ENGINEERING, COMPUTING, & DATA ANALYSIS

AT DREXEL UNIVERSITY

DREXEL UNIVERSITY
PHILADELPHIA, PA

Because Advancement Can't Wait

Drexel's Perelman Plaza

A NOTE FROM OUR
SENIOR VICE PRESIDENT FOR ENROLLMENT MANAGEMENT

Are you passionate about data, critical thinking, and technology? Does your curiosity fuel your desire to comprehend complex robotics and solutions? If so, the engineering, computing and data analysis, and information systems programs at Drexel University might be right for you.

Drexel is a premier comprehensive university that engages in the highest levels of research and has been preparing students through practical and experiential education for over 125 years. Our innovative model of learning pairs world-class academics with real-world experience, uniquely preparing students to thrive and excel in their fields.

Having served as a successful blueprint of career training since 1919, our cooperative education program (known as co-op) provides students with the opportunity for professional work before graduation. Drexel Dragons experience their chosen industries with the leaders of today and gain the necessary firsthand knowledge to become the leaders of tomorrow. Students leave our doors on graduation day with a full understanding of the path they have chosen.

This is a place that will allow you to develop your skills and encourage you to use them for the greater good. Utilizing academic and volunteer-based partnerships with our community, our students are among the most engaged students in the nation. They are not only making an impact on campus but also in the city of Philadelphia and around the world through academics, service, and leadership.

At Drexel, you can make your mark on the world. I encourage you to explore our engineering, computing, data analysis, and information systems programs – along with everything else this great University has to offer you.

Sincerely,

Evelyn K. Thimba
Senior Vice President for Enrollment Management
Enrollment Management & Student Success

01 ENGINEERING

Drexel Bossone Cancer Research Lab

Much of human progress can be attributed to the ingenuity of engineers. It is the curiosity of those who choose this path that drives creation and leads the inventions that improve the functionality of civilization. Virtual reality, the skyscraper, and the electric car are all results of an inquisitive mind built upon a scientific approach. Through these innovations, engineers change the way that we interact with one another and allow us to enjoy a heightened quality of life. Whether you wish to usher in the next wave of renewable energy technology, print 3D biological tissue for cancer research, or build the cities of tomorrow, Drexel will hone your skills and bring you to the forefront of engineering.

From day one, you'll connect with your field through experience-based academics. You'll also make great strides in the betterment of society at large through Drexel's cooperative education program and by performing collaborative research side-by-side with thought leaders in your respective industry. By the time you graduate and are ready to enter the workforce, you will have already built a résumé of real-world experience and knowledge that will set you apart from your peers. Learn more about our engineering programs at **drexel.edu/academics**.
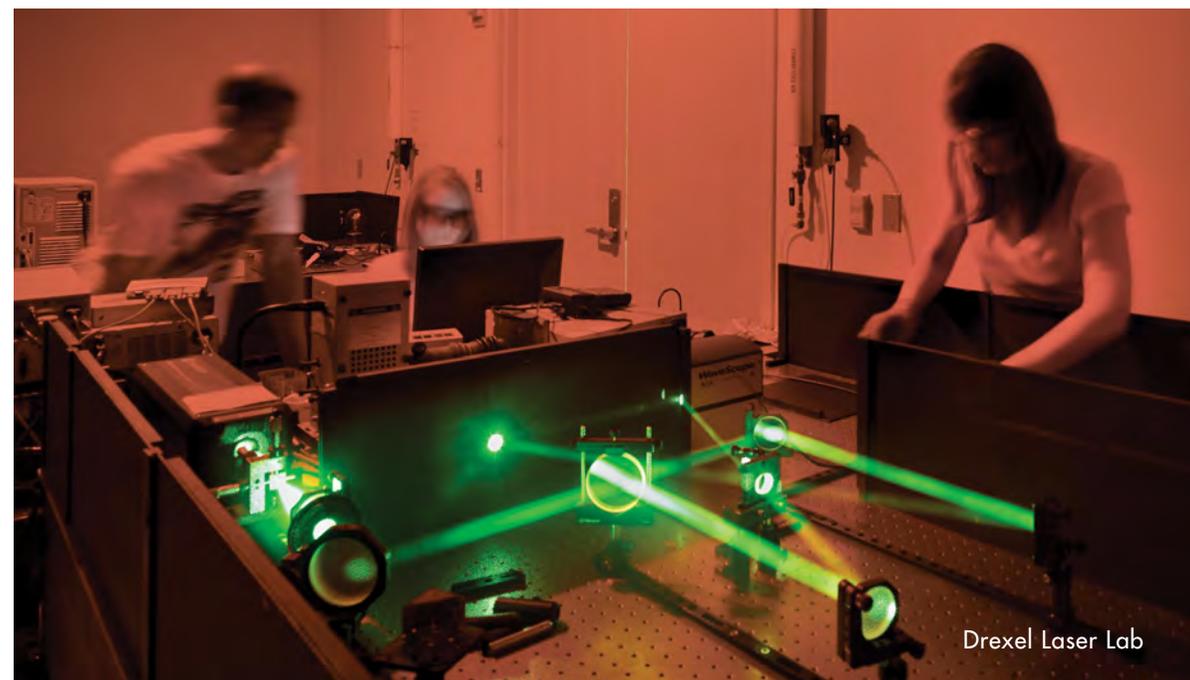
Drexel Laser Lab

