Presentation by

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STATS AT ILLINOIS TECH

- Undergraduates: 2,879 students

- Graduates: 3,700 students

- Career Placement rate: 90.5%

Rankings & Recognition

#1 in Illinois, #32 in the nation for lifting students from families in the bottom 20% of income to the top 20% (*Opportunity Insights*)

#1 in Illinois, #23 in the nation (Wall street Journal College Pulse/Best Colleges 2024)

#2 in Illinois, #83 in the nation for 20-year net ROI after financial aid (*PayScale*)

#98 Best National University and #29 Best Value School (*U.S. News & World Report*)
"National Universities" includes all institutions ranked by *U.S. News & World Report* that, in addition to bachelor's and master's degrees, offer a range of doctoral degrees and have a commitment to producing groundbreaking research.

Member of the AITU (23 members)

AITU
ASSOCIATION OF INDEPENDENT
TECHNOLOGICAL UNIVERSITIES

ILLINOIS TECH

Notable Illinois Tech alumni

Illinois Tech's innovations/discoveries/creations

Marty Cooper -Inventor of the cell phone 1972-73

Rohit Prasad – Head Scientist behind the creation of Alexa

Ed Kaplan – Bar code printer technology pioneer -

"The way I think about Alexa is the way AI is revolutionizing daily convenience."
– Rohit Prasad (M.S. EE 1999)

"The fundamentals I learned at Illinois Tech have been my guiding light in everything I have done."

– Martin Cooper (B.S. EE 1950; M.S. EE 1957)

ILLINOIS TECH

In the News

Jack Dongarra (Illinois Tech alum – MS CS 1972) winner
of the ACM (Association for Computing Machinery) **Turing Award 2021**

Jin-Ho Lee (Illinois Tech alum- MS/Phd CS) new Chief
Technology Officer -2023 at Carrot General insurance –one of S.Korea's
largest digital insurance companies

ONE OF THE NATION'S FIRST JOINT UNIVERSITY AND INDUSTRY ACADEMIES -
Creation with company DMG MORI a national center for advanced manufacturing to
train, develop and empower advanced manufacturing workforces of the future

DMG MORI is a worldwide leading manufacturer of high-precision machine tools and sustainable technologies that are at the center
of global value chains-"https://en.dmgmori.com

ILLINOIS TECH

ATHLETICS

Men's

Baseball
Basketball
Cross Country
Lacrosse
Soccer
Swimming and Diving
Tennis
Track and Field
Volleyball

