“any person... any study”
WELCOME TO Cornell Engineering

“I would found an institution where any person can find instruction in any study.”
—Ezra Cornell
A True University Experience

- Unparalleled depth & breadth
- 1600 Faculty
- 100 Departments
- 80 Majors
- 6000+ Courses annually
- 40 Languages taught
- 95 Research Centers & Institutes

Undergraduate Colleges & Schools

- College of Arts & Sciences (4,200)
- College of Agriculture & Life Sciences (CALS) (3,500)
- **College of Engineering** (2,900)
- College of Human Ecology (1,200)
- School of Hotel Administration (900)
- School of Industrial & Labor Relations (ILR) (900)
- College of Architecture, Art, & Planning (AAP) (500)
ANY PERSON... (2015 first-year class)

- 746 students
- 38 states and 18 nations
- 48% women
- 48% multicultural students
- 9% international students
- 789 Bachelor degrees awarded in 2015
ANY STUDY…
Departments & Schools

14 Undergraduate Majors

- Biological Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Science
- Electrical & Computer Engineering
- Engineering Physics
- Environmental Engineering
- Information Science, Systems, & Technology
- Materials Science & Engineering
- Mechanical Engineering
- Operations Research & Information Engineering
- Science of Earth Systems
- Independent Major

Cornell Engineering

www.engineering.cornell.edu/academics/departments.cfm
Academic Programs

19 Undergraduate Minors

- Aerospace Engineering
- Applied Mathematics
- Biological Engineering
- Biomedical Engineering
- Business for Engineering Students
- Civil Infrastructure
- Computer Science
- Electrical & Computer Engineering
- Engineering Management
- Engineering Statistics

- Environmental Engineering
- Game Design
- Industrial Systems & Information Technology
- Information Science
- Materials Science & Engineering
- Mechanical Engineering
- Operations Research & Engineering Science
- Science of Earth Systems
- Sustainable Energy Systems
Other Curricular Options

Additional Academic Opportunities

• Double major within engineering
• Dual-degree program with Arts & Sciences or AAP
• Minors in engineering or across the university
• Kessler Fellows Program (entrepreneurship program)
• Internships & Co-ops
• Masters in engineering – 5th year program
### Engineering Core Curriculum

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
<td>Physics/Chem/Bio</td>
<td>Major Requirements:</td>
<td>Approved Electives</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48 Credit Minimum</td>
<td></td>
</tr>
<tr>
<td>Intro to</td>
<td>Intro to CS</td>
<td>Tech Writing</td>
<td></td>
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<tr>
<td>Engineering</td>
<td></td>
<td>Core Courses + Electives</td>
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</tr>
<tr>
<td>Writing</td>
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<td></td>
<td>Liberal Studies Distribution</td>
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<tr>
<td>Seminars</td>
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<tr>
<td>Optional</td>
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</tbody>
</table>

**Major Requirements:**

- 48 Credit Minimum
- Tech Writing
- Core Courses + Electives

[www.engineering.cornell.edu/handbook](http://www.engineering.cornell.edu/handbook)
# Engineering Core Curriculum with Co-op

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>Math, Science, CS/Intro Engr, Writing Seminars</td>
</tr>
<tr>
<td>Sophomore</td>
<td>Major Requirements</td>
</tr>
<tr>
<td>Sum</td>
<td>CO-OP</td>
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</tbody>
</table>

[www.engineering.cornell.edu/handbook](http://www.engineering.cornell.edu/handbook)
World Class Faculty

**Student & Faculty Interactions**

- Academic advisors
- Advisors to engineering student organizations
- Supervise independent studies & research projects
- Faculty accessibility

**Dedicated to Teaching Undergraduates**

- 99% of classes taught by faculty
- Student to faculty ratio is 12:1
- 75% of classes < 25 students
- National Academy of Engineering Members, MacArthur Genius Award, Faculty of the Year, Academy Award, & Turing Award winners
Opportunities in Undergraduate Research

Total annual engineering research expenditures: $132.5 million

Recent Projects Include:

- Nanobiotechnology drug delivery
- Predicting tsunamis
- Turning color into sound
- Ornithopter flight
- Health monitoring apps
- Brain synapse mapping
- AguaClara