MAJORS

- Architectural Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Construction Management
- Electrical Engineering
- Engineering Technology
- Environmental Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Undeclared Engineering

Drexel Computing Classroom

02

COMPUTING & DATA ANALYSIS

Engineers, scientists, marketers, writers, and artists utilize advanced tools in order to accomplish their goals. All of these fields have seen great leaps in technological advancement thanks to breakthroughs in computation and data manipulation. Between the engineering and science that leads to the next generation of computer technology and the data collection that fuels a company's growth, a Drexel education will provide you the foundation needed to drive advancement in your industry.

Whether your goal is to test thermal imaging hardware, create today's most powerful computer processor, or develop a groundbreaking smartphone app, Drexel provides the knowledge you'll need by focusing on the connection between people, information, and technology. With the opportunity to teach code to the next generation and participate in Philly Codefest (Drexel's annual 36-hour student-organized hardware and software hackathon), you'll tackle both local and global challenges that society faces today.

This unique combination of traditional learning and hands-on experience gives you the opportunity to collaborate with leading professionals in your field and make a true difference in today's data-driven world. Learn more about our computing and data analysis programs at **drexel.edu/academics**.

Drexel Co-op, Sirius XM Radio

MAJORS

- Business Analytics
- Computer Engineering
- Computer Sciences
- Computing and Security Technology
- Data Science

- Undeclared – Computer and Information Sciences

03

INFORMATION SYSTEMS

Drexel Classroom

The way that we interact with and use technology enables us to make informed decisions on how we govern finance, supply and demand, and even politics. Without the ability to navigate complex processes efficiently, humanity would never have landed on the moon, developed artificial intelligence systems, or created the smartphone, allowing us to scour the internet for any knowledge we seek. Those who wish to enhance the way that we utilize technology have vastly improved the quality of lives around the world.

At Drexel, you'll learn the intricacies of high-level system design, databases, and human-computer interaction through diverse research opportunities and real-world application. Whether you're applying information technology in a Fortune 500 company, security firm, or government agency, you will work hand-in-hand with leading professionals to bridge the gap between complicated computer data and business. Our cooperative education program will blend your classwork into firsthand experience as you translate people's needs into robust systems that improve efficiency — all before you graduate.

Through Drexel's information systems programs, you can use your technological, business, and communication skills to enhance the human experience and make an impact on the world around you. Learn more about our information systems programs at **drexel.edu/academics**.

