor of Science in Biochemistry/Master of Food Safety and Technology
- Bachelor of Science in Biology/Master of Food Safety and Technology
- Bachelor of Science in Chemical Engineering/Master of Food Process Engineering
- Bachelor of Science in Chemistry/Master of Food Safety and Technology

**Industrial Technology and Management**
- Bachelor of Industrial Technology and Management/Master of Industrial Technology and Operations

**Information Technology and Management**
- Bachelor of Information Technology and Management/Master of Cyber Forensics and Security
- Bachelor of Information Technology and Management/Master of Information Technology and Management

**Intellectual Property Management and Markets**
- Bachelor of Science in Computer Science/Master of Intellectual Property Management and Markets
Mechanical, Materials, and Aerospace Engineering
Bachelor of Science in Aerospace Engineering/Master of Engineering in Materials Science and Engineering
Bachelor of Science in Aerospace Engineering/Master of Engineering in Mechanical and Aerospace Engineering
Bachelor of Science in Materials Science and Engineering/Master of Engineering in Materials Science and Engineering
Bachelor of Science in Mechanical Engineering/Master of Engineering in Materials Science and Engineering
Bachelor of Science in Mechanical Engineering/Master of Engineering in Mechanical and Aerospace Engineering

Physics
Bachelor of Science in Physics/Master of Health Physics
Bachelor of Science in Physics/Master of Science in Physics

Graduate Certificate Programs
Designed to provide knowledge in a specialized area within an academic discipline, these programs typically consist of 9-12 credit hours of coursework that might otherwise be applicable to a master’s degree. Students who successfully complete graduate certificate programs and who subsequently apply for admission and are admitted to a master’s degree program at the university may apply all approved coursework taken in the certificate program and passed with a grade of “B” or better toward the master’s degree. Admission to a certificate program does not guarantee future admission to a degree program.

With a few exceptions, Illinois Institute of Technology’s graduate certificate programs are eligible for the Gainful Employment Programs. For a complete list of eligible certificates, see iit.edu/grad_adm.

Biology
Cell and Molecular Biology
Microbiology and Immunology

Chemical and Biological Engineering
Biological Engineering
Current Energy Issues
Pharmaceutical Engineering
Polymer Science and Engineering
Process Operations Management

Chemistry
Analytical Method Development
Analytical Spectroscopy
Chromatography
Materials Chemistry
Regulatory Science

Civil, Architectural, and Environmental Engineering
Air Resources
Architectural Engineering
Construction Management
Earthquake and Wind Engineering Design
Hazardous Waste Management
Indoor Air Quality
Infrastructure Engineering and Management
Transportation Systems Planning
Water and Wastewater Treatment

Computer Science
Computational Intelligence
Cyber-Physical Systems
Data Analytics
Database Systems
Distributed and Cloud Computing
Information Security and Assurance
Networking and Communications
Software Engineering

Electrical and Computer Engineering
Advanced Electronics
Applied Electromagnetics
Communication Systems
Computer Engineering
Control Systems

Electrical and Computer Engineering
Advanced Electronics
Applied Electromagnetics
Communication Systems
Computer Engineering
Control Systems

Food Science and Nutrition
Food Process Engineering
Food Processing Specialist
Food Safety and Industrial Management
Food Safety and Technology

Humanities
Instructional Design
Technical Communication

Information Technology and Management
Advanced Software Development
Cyber Security Management
Cyber Security Technologies
Data Center Operations and Management
Digital Voice and Data Communication Technologies
Information Technology Innovation, Leadership, and Entrepreneurship
System Administration
Systems Analysis
Web Design and Application Development

Mechanical, Materials, and Aerospace Engineering
Computer Integrated Design and Manufacturing
Product Quality and Reliability Assurance

Physics
Radiological Physics

Psychology
Psychiatric Rehabilitation
Rehabilitation Counseling
Rehabilitation Engineering Technology
Professional Certificates
Stuart School of Business

Business Administration
Compliance and Pollution Prevention
Corporate Finance
Financial Economics
Financial Modeling
Financial Toolbox
Fundamentals of Finance
Innovation and Emerging Enterprises
Investments
Marketing Management

Undergraduate Programs
A complete description of undergraduate programs and admission requirements is available from the Office of Undergraduate Admission at admissions.iit.edu/undergraduate.