SCIENCE AND MATHEMATICS

AT DREXEL UNIVERSITY



Because Progress Can't Wait

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EGRATED SCIENCES RU

A NOTE FROM OUR SENIOR VICE PRESIDENT FOR ENROLLMENT MANAGEMENT

Are you interested in the nature of the physical universe? Would you like to further develop your critical thinking and reasoning skills in order to develop solutions to the world's most complex problems? If so, the mathematics or science programs at Drexel University might be right for you. A Drexel education will place you at the forefront of these exciting fields.

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 positioning 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 sciences and mathematics 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

PHYSICAL SCIENCES

The scientific mind is focused on the exploration into the intricacies of the universe. Those who choose the inquisitive path of the physical sciences are met with a seemingly endless journey of discovery, whether it be the study of star formations in an observatory, the unravelling of quantum theory, or the application of chemical compounds to create life-saving medicines. By majoring in the physical sciences, you will have the opportunity to better understand and build upon the laws of the world we live in.

A Drexel education will allow you to customize your journey to meet your specific interests and bring you to the forefront of science. Through hands-on research and interdisciplinary study, you will have the opportunity to tackle complex social, cultural, economic, and political issues that can vastly improve the quality of human life and add to the lexicon of human knowledge. With our cooperative education program, you will experience the scientific industry through real-world application and collaborate with leading professionals in your field — all before you graduate.

Through a Drexel education, you will gain knowledge and experience that will set you apart from your peers and equip you to make a positive impact on the future of humanity. Learn more about our physical sciences programs at **drexel.edu/academics**.





- MAJORS
- Chemistry
- Environmental Studies and Sustainability

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- Geoscience
- Physics
- Undeclared Science
- Undeclared –
- First-Year Exploratory Studies (STEM)



If the physical sciences reveal fundamental scientific laws, the life sciences utilize these building blocks to navigate the biological and ecological elements of our world. Between the intertwined relationships of all biological life on earth, you'll find dedicated professionals who appreciate, treasure, and protect the environment in which we reside and the living beings within it. The scientists that serve these fields of study indulge in the manipulation of cells for cancer research, the conservation practices that keep an ecosystem thriving, and maximize crop production to battle world hunger.

Through Drexel's unique academic model, you will find yourself collaborating with the expert faculty and professionals who are at the forefront of cutting-edge research, tackling these challenges. At Drexel, great minds have continuously improved the way we live and interact with the natural world.

With this combination of traditional learning and professional experience, you will be ahead of the game and make a lasting impression on the scientific world. Learn more about our life sciences programs at **drexel.edu/academics**.



LIFE SCIENCES

MAJORS

- Biological Sciences
- Environmental Science
- Environmental Studies and Sustainability
- Health Sciences
- Nutrition and Foods
- Undeclared Science
- Undeclared First-Year Exploratory Studies (STEM)

PSYCHOLOGICAL SCIENCES

The life and physical sciences are designed and explored by the collective perception and experience of the human mind. Consciousness is what allows humanity to acknowledge and interact with our surroundings, but what is it that manifests this ability? How does the mind operate and, better yet, can we apply this knowledge to better the lives of those around us? If you're interested in seeking the answers to these questions, Drexel University is the place to start your journey.

Understanding the psychological sciences is imperative to comprehending the behavior and mental health of communities and individuals. Hand in hand with the thought leaders of the psychological community, you can help explore, map out, and aid the human mind in ways never seen before. Drexel gives you direct access to patients as well as the highest-caliber professionals of the psychological community. Whether in the classroom or while on co-op, you will have the opportunity to treat mental health issues, develop new methods of brain mapping, counsel hospice patients, and more.

Here, you can make a difference in mental health practices, research hospitals, school districts, and within communities as a whole. Learn more about our psychological sciences programs at **drexel.edu/academics**.





MAJORS

- Behavioral Health Counseling
- Psychology



All sciences are only possible through the foundation of mathematics. Mathematics powers the algorithm that services a search engine, the economic theory that sustains advanced society, and the data collection necessary to conduct any scientific experiment. As human knowledge expands, so does the math behind it, continuing and driving new innovations. It takes a rigorous education to solve these complex puzzles.

Through Drexel's mathematics curriculum, you will gain a foundation of abstract reasoning and computing, and then tailor your degree to fit your interests. Alongside distinguished faculty and internationally praised mathematicians, you will join the experts that push us forward by answering the questions that address the challenges of tomorrow.