MAJORS

- Information Systems
- Management Information Systems
- Software Engineering
- Technology and Innovation Management

Drexel Computing Lab

Babak Anasori - MSE - Barsoum Group - MAXMET fracture surface

Arianna Watters - CB

0% SWNT

Drexel Nanotechnology Lab

WANT TO KNOW WHAT DREXEL IS REALLY LIKE?

GET A FIRSTHAND PERSPECTIVE

PaperClip is a collection of unique stories about Drexel experiences written by students. Learn more at **paperclip.drexel.edu**.

Our Admissions Blog gives you the insider's view of Drexel University. From tips about the admission process to a preview of life on campus and in Philly, you'll learn from those who know it best. Learn more at **drexel.edu/undergrad/blog.**

Drexel Rush Gardens

NASA Zero Gravity Plane, Johnson Space Center

SCHOOL OF BIOMEDICAL ENGINEERING, SCIENCE AND HEALTH SYSTEMS

The School of Biomedical Engineering, Science and Health Systems promotes health and quality of life through education, research, and innovation that integrates engineering and life sciences in a global context. The school teaches students to develop solutions and see opportunities to translate science into saving lives and improving health while encouraging expansive collaboration and networking that will prepare them for the world's emerging biomedical challenges.

LEBOW COLLEGE OF BUSINESS

LeBow provides students with the knowledge, skills, and confidence to succeed in highly competitive business-related fields, and also houses the School of Economics. Students at LeBow will build a strong foundation by tackling industry challenges and receiving personalized attention from leading faculty who bring their industry research into the classroom. With programs that emphasize analytical thinking and hands-on learning, students begin preparing for their futures now.

COLLEGE OF COMPUTING & INFORMATICS

The College of Computing & Informatics instills the knowledge and skills necessary for our students to lead and innovate across industries in a rapidly evolving technological landscape. Building on Drexel University's exceptional foundation of entrepreneurship and cooperative education, we provide unparalleled professional experiences and the on-the-job training that is vital to preparing today's students for tomorrow's world.

COLLEGE OF ENGINEERING

The College of Engineering is an academically comprehensive, globally engaged institution that prepares students for research and leadership in fields like civil, architectural, computer and cybersecurity, mechanical, materials, and chemical engineering, and more. Through renowned faculty who engage in their own translational research, students connect to the world around them and to the exciting advances that target and solve society's greatest challenges.

Drexel Campus

SCHOOL OF BIOMEDICAL ENGINEERING, SCIENCE AND HEALTH SYSTEMS

The school offers many resources for expanding thinking and encouraging collaboration with other colleges and schools at Drexel. A few highlights include:

- **Bossone Research Enterprise Center,** which features various specialized labs dedicated to research in biomedical systems and imaging, biomechanics, biomaterials and tissue engineering, bioinformatics and computational engineering, cardiovascular engineering, neuroengineering, and drug delivery.
- **Coulter-Drexel Translational Research Partnership Program,** which promotes, develops, and supports innovations through translational research for improving patient care.

LEBOW COLLEGE OF BUSINESS

Housed in Gerri C. LeBow Hall on our University City Campus, the college features resources for interdisciplinary experience. A few highlights include:

- **Drexel Solutions Institute,** which fosters connections with industry to provide interdisciplinary learning projects, cutting-edge curricula, and valuable co-op opportunities.
- **Dornsife Office for Experiential Learning,** which provides practical opportunities for project-based learning and an understanding of business problem solving.
- **Center for Business Analytics,** which enables student participation in data-driven industry collaboration and the application of analytics across industries.
- **Institute for Strategic Leadership,** which provides a hands-on approach to understanding leadership trends and behaviors through experiential learning and real-world connections.
- **Trading Lab,** a technology lab with Bloomberg Terminals that is home to The Dragon Fund, a student-managed equity portfolio that oversees $2.25 million.

