UNIVERSITY OF
ILLINOIS
URBANA-CHAMPAIGN

The Grainger College of
Engineering
**Prospective Student
Informational Session & Tour**

About Us

We Have the Community

The depth and breadth of our community brings a global mindset into the classroom

14,100+
students total across our engineering degree programs, both grad and undergrad

8,300+
undergraduate students

2,020+
of our undergrad engineering students are women

930+
of our undergrads engineering students are Hispanic, African American, or American Native

We Have the Numbers

Our excellence is as broad as it is deep.

#7

overall among undergraduate programs in the U.S.

#10

overall among graduate programs in the U.S.

400+

world class faculty

19

Top 10 ranked undergraduate degree programs & specialties

We Have the Results

Your future starts here at Illinois.

94%

secured preferred first-destination upon graduation

$88,950*

average starting salary with a bachelor's degree

97,000+

alumni worldwide

$15,192*

average signing bonus

*3-year average; data reporting beginning with graduates in Dec 2019 – May 2022

Undergraduate Programs Office
UPO

206 Engineering Hall
engineering@Illinois.edu
217-333-2280

MISSION
The Grainger College of Engineering Undergraduate Programs Office is a welcoming and supportive group of professionals dedicated to empowering our students to engage, discover and succeed by providing world-class communities, resources and opportunities.

VISION
To inspire our students to expand their potential and impact the world.

Academics

Watch Video at:
go.grainger.Illinois.edu/MajorsVideo

Computer Engineering

19+ Undergraduate Degree Programs

grainger.illinois.edu/majors

1. Aerospace Engineering
2. Agricultural & Biological Engineering
3. Bioengineering
4. Chemical Engineering
5. Civil Engineering
6. Computer Engineering
7. Computer Science
8. Computer Science + Bioengineering *NEW!*
9. Computer Science + Physics *NEW!*
10. Electrical Engineering

11. Engineering Mechanics
12. Environmental Engineering *NEW!*
13. Industrial Engineering
14. Materials Science & Engineering
15. Mechanical Engineering
16. Neural Engineering
17. Nuclear, Plasma & Radiological Engineering
18. Physics
19. Systems Engineering & Design

NEW! **8** ## Computer Science + Bioengineering

- o SOLVE medical PROBLEM with computation
- o DESIGN advance diagnostic & therapeutic techniques & devices
- o STUDY biology, computation, & math

NEW! **12** ## Environmental Engineering

- o SOLVE sanitation, water, & air PROBLEMS
- o DESIGN sustainable systems & solutions
- o STUDY energy, climate, public health, math, computation, chemistry, & environment

16 ## Neural Engineering

- o SOLVE mobility, visual, & auditory PROBLEMS
- o DESIGN devices for living brain
- o STUDY Neuroscience, electrical, CS, Molecular Cellular Biology, Bioengineering
- o 1st to offer undergraduate degree

NEW! **9** ## Computer Science + Physics

- o SOLVE PROBLEMS impacting humanity
- o DESIGN quantitative models of physical systems
- o STUDY computing, physics, quantum computing

grainger.illinois.edu/majors

Not all engineering majors are in Grainger ENG.

We partner with 5 other colleges at Illinois to offer some of our majors:

1. College of Agricultural, Consumer and Environmental Sciences (ACES)

2. College of Fine and Applied Arts (FAA)

3. College of Media (COM)

4. College of Education (EDUC)

5. College of Liberal Arts and Sciences (LAS)

College of Agricultural, Consumer and Environmental Sciences (ACES)