Whether your focus lies in economics, mathematics, or education (you can choose to receive an additional secondary teaching degree from our STEM major program, DragonsTeach), a Drexel education will set you up for success within your field. Learn more about our mathematics program at **drexel.edu/academics**.



MATHEMATICS

MAJORS

- Economics
- Education
- Mathematics

COLLEGES

COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences challenges students to see beyond their own perspectives, understanding the problems of today to pioneer the solutions of tomorrow. With a diverse range of programs spanning the humanities, social sciences, and sciences, faculty and students continue to drive positive change in the world, whether it be through cancer research, environmental sustainability, or disaster preparedness. The college provides a comprehensive, real-world education that empowers graduates to respond confidently to the world's most pressing issues - now and long into their future.

SCHOOL OF EDUCATION

Our School of Education prepares high-quality teachers through a carefully designed blend of practice and research-based experiences. Students in our teacher education programs gain experience in classrooms starting in their first year, enabling them to graduate with extensive experience beyond that offered in most other teacher education programs. For students interested in education, but not becoming a certified teacher, the School of Education offers a BS in Education non-certification. designed to support civic-minded students who would like to pursue careers connected to education in areas such as nonprofits, learning technologies, etc.

COLLEGE OF NURSING AND HEALTH PROFESSIONS

The College of Nursing and Health Professions prepares students to become successful clinicians and health professionals who excel in a rapidly changing health care system. Students build strong professional foundations as they engage in hands-on experiential learning, and through mentorship of expert faculty and experienced leaders in health care, research, and practice, they are equipped to lead the way in improving health, reducing health disparities and guiding the next generation of nursing and health care professionals.

SCHOOL OF ECONOMICS

The School of Economics is ranked among the best in the world for research on international trade, with leading faculty scholars in banking, monetary and fiscal policy, and industrial organization. Members of the faculty have published in the American Economic Review, RAND Journal of Economics, Review of Economics and Statistics, and more. Housed within the LeBow College of Business, the School of Economics is a wellestablished discipline in curricula and instrumental in business solutions.



COLLEGE OF ARTS AND SCIENCES

The College's diverse academic programs provide countless hands-on experiences across campus and beyond. Students collaborate across disciplines in labs, research facilities, and creative spaces, including:

- Academy of Natural Sciences of Drexel University, ranked by Best College Reviews as the #2 "Most Amazing Higher Ed Natural History Museum" in the country! The Academy offers students access to exciting research opportunities and more than 18 million specimens and archival collections.
- Drexel Publishing Group (DPG), a resource that comprises popular University literary publications such as 5027mac, Painted Bride Quarterly, and The 33rd.
- Joseph R. Lynch Observatory, home to a 16-inch Meade Schmidt-Cassegrain telescope, the largest in Philadelphia.
- Maya, Drexel's student-run undergraduate publication, featuring literature and artwork.
- Papadakis Integrated Sciences Building, a130,000 square-foot LEED Gold-certified facility with state-of-the-art teaching and research laboratories, classrooms, and North America's largest biowall.
- Weight, Eating and Lifestyle (WELL) Center, an interdisciplinary clinical research center that aims to develop, test, and distribute new behavioral and technological solutions for problems such as obesity, poor diet, sedentariness, and disordered eating.

SCHOOL OF ECONOMICS

Located in Gerri C. LeBow Hall on the University City Campus, the School of Economics features resources for interdisciplinary experience, including:

- Drexel Business Institute, which fosters connections with industry to provide interdisciplinary learning projects, cuttingedge curricula, and valuable co-op opportunities.
- Institute for Strategic Leadership, which provides a handson 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.

FACILITIES & RESOURCES

SCHOOL OF EDUCATION

As a practice-based school, the School of Education has many resources for students. A few highlights include:

- Field Placement Office, which connects students to strong mentor teachers and a wide variety of learning experiences at each stage of their professional development.
- Kappa Delta Pi International Education Honor Society and the Future Educators of Drexel, two student organizations that allow interactions and networking with fellow classmates through social and community education events.
- West Philadelphia Promise Neighborhood, a cradle-tocareer program for children living in communities just beyond Drexel's University City campus. School of Education faculty and students lead education programs at seven schools in the neighborhood.