COLLEGE OF COMPUTING & INFORMATICS

The college is located in a brand new, state-of-the art building that was designed with the student experience in mind. Students and faculty work closely together on a range of projects, as well as with colleagues and fellow students from across the University. A few highlights include:

- **Metadata Research Center,** advancing research in metadata, semantics, and other areas that address today's most pressing information management challenges.
- **Philly Codefest,** a signature event for the College of Computing & Informatics, this annual 36-hour software and hardware hackathon brings together Drexel students with working professionals to focus on creative solutions to real-world problems.
- **Women in Computing Initiative,** an extensive, college-wide, strategic initiative dedicated to increasing the number of women students across the college.
- **RePlay Gaming Lab (in collaboration with the Digital Media program),** where students develop and produce potential game ideas.

COLLEGE OF ENGINEERING

The College is located on our University City campus in the Bossone Research Enterprise Center, a state-of-the-art facility that is home to nanotechnology labs, information networking, and smart infrastructure spaces as well as research avenues for all Drexel students. A few highlights include:

- **The Innovation Studio,** a 20,000-square-foot makerspace combining design and fabrication where first-year engineering students begin doing hands-on engineering design as early as their first day. Working together, students generate concepts in the classroom space before taking their designs to production via 3D printers, the wood shop, or the Drexel Machine Shop, only steps away.
- **A.J. Drexel Nanomaterials Institute (DNI),** the College's newest lab, is one of the best-equipped in the world for the synthesis, characterization and electrochemical testing of novel materials, with room for up to 50 researchers. Across the College, research opportunities are widely available to undergraduates through the University's STAR program, department programs, and faculty research labs.

THIS IS DREXEL

ABOUT US

1891 founded

15 colleges & schools

our mascot is Mario the Dragon

the barcode was created here

Ranked in the **TOP 100 UNIVERSITIES** for Lifetime Earnings by Georgetown University's *Center on Education and the Workforce* in 2019

Drexel Rowing Team won six consecutive **DAD VAIL REGATTA** titles

First University to have a fully **WIRELESS CAMPUS**

Historic recordings by **DAVID BOWIE** are being restored in our Audio Archives

CONNECTIONS

ACADEMY OF NATURAL SCIENCES OF DREXEL UNIVERSITY
Home to President Thomas Jefferson's fossil collection

ExCITe CENTER
An incubator enabling transdisciplinary research, discovery, and mingling with research mentors

BARNEGAT BAY, NEW JERSEY
Students study animal life in this research center on the beach

STUDENT LIFE

Over **350** clubs, organizations, and intramural sports teams

Over **30** fraternities & sororities

18 Division I Teams

WKDU student-run radio station

PHILADELPHIA, PA IS OUR HOME

Home of the Philly **CHEESESTEAK**

the Declaration of Independence was signed here

Over **250,000** college students

LOVE also known as the City of Brotherly Love

5 major Philly sports teams: Flyers, Phillies, Eagles, 76ers, and Union

COOPERATIVE EDUCATION

Founded in **1919**

More than **1,550** co-op employers

Students have co-ops in

22 states (+ Washington, D.C. & Puerto Rico)

44 countries

CAMPUSES

UNIVERSITY CITY
The University's main campus

– Philadelphia, PA

CENTER CITY
Home of the College of Nursing and Health Professions

– Philadelphia, PA

QUEEN LANE
The University's main medical campus

– East Falls, PA

DREXEL UNIVERSITY ONLINE

– Everywhere

AROUND CAMPUS

10 residence halls

Drexel Recreation Center named one of Philly's **BEST GYMS**

15+ on-campus places to eat

Home of North America's largest **BIOWALL**

Food Trucks all over campus

EXPERIENTIAL LEARNING

In 1891, A.J. Drexel founded this University with the dream to establish an institution that would fully prepare its students to excel in their future careers. To meet his vision, Drexel has developed a model of learning that takes students beyond the typical collegiate experience by combining world-class academics with real-world application. Our students are challenged to apply what they've learned in the classroom by working alongside mentors and industry professionals who push the boundaries of knowledge and achievement.

As a leading research institution, Drexel carries a long and storied history of innovation. Here, you'll not only assist faculty and staff with major projects, but you'll also have the opportunity to take the lead in your own studies — including graduate-level research during your first year — in our state-of-the-art facilities and labs. You will be encouraged to ask important questions and consider how the answers you find impact the world around us.

