

Engineering



Engineering at Drexel

Engineering is a career you can take in innumerable directions — from the oil fields of Texas to the boardrooms of Wall Street to the (as of yet) uninhabited corners of the globe. Whether your interest is in design, research, production, or even medicine, an engineering degree provides both versatility and superb employment potential. People with degrees from the College of Engineering find careers as:

- Electrical engineers who develop electrical equipment for digital communications, radar and surveillance, and robotics
- Environmental engineers who seek to develop more effective methods of cleaning and preventing public health hazards
- Mechanical engineers who specialize in a variety of areas such as aerospace, biomechanics, health care, and nuclear technology

Drexel Co-op: Knowledge at Work

Classroom learning, research, projects, papers, and exams are all critical to your academic pursuits. But it takes experience in a chosen field to set you apart from other graduates. With Drexel Co-op, you can gain up to 18 months of résumé-enhancing experience by the time you receive your degree. Drexel's engineering students have completed co-ops with:

- ConocoPhillips Company
- Klein and Hoffman, Inc.
- Lockheed Martin Corporation
- Shell Chemicals

Engineering Majors

- Architectural Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Engineering
- Engineering for Still-Deciding Students®
- Environmental Engineering
- Materials Engineering
- Mechanical Engineering
- Software Engineering

Accelerated Degrees

Visit www.drexel.edu/em/ug/accelerated to find out which engineering majors are eligible for accelerated degree programs.

About Engineering

To learn more about the College of Engineering visit www.drexel.edu/coe.



Alisa Morss

PhD, Massachusetts Institute of Technology

P.C. Chou Assistant Professor, College of Engineering

Professional organizations

- American Association for the Advancement of Science
- American Society of Mechanical Engineers
- Society of Women Engineers

What interests me most about my field of study

"Applying engineering principles to biology to improve health care and develop solutions to medical problems."

Current research

"How the combination of altered mechanical and biochemical stimuli in blood vessels leads to cellular dysfunction and eventually disease, specifically that of diabetes to accelerated cardiovascular disease."

What I like most about teaching college students

"I enjoy the challenge of presenting complicated material in a way that is both clear and relevant. I also enjoy meeting students, learning about their interests and goals, and advising them as to how best reach those goals."

Resources: The Classroom and Beyond

At Drexel you will start your education in the classroom, but your experience won't end there. Extracurricular resources and opportunities available to engineering students include:

- **Center for Telecommunications and Information Networking:**
A research division of Drexel's Department of Electrical and Computer Engineering, the center conducts state-of-the-art research in wired and wireless telecommunications and networking.
- **Fiber Optics and Photonics Manufacturing Engineering Center:**
Develops educational programs and performs advanced research in fiber optics, with an emphasis on manufacturing technologies.
- **Global Engineering Education Exchange (Global E3):** Students receive academic credit for courses taken at an overseas institution, and practical training in a foreign setting for a summer, semester, or academic year. Countries include Australia, Austria, Denmark, Finland, France, Germany, Hong Kong, Hungary, Japan, Mexico, Singapore, Sweden, Turkey, and the United Kingdom.
- **University Libraries:** Four library branches serve the educational and research needs of students and faculty at Drexel. The Electronic Learning Center located in Hagerty Library on the University City Main Campus lends laptops, software, and DVDs to students.

Student Activities: Draw from Your Experience

Student activities are a great way to meet new people and stay active on campus. At Drexel students have a lot to choose from, starting with:

- More than 180 cultural, media, social, and professional organizations
- Performing arts groups, such as dance, music, and theater, which are open to any student regardless of major
- Varsity, club, and intramural sports teams

Some organizations that might interest engineering students include:

- American Institute of Chemical Engineers
- Biomedical Engineering Society
- Institute for Electrical and Electronic Engineers
- National Society of Black Engineers
- Society of Hispanic Professional Engineers
- Society of Women Engineers





Campus Living: Home Is Where Your Stuff Is

Drexel's residence halls are very popular stops on campus tours. Probably because prospective students know that a residence hall is more than just a place to sleep. Calhoun, Kelly, Myers, Towers, and Van Rensselaer are first-year residence halls, reserved exclusively for freshman and transfer students. To see details and stats about each hall, visit www.drexel.edu/rlo/halls.

In addition to serving as a home away from home, residence halls are also a place where students can create the academic and social environment they crave. Some residential options available to students include:

- **Learning Communities:** The Engineering Learning Community enables engineering majors to live in close proximity, making it easier to form informal study groups, work on group projects, and organize social and academic activities.
- **Race Street Hall:** Drexel's newest hall is the residence for students in the Pennoni Honors College. To learn more about the Honors College, visit www.drexel.edu/honors.
- **Residence Hall Association (RHA):** RHA consists of groups of residents organized to provide educational and social programs and activities for fellow residents.