COLLEGE OF NURSING AND HEALTH PROFESSIONS

The College is located on our Center City Campus and has many resources and community-based initiatives that reinforce best practices in health care. A few highlights include:

- Stephen and Sandra Sheller 11th Street Family Health Services at Drexel University, a health center where nursing, nutrition sciences, behavioral health counseling, health sciences and health administration students learn from the nurse leaders and clinicians.
- Center for Interprofessional Clinical Simulation and **Practice**, which allows students to safely practice patient interactions and care in clinical settings on computerized manikins and standardized patient actors, enhancing students' skills prior to real patient contact.
- The Human Anatomy Laboratory, which provides a unique hands-on learning experience for undergraduate and graduate students taking human anatomy courses.
- Community Wellness HUB, which introduces students to the collaborative care model and allows them to experience community health and wellness.
- AgeWell Collaboratory, which brings researchers, educators, and community organizations together to reimagine health care for our aging population and offers students learning opportunities to explore ways to improve healthy aging across the lifespan

THIS IS DREXEL

ABOUT US

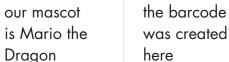
891 founded

5 colleges & schools



our mascot

Dragon



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

Home of the Philly CHEESESTEAK



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

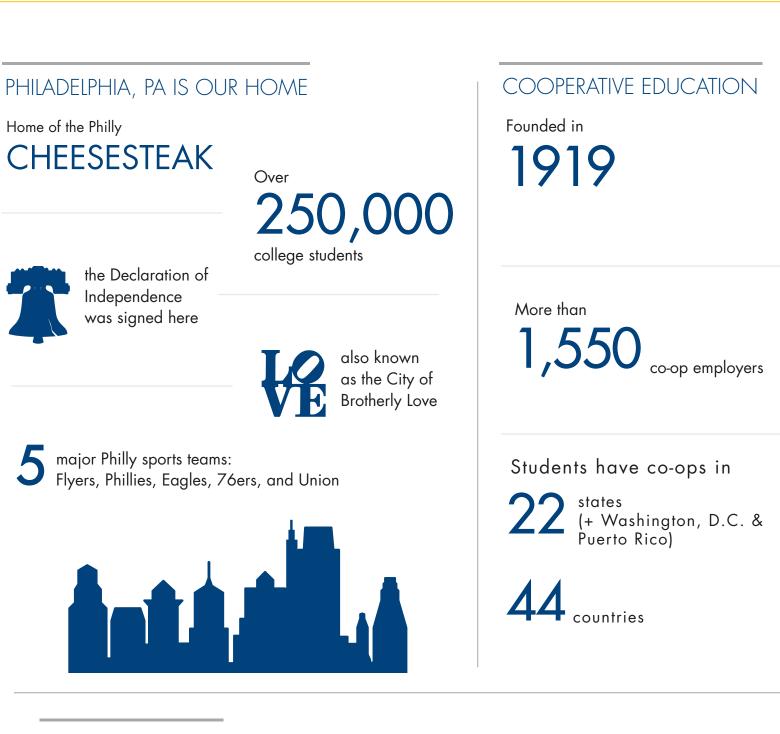
clubs, organizations, and intramural sports teams

8 Division I Teams

Over

fraternities & sororities

student-run radio station



AROUND CAMPUS



Drexel Recreation Center named one of Philly's

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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