For over 100 years, our curriculum has also featured our cooperative education program, which enables students to test-drive different careers while learning side-by-side with the leaders of their respective field. Through Drexel Co-op, students can build an impressive résumé and gain up to 18 months of professional work experience in the United States and globally at Fortune 500 companies, nonprofits, startups, a variety of governmental agencies, and more. The majority of co-ops are paid and, of those that are paid, the median paid six-month co-op salary is more than $18,000. Co-op will allow you to explore your options and narrow down your interests, ensuring you are on a fulfilling career path that meets your needs and expectations. With each experience, you'll gain a unique working perspective that can't be found in any textbook, allowing you to serve as a knowledgeable resource for fellow classmates and professors, as well as inform classroom instruction moving forward.

The Steinbright Career Development Center, one of the largest collegiate co-op and career services teams in the world, sets you up for success at Drexel from day one. Whether you're looking for potential co-op employers, research opportunities, or post-graduate endeavors, Steinbright connects you to Drexel's constantly growing network of employers and industry leaders while also building your résumé and interview skills through workshops and information sessions. Our unique combination of world-class career services and dedicated counseling professionals will help guide you to discover your interests and develop your professional tools.

Drexel Co-op, Susquehanna International Group, LLP

Steinbright Career Development Center

Barnegat Bay Research Site

ENHANCED OPPORTUNITIES

At Drexel, learning goes well beyond the traditional classroom. We encourage our students to pursue different opportunities, such as studying abroad, immersing themselves in the local community, and developing their own course of study.

Honors Program: At the Pennoni Honors College, the Honors Program serves as a catalyst for enhanced intellectual exploration. Composed of curious and active learners, this program offers exclusive access to Philadelphia events, advising and mentoring, dedicated housing, and a Living Learning Community, along with specialized opportunities to complete service and develop leadership skills. Honors students in this program are scholastic ambassadors at Drexel, raising their academic experience to the next level.

Civic Engagement: We believe in the importance of giving back to local communities — there are always opportunities to make an impact and serve the community here. Students can get involved on campus through Drexel's Lindy Center for Civic Engagement and the Dornsife Center for Neighborhood Partnerships during community-based learning courses and volunteering for community service. But our impact doesn't stop there; our dedication reaches out globally to improve the world around us.

Study Abroad in Capri, Italy.

Custom-Designed Major: The Custom-Designed program is suited for highly motivated students whose interdisciplinary curiosity and ambition cannot be satisfied by a traditional major. This path enables you to pursue an individualized course of study in place of an existing major, either by developing a plan with your advisor or by combining existing majors and minors to match your career goals. As a student in this unique program, you'll be advised by staff from the Honors College and mentored by a Drexel faculty member who has expertise in at least one of the areas in your course of study.

Global Opportunities: These options include study abroad, international co-op, and more. All Drexel students can take advantage of study abroad, which enables them to live and learn in another country while immersing themselves in the culture. Using our worldwide connections, you can choose from six continents and 65 countries! International co-op takes study abroad one step further; students not only live in another country, but also gain work experience as they test-drive a potential career. Students currently on international co-op are working in over 44 countries.

Civic Engagement Opportunities in Philadelphia

A CONNECTED COMMUNITY

Philadelphia, Pennsylvania, is a revolutionary town founded on revolutionary thinking — much like the ambition Drexel students have for influencing change in the world. As the sixth largest city in the United States, the City of Brotherly Love is an extension of our campus and as a student here, you'll take full advantage of all it has to offer.

Philly culture is known for being as diverse as its many neighborhoods. From our University City Campus in the hub of Philadelphia's higher-learning community, it's easy to get to the stadiums in South Philly, take in some history in Old City, and enjoy the park in Rittenhouse Square. When you're not in classes, there is plenty to do, no matter how you like to spend your free time. Being in the fifth most walkable city in the country according to Walk Score has its perks: concerts, performances, restaurants, and athletic events are all easy to access.