- 3-D printing
- Solar cookers
- Self-assembling robots
- Natural disaster response
- Humanoid robots
- Cancer marker research
- Voice recognition technology
### Project Teams

- ACM Programming
- AguaClara
- CUAUV (Autonomous Underwater Vehicle)
- ChemE Car
- Concrete Canoe
- Cornell Baja SAE Racing
- Cornell Cup
- Cornell Data Science
- Cornell Design Build Fly
- Cornell Mars Rover Team
- Cornell Rocketry
- Cornell University Sustainable Design
- CU Genetically Engineered Machines
- CU Air
- Engineering World Health
- Engineers for a Sustainable World (ESW)
- ESW-Biofuels
- Engineers without Borders
- Formula SAE
- Resistance Racing: Electric Motorcycle
- Seismic Design
- Steel Bridge
- Violet Satellite

### Highlights

- Interactions with alumni
- Industry connections
- Applied learning
- Function as a team
- Cutting edge innovation

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[www.cornell.engineering.edu/academics/undergraduates](http://www.cornell.engineering.edu/academics/undergraduates)
Engineering Student Services

- Academic advisors
- Learning Initiatives research & support programs
- Diversity Programs in Engineering (DPE)
  - Society of Women Engineers (SWE)
  - American Indian Science & Engineering Society (AISES)
  - National Society of Black Engineers (NSBE)
  - Society of Asian Scientists & Engineers (SASE)
  - Society of Hispanic Professional Engineers (SHPE)
  - Women in Computing (WIC)
- Co-op & Career services
- Peer tutoring
- Academic Excellence Workshops
- LeaderShape®
- Engineering Leadership Program

www.engineering.cornell.edu/alumni/family/support/services.cfm
Where are They Now?
Class of 2014 Statistics

- 86% graduated with a BS in Engineering
- 10% internal transfer rate

Example Alumni Jobs: Investment Banking Analyst • Catastrophe Risk Modeler • Game Developer • Wind Energy Analyst • Energy Engineer • Satellite Systems Engineer • Imagineer • Physician

www.engineering.cornell.edu/resources/career_services/index.cfm
Active Student Body

1,000+ Clubs & Student Organizations

- Fine & Performing Arts
- 37 Division I Athletic Teams
- 250+ Intramural/Club Athletic Teams
- Academic Teams
- 30+ Religious Organizations
- *Cornell Daily Sun* Newspaper
- Outdoor Education
- Greek System
- Community Service
- Leadership

www.engineering.cornell.edu/academics/undergraduate/curriculum/handbook/2013/organizations.cfm
Engineering By the Numbers

Admissions
Common/Universal Applications & Cornell Supplement available at: www.admissions.cornell.edu

Regular Decision Application Period
• Application submission deadline: January 2
• Decision notification: around April 1
• Deposit deadline: May 1

Early Decision Application Period
• Application submission deadline: Nov. 1
• Decision notification: around Dec. 15
• Deposit deadline: early January

Entering class 745 (goal)

Cornell Engineering
Review of Academics

• High school record – rigor of curriculum (AP, IB, college courses) & grade success
• High school profile & guidance counselor report
• SAT or ACT
• SAT Subject Tests (1 Math, 1 Science) - Math 1 or 2 & Biology E/M, Chemistry, or Physics

Personal Component

• 2 Teacher Evaluations
• Activities & Work
• Common/Universal Application Essay
• Cornell Engineering Essay:
  Tell us about an engineering idea you have, or about your interest(s) in engineering. Describe how your ideas and interests may be realized by - and linked to - specific resources within the College of Engineering. Finally, explain what a Cornell Engineering education will enable you to accomplish.
Financing Cornell

Goal: Remove financial barriers & allow students the opportunity to invest in a Cornell education

- Need blind admissions
- Committed to meeting 100% of need
- New financial aid initiative
- http://finaid.cornell.edu/ for forms (CSS Profile, FAFSA, & estimator) & information

Deadlines

- Early Decision Applications due November 1
- Regular Decision applications due January 2

For more info see: www.finaid.cornell.edu
Contact Us
We’re Here to Help!

Cornell Engineering
www.engineering.cornell.edu
engr_admissions@cornell.edu
607.255.5008
Thank You