- **Agricultural & Biological Engineering (ABE)**

- **Computer Science + Animal Sciences**

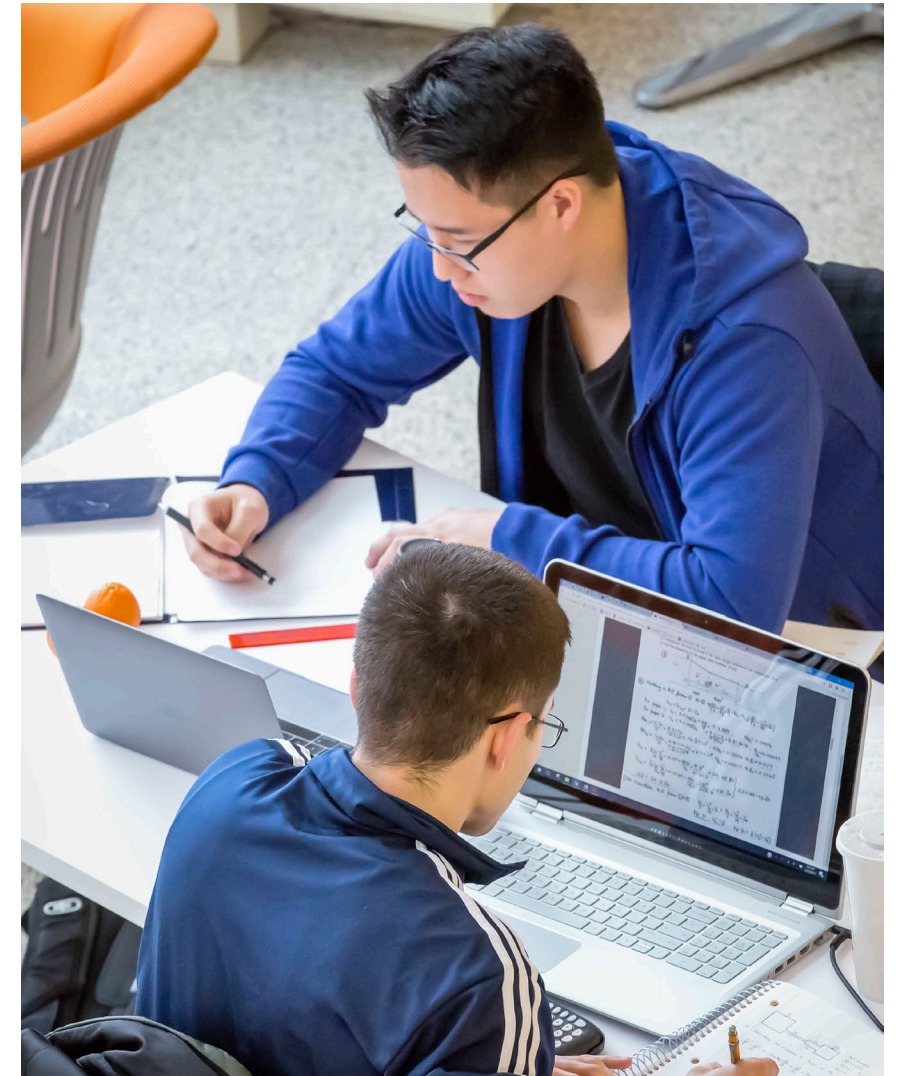- **Computer Science + Crop Sciences**

College of Media (COM)

- **Computer Science + Advertising**

College of Fine and Applied Arts (FAA)

- **Computer Science + Music**

College of Education (EDUC)

- **Computer Science + Education, Learning Sciences**

- **Computer Science + Education, Secondary Education**

College of Liberal Arts and Sciences (LAS)

- **Chemical Engineering**

- **Computer Science + Anthropology**

- **Computer Science + Astronomy**

- **Computer Science + Chemistry**

- **Computer Science + Economics**

- **Computer Science + Geography & Geographic Information Science**

- **Computer Science + Linguistics**

- **Computer Science + Philosophy**

- **Mathematics & Computer Science**

- **Statistics & Computer Science**

1. **All CS+ majors:**
   - One degree, not a double major, Bachelor of Science
   - Take the same core CS curriculum as the CS majors
   - Advance courses are in the "X" subject with computation infused

2. **CS+ majors are best for students with a passion for the "X" subject**

3. **Our CS+ graduates use computation in their "X" field or within companies that impact their "X" field.**

4. **CS+ majors have access to the CS <u>and</u> the "X" department's:**
   - Extra/Co-Curricular opportunities, academic advisors, & college career services

5. **Computer Science (CS), CS + Bioengineering, & CS + Physics are direct admit program only,** thus only incoming students can pursue these majors at Illinois.
   - ==Closed== to continuing students major changes and declarations

6. **All CS+ majors outside of Grainger Engineering are available to both incoming & continuing students.**

7. **CS minor guarantees admissions in UIUC graduate master's programs when GPA requirement is met.**

Computer Science + X:

ACES: Animal Sciences, Crop Sciences

COM: Advertising

EDUC: Education

FAA: Music

ENG: Bioengineering, Physics

LAS: Anthropology, Astronomy, Chemistry, Economics, Geography & Geographic Information Science, Linguistics, Philosophy

X + Computer Science:

LAS: Mathematics, Statistics

Admissions

3 Ways to Apply

First Year

Engineering Pathways

Transfer

3 Ways to Apply

First Year

Engineering Pathways

Transfer

Application Opens Sept 1st

Application Deadlines:

Nov 1st — Early Action

Jan 5th — Regular Decision

Apply via MyIllini or CommonApp

ACT/SAT Test Optional

APPLY up to 2 majors!