Public transportation is just steps away from campus — it's easy to enjoy an authentic cheesesteak and then visit the famous Philadelphia Museum of Art. You will find that all areas of the city are interconnected by simple means of travel, and getting to historic sites around the city or connecting to various locations across the country is an easy task. Living in Philadelphia provides access to everything from farmers' markets in Lancaster County to ski and snowboarding locations in the Pocono Mountains to the best beaches in the Mid-Atlantic.

Independence Hall

Rittenhouse Square
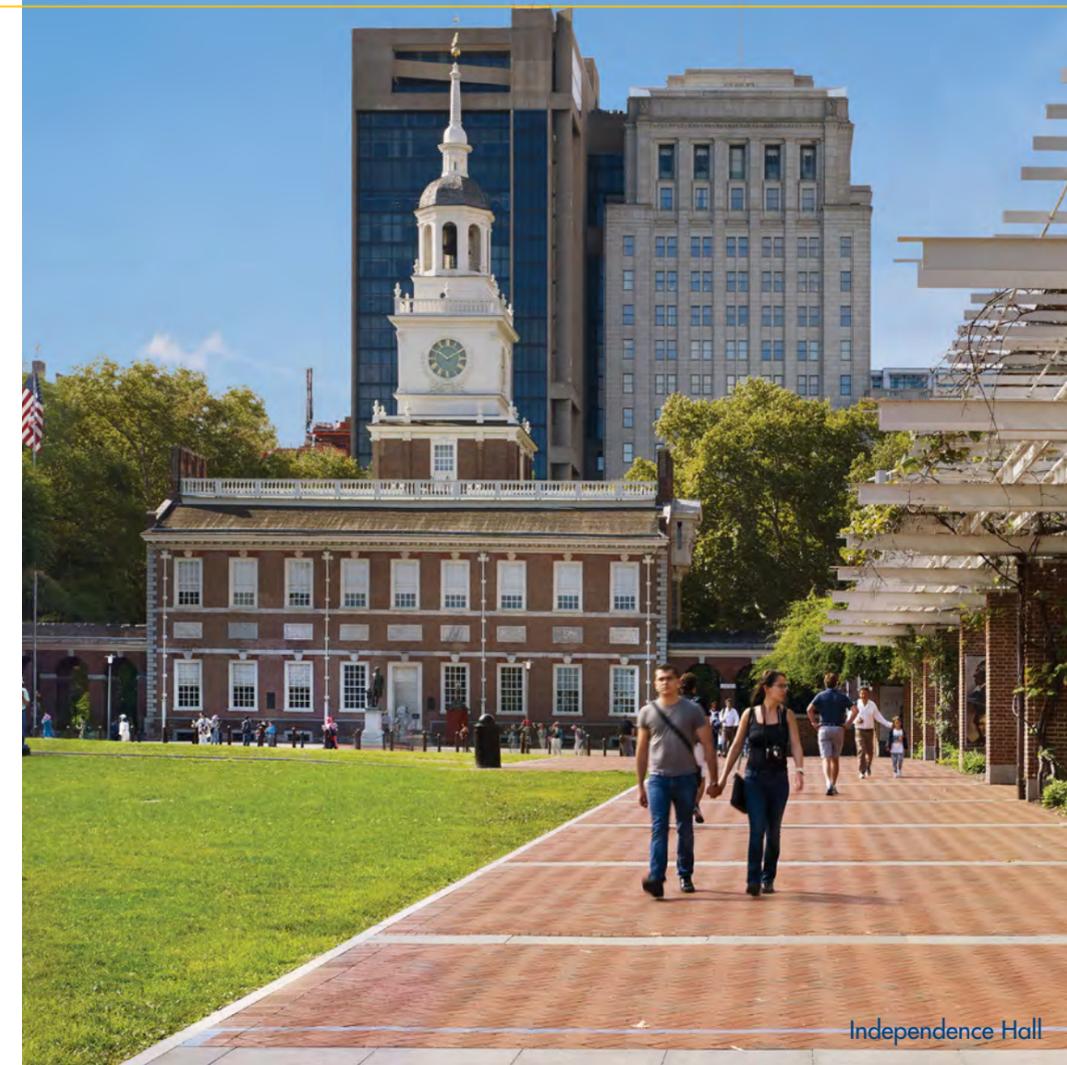
MAJORS

College of Arts and Sciences
- Biological Sciences
- Chemistry
- Communication
  – Communication
  – Journalism
  – Public Relations
  – Technical and Science Communication
- Criminology and Justice Studies
- English
  – Literary Studies
  – Writing
- Environmental Science
- Environmental Studies and Sustainability
- Geoscience
- Global Studies
  – Global Business, Economics, and Development
  – Global Health and Sustainability
  – Global Justice and Human Rights
  – Global Media, Arts, and Culture
- History
- Mathematics
- Philosophy
  – Ethical Theory & Practice
  – Philosophy & Law
  – Philosophy, Technology, & Service
- Philosophy, Politics, and Economics
- Physics
- Political Science
- Psychology
- Sociology
- Undeclared — General Humanities and Social Sciences*
- Undeclared — Science*

School of Biomedical Engineering, Science and Health Systems
- Biomedical Engineering

LeBow College of Business
- Accounting
- Business Analytics
- Business and Engineering
- Finance
- General Business
- International Business
- Legal Studies
- Management Information Systems
- Marketing
- Operations and Supply Chain Management
- Organizational Management
- Real Estate Management and Development
- Sport Business
- Technology and Innovation Management
- Undeclared — Business*

College of Computing & Informatics
- Computer Science
  – Computer Security
  – Game Programming and Development
- Computing and Security Technology
- Data Science