Women's

Basketball
Cross Country
Lacrosse
Soccer
Swimming and Diving
Tennis
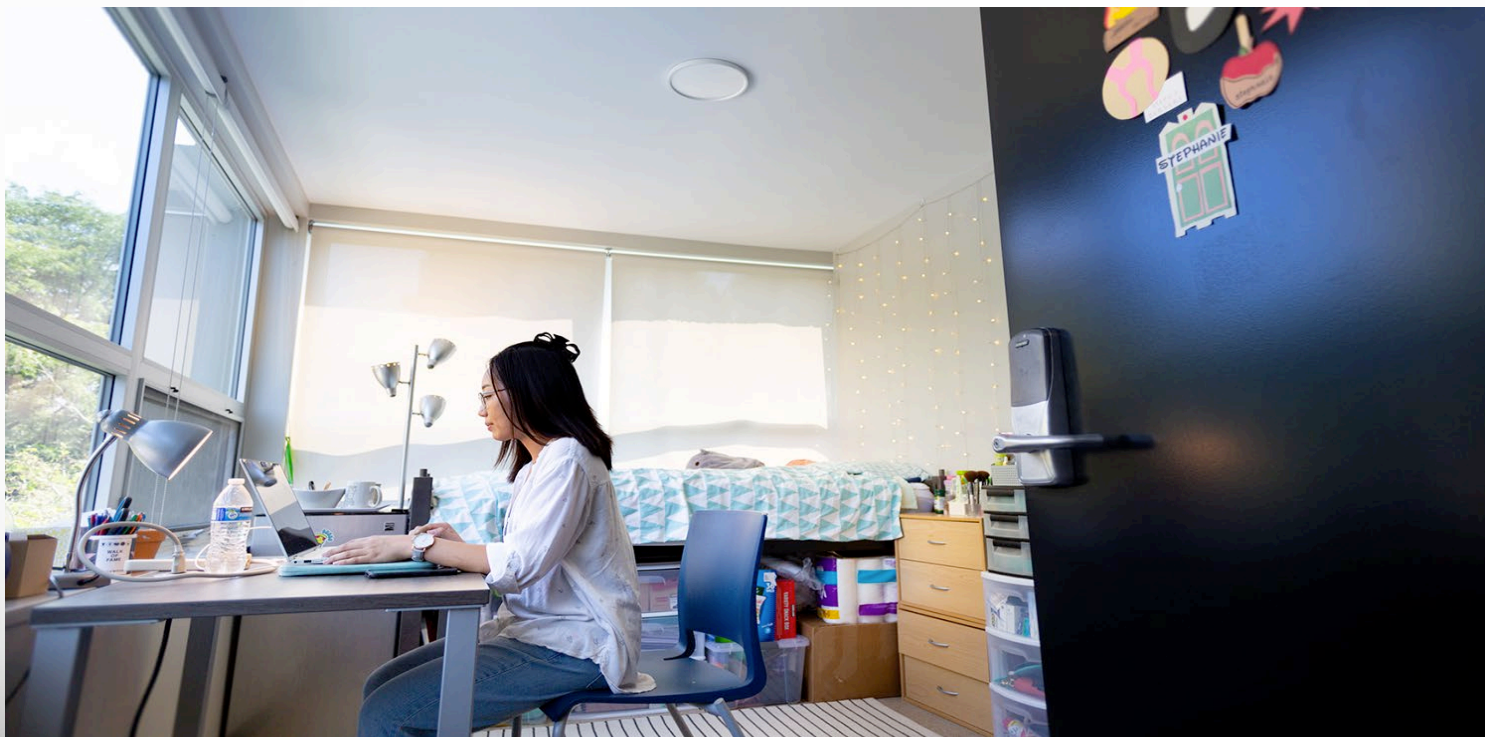Track and Field
Volleyball

ILLINOIS TECH

Campus Housing

Residence Halls

- McCormick Student Village

- Jeanne and John Rowe Village

- Gunsaulus Hall

- Carman Hall

- George J. Kacek Hall

Single Room- Kacek Hall

Room and Meal rates on-campus housing

ROOM RATES ON CAMPUS: **August 2023-May 2024**
https://www.iit.edu/housing/housing-options/housing-rates

Cost range: $8,758-$15,442 for the academic year

BOARD/MEAL RATES ON CAMPUS:
https://www.iit.edu/housing/dining-and-meal-plan/options-and-rates

Cost range: $1,886 - $7,910 for the academic year

Graduate(Master and Doctoral level) students are NOT required to live in on-campus housing

ILLINOIS TECH

Illinois Tech Partners in Spain

Universidad Politecnica de Madrid
(ETSIT, ETSIINF, ETSIAAB, ETSII, ETSICCP, ETSAM, ETSIME, ETSIDI)

Universitat Politecnica de Valencia (ETSII, ETSIT, ETSA, ETSIAMN)

Universitat Politecnica de Catalunya (ESEIAAT, ETSETB, ETSEIB, FME, ETSAB, ETSECCPB, EEBE)

Universidad Del Pais Vasco (EIB-School of Engineering)

Universidad de Seville (School of Engineering, Faculty of Psychology)

IE School of Architecture and Design, Madrid

ICAI Comillas, Madrid

ILLINOIS TECH

Departments at Illinois Tech

ARMOUR COLLEGE OF ENGINEERING

Department of Civil, Architectural & Environmental Engineering – www.iit.edu/caee
Department of Electrical & Computer Engineering - www.iit.edu/ece
Department of Biomedical Engineering - www.iit.edu/bme
Department of Industrial Technology & Management – www.iit.edu/intm
Department of Chemical and Biological Engineering – www.iit.edu/chbe
Department of Mechanical, Materials & Aerospace Engineering – www.iit.edu/mmae