1st Choice Major: All majors available

2nd Choice Major: All majors available *except:
- Aerospace Engineering
- Bioengineering
- Computer Science (CS) **and** all CS+ majors
- Computer Engineering
- Mechanical Engineering

*This list does not include non-engineering majors

admissions.Illinois.edu/apply/freshmen

Be a Competitive Applicant: *Your academic preparedness is solely based on your high school's available courses.*

#1. Strong Math & Science GPA & foundation
- Physics, Biology, Chemistry
- Pre-calc and beyond

#2. Academic Rigor
- Honors
- Advance Placement (AP)
- International Baccalaureate (IB)
- Advanced level (A-Level)
- Dual enrollment

#3. Demonstrate Understanding of Major(s): SHORT ANSWER QUESTION
- Answer question fully, **aim to reach the word limit**
- Do your research to **show your understanding of the major**
- **Dig Deep!** Share your goals, dreams, or passions for this major or engineering
- Only talk about **CURRENT STEM experiences** (classes, camps, clubs, internship, jobs)
- **CS interest?** Share about a direct CS experience to demonstrate understanding beyond coding

3 Ways to Apply

First Year

Engineering Pathways

Transfer

GUARENTEED ADMISSIONS* into Grainger Engineering for Illinois residents!

*GPA & required coursework successfully met

- **Step #1:** Apply to <u>ANY</u> Illinois community college

- **Step #2:** Complete math placement testing
  - Must take Aleks math placement (score 76 or above) test at local community college

- **Step #3:** Submit Engineering Pathways Application between January – April
  - What do you need to apply? 1) Official High School Transcript with IP courses, 2) Community college student ID #, 3) math placement score
  - Application Website: go.grainger.illinois.edu/ApplyEngPathway

- **Step #4:** Enroll in required courses at community college for 1st & 2nd Year

- **Step #5:** Successfully complete coursework & maintain 3.5 GPA.

- **Step #6:** Apply to 2 engineering majors within college

- **Step #7:** Enroll in Grainger Engineering major at Illinois for your 3rd & 4th year

FAQs

When to apply?

- Senior year of high school OR
- After successful complete of Year 1 curriculum

Which engineering majors are available?

- Aerospace Engineering
- Agricultural & Biological Engineering
- Bioengineering
- Civil Engineering
- Computer Engineering
- Computer Science
- CS + Bioengineering
- CS + Physics
- Electrical Engineering

- Engineering Mechanics
- Environmental Engineering
- Industrial Engineering
- Materials Science & Engineering
- Mechanical Engineering
- Neural Engineering
- Nuclear, Plasma, & Radiological Engineering
- Physics
- Systems Engineering & Design

Visit website for more info:

Pathways.engineering.illinois.edu

admissions.illinois.edu/apply/pathways

Questions?
engineeringpathways@illinois.edu

3 Ways to Apply

First Year

Engineering Pathways

Transfer

Application Opens Dec 15th

Application Deadline

Mar 1st

- **Rolling admission decisions**

Apply via MyIllini

Application Requirements:

1. 3.0 GPA
2. Complete required coursework outlined in Transfer Handbook

Be competitive:

- B or higher grades in STEM classes
- Mastery of subject matter in prerequisite courses
- Complete the recommend technical coursework

APPLY up to 2 majors!

1st Choice Major: All majors available

2nd Choice Major: All majors available ***except:**

*This list does not include non-engineering majors
- Electrical Engineering (EE)
- Computer Science (CS)
- All CS+ majors
- Computer Engineering
- Mechanical Engineering

Resources

- Go.illinois.edu/transfer-handbook
- Go.illinois.edu/transfer-guide
- Transferology.com

admissions.Illinois.edu/apply/transfer

Finding Your Engineering Major

Choosing a Major

Home / Admissions / Undergraduate Admissions

At the University of Illinois, you can apply for up to two majors. If you have a strong passion for working in the engineering industry, we highly encourage you to select two engineering majors. This will prompt the admission review staff to exhaust all options to admit you into one of our engineering majors. To determine which programs to select as a first and second choice, follow the tips provided below.

Think about where your interests are focused, and decide how you want to apply them within disciplines of engineering.

For example, a student that is interested in robotics could major in electrical engineering to focus on designing the circuitry structure of the robot, or they could major in materials science & engineering to focus on determining the best materials for the robot. Other majors like mechanical engineering, computer science, computer engineering, and engineering mechanics could easily be applied as well for a career in robotics.

Majors and Minors

Which Major is Right for You?

Your path to Grainger Engineering starts with connecting your passion and interests with the opportunities available in one of our 15 top-ranked major programs. Take our majors quiz to discover which programs are a good fit for you, gather the information you need to take the next step and apply.

Take Our Majors Quiz
go.grainger.illinois.edu/majorsquiz

EXPLORE RELATED MAJORS

go.grainger.illinois.edu/ChooseAMajor

CONNECT YOUR INTEREST TO OUR MAJORS

FOR QUESTIONS, CONTACT:

The Grainger College of Engineering
Undergraduate Admissions & Recruitment
Engineering-uar@Illinois.edu
217-300-8489

Watch our Virtual Tour:
go.illinois.edu/EngTourVideo

1000+ total extracurricular groups