- Information Systems
- Software Engineering
- Undeclared — Computer and Information Sciences

School of Economics
- Economics

School of Education
- Elementary Education
- Secondary Education
- Education, Non-Certification

College of Engineering
- Architectural Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Construction Management
- Electrical Engineering
- Engineering Technology
- Environmental Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Undeclared — Engineering*

Close School of Entrepreneurship
- Entrepreneurship and Innovation
  – Corporate Entrepreneurship
  – Entrepreneurship and Innovation (Three-Year Option)*
  – New Venture Creation
  – Social Entrepreneurship

Pennoni Honors College
- Custom-Designed Major

Westphal College of Media Arts & Design
- Animation & Visual Effects
- Architecture***
- Art History
- Dance
- Design & Merchandising
- Entertainment & Arts Management
- Fashion Design
- Film & Television
- Game Design & Production
- Graphic Design
- Interactive Digital Media
- Interior Design
- Music Industry*
  – Business
  – Recording Arts and Music Production
- Photography
- Product Design
- Screenwriting & Playwriting
- Virtual Reality & Immersive Media
- Undeclared — Design*
- Undeclared — Media*

College of Nursing and Health Professions
- Behavioral Health Counseling
- Culinary Arts and Science
  – Culinary Science
  – Food and Beverage Management
- Health Sciences
  – Pre-Physician Assistant
  – Pre-Physical Therapy
- Health Services Administration
- Hospitality Management
- Nursing
- Nutrition and Foods

Goodwin College of Professional Studies
- First-Year Exploratory Studies
  – Humanities and Social Sciences
  – STEM
- General Studies****

Dornsife School of Public Health
- Public Health

Accelerated Degrees
- BS in Business/MBA
- BS in Computing and Security Technology/MBA
- BS in Culinary Arts and Science/MBA
- BS in Design and Merchandising/MBA
- BS in Entertainment and Arts Management/MBA
- BS in Hospitality Management/MBA
- BS in Information Systems/MBA
- BS in Music Industry/MBA
- BS in Sport Business/MBA