COLLEGE OF COMPUTING
Department of Computer Science – www.iit.edu/computer-science
Department of Applied Mathematics – www.iit.Edu/applied-mathematics
Department of Information Technology & Management – www.iit.edu/itm

LEWIS COLLEGE OF SCIENCE & LETTERS
Department of Physics – www.iit.edu/physics
Department of Chemistry – www.iit.edu/chemistry
Department of Biology – www.iit.edu/biology
Department of Food Science & Nutrition – www.iit.edu/fdsn

STUART SCHOOL OF BUSINESS - www.stuart.iit.edu
COLLEGE OF ARCHITECTURE – www.arch.iit.edu

ILLINOIS TECH

Why study at Illinois Tech?

- Illinois Tech is the **only tech focused university** in Chicago

- **Chicago** is the 3rd largest city in the U.S, opportunities for networking and jobs aplenty – home to more than 30 Fortune 500 companies

- **Argonne National Laboratory and Fermilab** – world famous laboratories – are located within an hour of Illinois Tech

- Possible to complete a Master's degree in **1 year (12 months)** at IIT in **ANY FIELD WITH APPROVAL FROM HOME INSTITUTION**

- **Tuition is the same** for all students regardless of field of study **Engineering/Tech/Sc/Business**

- **No quotas** at the Master's degree level **– Illinois Tech Partner Alliance scholarship – 9 credits for the 1 –year Master for Engineeering/Technology/Science/Business fields**

- **F1 visa** allows students to work for 1 year in the U.S. in their field of study or 3 years if the program has been designated as STEM

ILLINOIS TECH

Master's Degree Program

What are the types of Master's degree program at IIT?
M.S. (Master of Science): MAS (Professional Master's): M.Eng. (Master of Engineering)

Are they all accepted in the work place? YES

How many credits are in different Master's degree programs?   30 credits or 32 credits of 33 credits

What is the ECTS credit equivalency to the U.S. credit system? 2 ECTS = 1 US Credit

Which Master's degree and program fields are applicable? <u>All</u> – as long as the home institution approves of the Master's degree and field chosen

What is the meaning of program fields? Examples – electrical engineering, or power engineering, or AI, or Cybersecurity etc. Degree programs offered are per field of study

Can one take any course from any department in a Master's degree program? <u>No</u>
All Master degree programs comprise core courses and a certain number of electives that a student must complete related to his/her field of study. Choosing acouple of elective courses from another department may be possible with approval from the student's academic adviser IIT

ILLINOIS TECH

DOUBLE DEGREE PROGRAM

INTERDISCIPLINARY PROGRAMS

Armour College of Engineering

M.Eng – Computational Engineering – Biomedicine Track (BME dept.)
M.Eng – Computational Mechanics – (MMAE dept)
M.Eng – Computational Engineering – Optimization Machine Vision & Decision-Making track (ECE dept)
M.Eng – Energy Systems, Energy Transmission & Markets track (ECE dept)
M.Eng – Engineering Management – Product Design & Development Track (MMAE Dept)
M.Eng – Advanced Manufacturing – Additive & Digital Manufacturing Tracks (MMAE dept)
M.Eng – Advanced Manufacturing – Automation & Control Systems track (ECE dept)

ILLINOIS TECH

Career Opportunities & a quick google search (unscientific) of average annual salaries in the U.S. per job title

Computational Fluid Dynamics Analyst – 94K

Core Algorithm developer – 88K

Senior Machine Learning optimization engineer – 100K

Computer Vision Software developer – 83K

Energy Efficiency specialist – 66K

Transmission Engineer – 100K

Transmission and Distribution line engineer -97K

New Product Development Engineer – 100K

Product Engineering designer – 95K

Advanced Manufacturer Engineer – 81K

Image Processing Engineer – 100K

Automation Control Systems Engineer – 85K

Senior Automation controls Engineer – 99K

Systems Energy Engineer – 100K

Senior Energy Engineer – 93K …………;;