Philadelphia: A City of Opportunities

Philadelphia is a great place to live, work, and study. Here are some attractions from which Drexel students benefit:

- **Fairmount Park:** Fairmount Park is Philadelphia's 9,200-acre citywide park system. Relaxing on a bench by a majestic statue, rollerblading down Kelly Drive on the weekends, biking the many paths, visiting a historic mansion, or attending a concert are some of the activities available to students and residents.
- **Pennoni Associates, Inc.:** Headquartered on Drexel's campus, this engineering consulting firm serves local, state, and federal governments; private, commercial, industrial, and construction clients; as well as other professional firms. The Pennoni Honors College at Drexel is named in recognition of chairman C.R. "Chuck" Pennoni's contributions to the University.
- **Rohm and Haas:** Headquartered in the historic center of downtown Philadelphia, this international maker of chemicals encourages unique and innovative products used in a variety of industries such as construction, automotive, and electronics to improve quality of life.



Rob Falcone

Electrical Engineering
Broomall, Pennsylvania

Co-op experiences

- EwingCole
- Lockheed Martin

Professional goal

- Director or administrator in a large corporation

Clubs and organizations

- Captain of the Beasts from East intramural sports club
- Executive ambassador and overnight program coordinator for the Office of Admissions
- President of the DAC Pack, Drexel basketball's student section

Favorite Drexel hangout

"Buckley Turf — there's no better place when the weather is nice; everyone is out and about, having fun."

Best thing about Drexel

"Drexel Co-op augments the fantastic classroom education and our location in University City allows us to experience college life, while having the rest of this great city at our fingertips."

Enrollment*

Total undergraduate	13,197
Total graduate and professional	7,488
Total enrollment	20,685

Academic Profile*

Average GPA (on a 4.0 scale)	3.5
Average combined SAT score	1200
Average class rank (top percentile)	22.5
On average, Drexel freshmen graduated in the top 22% of their high school class.	

Undergraduate Programs

73 full-time programs

Colleges and Schools

- Arts and Sciences
- Biomedical Engineering, Science, and Health Systems
- Business
- Education
- Engineering
- Information Science and Technology
- Law
- Media Arts & Design
- Medicine
- Nursing and Health Professions
- Pennoni Honors College
- Professional Studies
- Public Health

Admission Prerequisites

Students applying to an engineering major will need to complete the following courses:

- Four years of mathematics
 - Algebra I and II
 - Geometry/Trigonometry
 - Precalculus/Calculus
- One year of chemistry (with lab)
- One year of physics (with lab)

*Numbers from previous year



Financial Aid and Scholarships

Your education is an important investment. At Drexel we are committed to providing you with information and resources to help you with the cost of a college education. The first step toward receiving financial aid is to complete the Free Application for Federal Student Aid (FAFSA) available online at www.fafsa.ed.gov beginning January 1. Students starting college the following fall should submit it by March 1 for maximum financial aid consideration. Drexel uses the information provided on the FAFSA to award need-based grants and scholarships.

For specific information about loan programs, grants, and scholarships, call 1-877-DREXEL-5 to speak with a representative from EdFinancial Services. EdFinancial Services provides a call center with trained staff to answer questions about paying for a college education. The staff at the call center are not Drexel employees but are employed by EdFinancial Services. They are required to give all students independent, expert advice about paying for a college education.

To learn more about financing options, visit www.drexel.edu/financialaid. To contact a representative from Drexel's Student Resource Center/Financial Aid office, visit <http://ask.drexel.edu>.

Visit Us

The best way for you to learn about Drexel is to visit campus. We offer a variety of options to meet your needs. For more information on the programs below or to receive a schedule of upcoming events, go to www.drexel.edu/em/ug/visit or call 1-800-2-DREXEL (1-215-895-2400 for international students).

Open Houses: If you want to explore everything Drexel has to offer (all in one day), attend an Open House. Held on weekends in the fall and spring, Open Houses are large-scale campus events that offer information about academics, Drexel Co-op, student activities, and campus life.

Experience Drexel Days: Offered throughout the year, Experience Drexel Days are ideal if you want a broad overview of Drexel's offerings. Experience Drexel Days are half-day programs to provide you with a glimpse of life at Drexel, with informative sessions, tours of campus, and an academic fair.

Campus Visit: Consisting of an Information Session and a student-guided tour, Campus Visits are perfect if you want a more intimate introduction to Drexel. Campus Visits are offered on weekday mornings and afternoons and on Saturday mornings.

Apply

Apply to Drexel University online at www.drexel.edu/apply. The application fee is waived for students who apply online or during a campus visit.

Contact Us

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