- BA/BS/MS in Communication
- BA/MS in Library and Information Science
- BS/MS in Accounting
- BS/MS in Biomedical Engineering
- BS/MS in Computing & Informatics
- BS/MS in Education
- BS/MS in Engineering
- BA in Philosophy/MS in Public Policy
- BS/MS in Psychology

- BA/BS+MD Early Assurance Combined Program (Medicine)

- BA/BS/JD (Law)

- BS/DPT in Physical Therapy

- BS/MHS in Physician Assistant

- BS/MPH in Public Health

Note that transfer students cannot transfer directly into accelerated degree programs, but can speak with their advisors about doing so once they have enrolled at the University.
* Not eligible for transfer students
** A second bachelor's degree program
*** Available to transfers as a part-time program only. Not available to international students.
**** Available to transfers only

The Writer's Room

FIRST-YEAR APPLICATION PROCESS

There is no typical Drexel student. Our students are ambitious, curious, complex, and bold. Candidates are selected based on their ability to thrive in our unique academic environment and make contributions to our diverse community. Through a contextual and holistic review process, we carefully consider each applicant, evaluating their personal qualities, academic journey, and intellectual promise.

Application Deadlines

EARLY DECISION .... NOVEMBER 1
Early Decision is the perfect option for students who know Drexel is the number one school for them. This is a binding admission plan and, if admitted, students must withdraw all other active applications and commit to enrolling at Drexel.

EARLY ACTION .... NOVEMBER 1
Early Action means that students can apply by an earlier deadline to receive an admission decision sooner than students who apply Regular Decision. Early Action admission is not binding.

REGULAR DECISION .... JANUARY 15
Through the Regular Decision application process, students will receive a decision in early spring.

Submitting your Application

First-year student applications are accepted through either the Common Application or the Coalition Application.
drexel.edu/admissions/apply

Standardized test scores

Drexel requires standardized test scores from all first-year applicants, but we offer some flexibility in which test(s) will fulfill that requirement. For non-native English speakers, there may be additional testing requirements.
drexel.edu/undergrad/apply/freshmen-instructions/standardized-tests

Financial Aid

Financial aid is available to domestic and international students in the form of merit scholarships and need-based grants. There are a few applications you should learn about to maximize the financial aid you are eligible for, such as the Free Application for Federal Student Aid (FAFSA) and CSS Profile.
drexel.edu/undergrad/financing

Lancaster Walk

TRANSFER APPLICATION PROCESS

There are many reasons you may consider transferring to Drexel, and as you make your transition, we'll be here to help you every step of the way. Drexel has a vibrant and active transfer community. Qualified applications are considered on a rolling basis through all terms. Applications must be received one month prior to the start of the term for which you are applying.

Application Deadlines

STARTING TERM	APPLICATION REVIEW BEGINS IN
Fall (September)	December
Winter (January)*	October
Spring (Late March/Early April)*	November

*Not all majors enroll in our off-terms

Submitting your Application

Transfer students may submit applications through the Common Application or Drexel University's Admission Application.
drexel.edu/undergrad/apply/transfer

Financial Aid

Drexel offers competitive financial aid opportunities for transfer applicants. While students will be reviewed for scholarships during the admissions review process, we highly recommend filing the Free Application for Federal Student Aid (FAFSA) and CSS Profile as soon as possible to maximize their eligibility for support.
drexel.edu/undergrad/financing

VISIT

There are many different ways to visit Drexel University throughout the year, including Open Houses, daily visits, Transfer Tuesday and Thursday events, and more.
drexel.edu/admissions/visit

VIRTUAL TOUR

If you can't make it to campus, don't worry; our virtual tours will give you an insider's look into Drexel University. Whether you'd like to learn about restaurants in the area, what to do in University City, or even the best places to hear some local music, you can see it all through our virtual tours.
drexel.edu/virtual-tour

KEEP IN TOUCH

Our Office of Admissions is always here to help. If you have any questions, please do not hesitate to contact us:

215.895.2400
enroll@drexel.edu
drexel.edu/undergrad

Drexel
UNIVERSITY

**AMBITION
CAN'T
WAIT**

3/20.16016