A few examples of Master degree programs at IIT

M.Eng – Construction Engineering & Management
M.Eng – Energy Systems, Energy Conservation & Buildings Track
M.Eng – Power Engineering
M.Eng-   Advanced Manufacturing, Automation & Control Systems Track
M.Eng – Artificial Intelligence for Computer Vision & Control
M.Eng – Computer Engineering in IoT
MAS –   Industrial Technology & Management
M.A.S. – Artificial Intelligence
M.A. S - Cybersecurity
M.S.   Financial Economics
M.S.   Computer Science
M.S.   Electrical Engineering
M.S.   Computer Engineering
M.Eng   Civil Engineering or Architectural Engineering or Environmental Engineering
M.S.   Technological Entrepreneurship ….

And a lot more…….

ILLINOIS TECH

STUART SCHOOL OF BUSINESS PROGRAMS

S.T.E.M. Designated programs

M.S. Finance

M.S. Financial Economics

M.S. Management Science and Analytics

M.S. Marketing Analytics

M.S. Technological Entrepreneurship

M.S. Project Management

M.S. Sustainability Analytics and Management

- Eligible for 3-course transfer credit for SSB programs
- Eligible for a 9-credit hour scholarship for SSB (only one scholarship will apply) *

*If choosing one of the SSB programs will be eligible for 9 ch scholarship. Only eligible for ONE scholarship.

ILLINOIS TECH

Double Degree Master's program

Preselection by the partner school (only preselected students may apply)

Official proof of English language proficiency:

TOEFL ibt (not home edition) 80 overall and 20 in all bands
Or
IELTS (not home edition) 6.5 overall and 6.0 in all bands

GRE general waived for Spring 2024 and Fall 2024

Final decision made by Illinois Tech

Academic Calendar

SPRING 2024 SEMESTER

Begins January 8, 2024

FALL 2024 SEMESTER

Begins August 19, 2024

Application deadlines

SPRING SEMESTER

Application: October 15

Financial Support: November !

Intent to Enroll: December 1

Deposit: Waived @Graduate level

FALL SEMESTER

Application: April 15

Financial Support: May 31

Intent to Enroll: July 1

Deposit: Waived @ Graduate level

ILLINOIS TECH

Research project/ Trabajo fin de Master

❖ Number of credits assigned by the IIT department by substituting one or a maximum of 2 elective courses (3 credits or up to 6 credits maximum depending on course elective substitution and program)

❖ Course number – xxx597 (if a letter grade is required) or xxx 594 (if only Pass/Fail)

❖ Credits MUST BE spread out over the year including the summer if necessary

❖ Number of hours required by the home institution has NO RELATION to the credit hours IIT awards

❖ Work expectations and outcomes for the project

❖ Project may be presented in front of a committee if required by the home institution

❖ A research paper/Guidelines per the home institution may be required

❖ Evaluation form may be required by the home institution

ILLINOIS TECH

TRANSFER OF CREDIT

What is transfer of credit or credit transfer?
Course successfully completed (6.5 out of 10) at the **Master's level** at the home institution that may be compatible in number of hours and content. Only such courses may be submitted for transfer credit evaluation.   1 U.S. Credit = 2 ECTS

Is it a guarantee that the courses for submitted for transfer of credit will be approved?
<u>NO</u> – courses are evaluated on a case-by-case basis and may or may not be approved.

How many courses can be submitted for transfer of credit?
Up to 6 U.S. credits (about 2 courses @ 3 U.S. credits each) or, if pursuing a Master's degree offered by the Stuart School of Business – up to 9 U.S. credits (about 3 courses @ 3 U.S.credits each)

What if one or all of the courses submitted for transfer credit are not approved?
The student will have to take them at IIT and pay for those courses, and this could delay graduating in 12 months. The scholarship will **NOT** apply

What if the 6 credits or 9 credits are approved for transfer credit?
The student will not need to retake those courses as part of their degree program. This will reduce the credit load (if a Master's program of 30 credits) to 24 credits (30 – 6)

ILLINOIS TECH

PREREQUISITES

For any Master degree applicant, the Computer Science department requires proof of successful completion (6.5 out of 10) of the following pre-requisites:

CS 201 – Accelerated Introduction to Computer Science (4 US Credits): CS 401 – Introduction to Advanced Studies 1 (3 US Credits) and CS 402 – Introduction to Advanced Studies II (3 US credits) and CS 430 (Introduction to Algorithms)

For the MSCS, MCS and Master of AI programs: Successful completion (6.5 out of 10) of CS 450 (Operating systems) is highly recommended. Additionally successful completion of CS 330 Discrete Structures: CS 331 – Data Structures & Algorithms: CS 350 – Computer Org. & Assembly Lang Programming: CS 351 – Systems Programming and Calculus and knowledge of a high-level programming course such as C or Java may be substituted for C++
http://bulletin.iit.edu/undergraduate/courses/cs/
https://science.iit.edu/computer-science/programs/graduate/graduate-program-resources/prerequisite-undergraduate-coursework
During the application process, the courses passed and corresponding to CS 201, 401 and 402 may be indicated separately and uploaded with the transcript

For any **Master degree applicant to the DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING** proof of successful completion of the following courses are required: Probability & Statistics – Math 474 (3 US credits) and Signals and Systems – ECE 308 (3 US credits)
http://bulletin.iit.edu/undergraduate/courses/ece/
http://bulletin.iit.edu/undergraduate/colleges/computing/applied-mathematics/#coursestext

ILLINOIS TECH

EXAMPLES OF FIELDS OF STUDY AND CAREER PATHS

M.S. Autonomous Systems & Robotics – Career Path – Control systems engineer, Autonomous systems engineer, robotics engineer, interface developer, navigation & guidance systems engineer -
Median Salary – **Robotics Engineer** – 105K – skills required – Python, CS, Robotics, Communications, Automation

M.Eng Manufacturing Engineering – Career Path –**Mechatronics Engineer**
Median Salary – 105K – skills required –Troubleshooting, Problem solving – SolidWorks (CAD), Mechanical engineering, Mechatronics, Communications

M.Eng Materials Science Engineering – Career Path **Materials Scientists**
Median Salary – 99K – skills required –Communications, Chemical engineering, Materials Science, Research, chemistry

M.Eng Mechanical & Aerospace Engineering – Career Path **– Aerospace Engineer**
Median Salary -118K – skills required – mechanical engineering, management, aerospace Engineering, communications, systems

M.Eng AI, Computer Vision & control – Career Path – AI engineer, Computer vision Engineer, **Computer Information Systems engineer**
Median Salary – 153K – skills required –operations, planning, leadership, communications, management

M.A.S. Cybersecurity Engineering – Career Path –**Data Warehousing Specialist** –
Median Salary – 120K – skills required –Communications, management, leadership, Data Management, Operations….

LEARN MORE……

ILLINOIS TECH

August 2023-May 2024 cost - GRADUATE

Graduate level (Master's): **Cost per credit hour** = $1,712

Master's degree programs:30 credits ($51,360): 32 credits ($54,784) :
33 credits ($56,496)

Is the cost the same for all Master's degree programs? YES

Is the cost the same for domestic & international students? YES

Does IIT offer a partial merit scholarship? Yes – 9 credits ($15,408) for
Engineering/Tech and Stuart School of Business programs

Will the approval of transfer of credit reduce my cost? Yes – Less 6 credits or for
the Stuart School of Business 9 credits

**What will the total tuition cost be if one qualifies for admission and if approved for
the transfer of credit?** Example: 32 credit Master's (Eng/Tec/Sc)– 9 credits (scholarship) – 6
credits (transfer of credit if approved) = 17 credits to pay for x $1712 = **$29,104**

ILLINOIS TECH

Mandatory & Other fees
(August 2023-May 2024)

Student Service Fee	$1,500
Health Insurance	$2,286
Student Activity Fee	$250
U-Pass fee (optional)	$310
New Student Fee	$300
Graduation Fee	$200
Total:	**$4,846**

N.B.: Cost may change for the academic year August 2024-May 2025. Updates will be available by March 2024 on
 https://www.iit.edu/student-accounting/tuition-and-fees/future-tuition-and-fees/mies-campus-graduate

ILLINOIS TECH

August 2023-May 2024 cost - GRADUATE

Cost per Credit Hour: $1,712 (August 2023-May 2024) **ONLY APPLIES** to Europe partner school students pursuing 1-year Master level programs in Engineering/Technology/Science

Example if admitted to Illinois Tech:
32-credit hour Master $54,784

a)IIT Partner Alliance scholarship 9 credits   =   - $15,408
(if an applicant qualifies for admission to IIT)

b) Eligibility for a 2-course (6 c.h.) transfer credit =   - $10,272
  (if approved for Engineering/Technology)

Tuition total applying a) & b)   =   **$29,104**

ILLINOIS TECH

August 2023-May 2024 cost - GRADUATE

Cost per Credit Hour: $1,712 (August 2023-May 2024) **ONLY APPLIES** to Europe partner school students pursuing 1-year Master level programs in **Business**

Example if admitted to Illinois Tech:
33-credit hour Master $56,496

a)IIT Partner Alliance scholarship 9 credits   =   - $15,408
(if an applicant qualifies for admission to IIT)

b) Eligibility for a 3-course (9 c.h.) transfer credit =   - $15,408
  (if approved for Engineering/Technology)

Tuition total applying a) & b)   =   **$25,680**

ILLINOIS TECH

Is the Double degree program at Illinois Tech worth it?

- 2 degrees – in one year

- Wide variety of Master degree programs

- No quotas

- Work possibilities globally: in the U.S. – up to 3 years of work, if program is S.T.E.M. under the F1 student visa

- Experience in two different cultures, languages learning/pedagogical approaches

- Average annual salaries in the U.S. for Master degrees in Engineering/Technology/Business fields are high

- Good ROI (Return on Investment)

ILLINOIS TECH

About Illinois Tech

COMPARISON: **Starting Salary Undergraduate (Bachelor's level)**

Illinois Tech Average 2021
Undergraduate Salary:
$64,800

National 2021 Undergraduate Salary:
$55,911

<u>Advanced Degree (Master's) Starting Salaries</u>

The salary information listed below is based on student-reported starting salaries and data from Optional Practical Training (OPT)

Mean: $76,844   Yearly   **Median:** $70,661   Yearly

ILLINOIS TECH

Advantages/Benefits

New car = $29,000

Value when it leaves the showroom = -20%

Master's d'IIT : $29,000

Annual salary in the U.S. upon graduation = $65,000 (on average) (+20%)
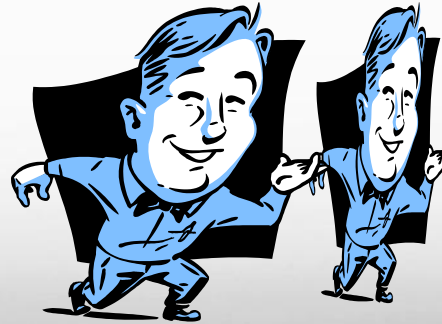
ILLINOIS TECH

TESTIMONIES

Best features "IIT's location in Chicago..

Great studying environment..proximity to offices of the biggest corporations in the U.S. opens access to face-to-face networking opportunities"

Was the experience worth it?

"..for students studying in France, it allows them to broaden their knowledge by getting familiar with American codes and design methods – one of the most used design & constructions standards in the world"

Financially – affordable and possible with IIT 's scholarship & other scholarships from the regional council in France

"It was a great experience because I was able to interact with people with different backgrounds and get education from highly competent and experienced professors"

M. Hamza SEKKAK
(MS CAE IIT 2017 – INSA Lyon)

ILLINOIS TECH

TECHPRO CERTIFICATE ONLINE PROGRAM

ILLINOIS TECH

Tech Pro Certificate program

Level – Master's
Delivery: Online – synchronous and/or asynchronous
Number of credits: 9 or 12 credits (3 or 4 courses)
Duration of completion: One semester or over two semesters
Outcomes: Upskilling and/or Pathway to a Master's degree program at IIT
Application deadlines: January 3- Spring: August 15 –Fall: May 15 - Summer
Webpage:
https://www.iit.edu/admissions-aid/graduate-admission/tech-pro-certificates

ILLINOIS TECH

Tech Pro Certificate program examples

Tech Pro Certificate program

Cost of the Certificate program (August 2023-May 2024) @$1712 per credit hour

	Actual cost	**50% scholarship**
9 credits	$15,408	$7,704
12 credits	$20,544	$10,272
13 credits	$22,256	$11,128

N.B.:
For partner school pre-selected student(s), a 50% scholarship will be offered per course (i.e. 3ch course = $5,136 @ 50% = $2,568), if the student chooses to take one or two courses in the certificate program that may apply to the Master's program at Illinois Tech should the student wish to pursue the DD program at Illinois Tech later

Or

b) 50% scholarship offered for the entire certificate program for pre-selected student(s)

*N.B.: **The New cost for August 2024-May 2025 will be posted in Feb/March 2024 on the Student accounting link below**: https:/:web.iit.edu/student-accounting/tuition-fees/future-tuition/main-campus-graduate*

ILLINOIS TECH

UNDERGRADUATE EXCHANGE PROGRAM (ETSAB-UPC)

Undergraduate Exchange program

Pre-selected by the home institution and completion of at least 3 years of study at ETSAB-UPC

Must be nominated by the home institution – nomination form - https://www.iit.edu/admissions-aid/undergraduate-admission/international-undergraduate-students/how-apply-international-undergraduate-students/international-visiting-and-exchange-students

Recommended application deadline April 15 for Fall and November 1 for Spring

List of courses to be taken at IIT Undergraduate level

Pursue courses for one semester or for one year (minimum 12 c.h. per semester)

Courses only at the Undergraduate level – Bachelor's (may be possible to take one Master level course only per semester)

TOEFL 80 ibt (not home edition) and 20 in all bands or IELTS 6.5 (not home edition) and 6.0 in all bands

Visa Type: J1 non-degree exchange

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UNDERGRADUATE VISITING PROGRAM (ETSAB-UPC)

ILLINOIS TECH

Undergraduate Visiting program

Pre-selected by the home institution – completion of at least 3 years of study in Architecture at ETSAB-UPC – limited spots available dependent on balance

Application information- https://www.iit.edu/admissions-aid/undergraduate-admission/international-undergraduate-students/how-apply-international-undergraduate-students/international-visiting-and-exchange-students

Recommended application deadline April 15 for Fall and November 1 for Spring

List of courses to be taken at IIT Undergraduate level

Pursue courses for one semester or for one year (minimum 12 c.h. per semester)

Courses only at the Undergraduate level – Bachelor's (may be possible to take one Master level course only per semester)

TOEFL 80 ibt (not home edition) and 20 in all bands or IELTS 6.5 (not home edition) and 6.0 in all bands

ILLINOIS TECH

Visa Type: J1 non-degree visiting

August 2023-May 2024 cost - UNDERGRADUATE

EXCHANGE STUDENTS:

COST FOR TUITION: Per semester $24,821.50   One year $49,643

Admitted exchange students to Illinois Tech **do NOT pay the tuition** (cost for courses) at Illinois Tech.

MANDATORY & OTHER FEES   Per semester ~ $ 3,960   One year ~ $4,696

VISITING STUDENTS:

COST FOR TUITION   Per semester $24,821.50

If the student qualifies for admission, the student will qualify for a partial merit scholarship of 10K for the semester = 14,821.50

Admitted exchange and visiting students to Illinois Tech pay the Mandatory and other fees in addition to Living and other expenses and/cost for pre-requisites or English language courses if required.

N.B. The cost for August 2024-May 2025 may change . New cost will be posted around Feb/March 2024
 https://www.iit.edu/student-accounting/tuition-and-fees/future-tuition-and-fees/mies-campus-undergraduate

ILLINOIS TECH

Student research

Are you ready to start the journey of a lifetime in Chicago at Illinois Tech?

ILLINOIS TECH

Questions??