15+ on-campus places to eat

Home of North America's largest

BIOWALL

Food Trucks all over campus

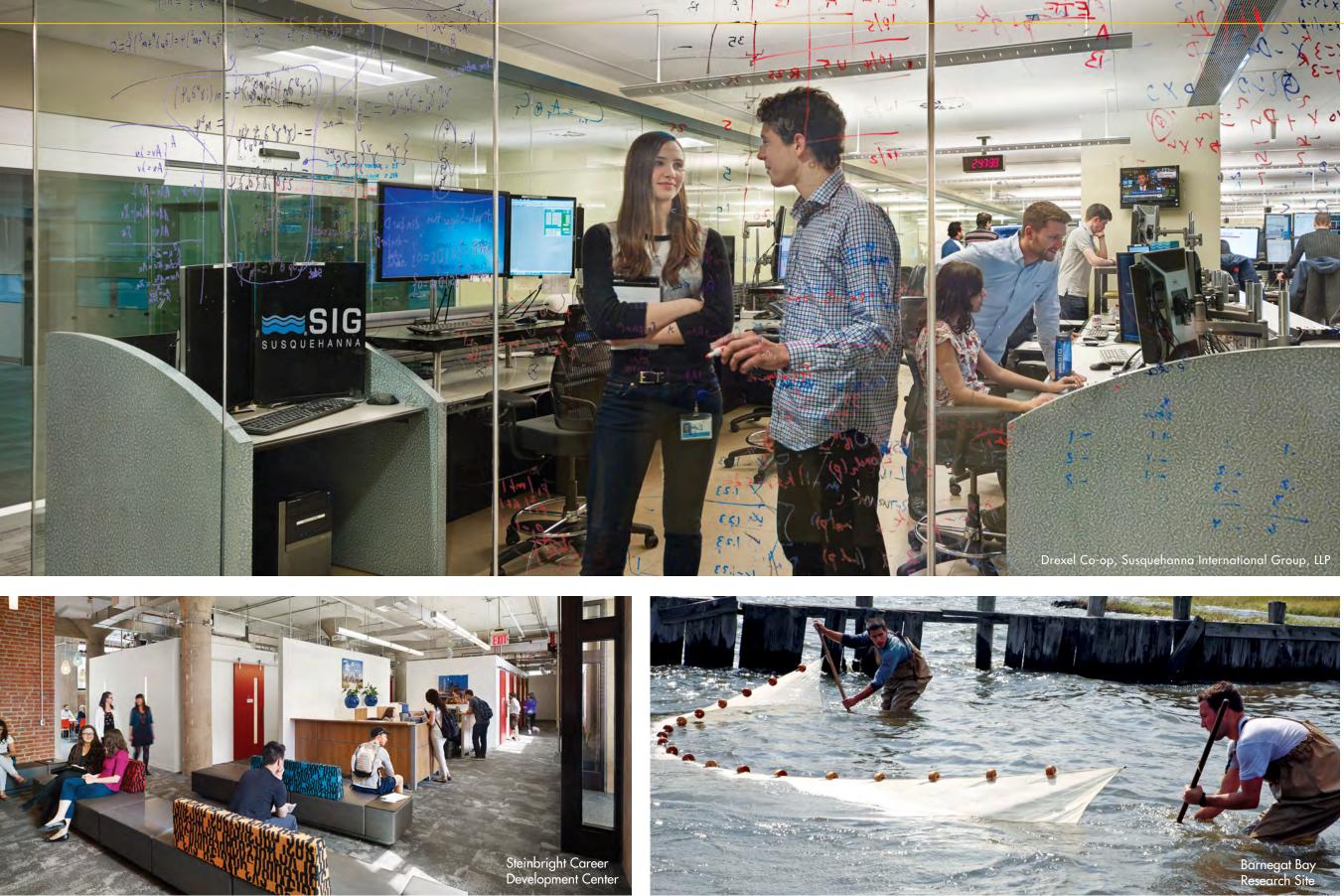
EXPERIENTIAL LEARNING

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 sixmonth 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.





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.

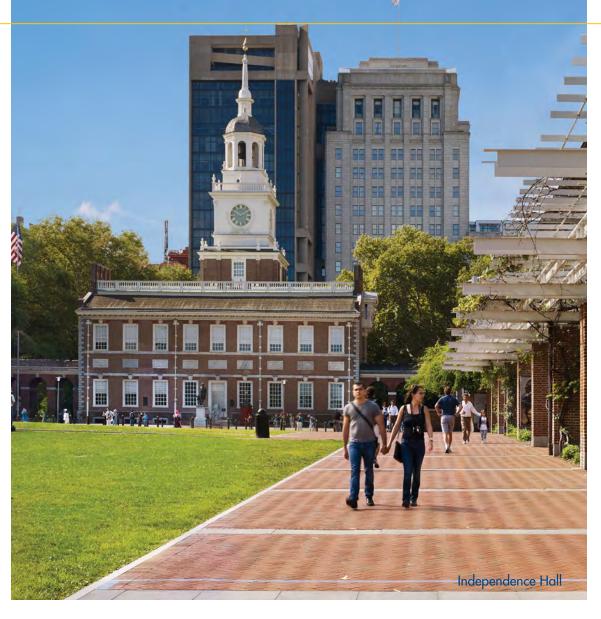
Civic Engagement: We believe in the importance of giving back to local communities — there are always opportunities to make an impact and serve the community here. Students can get involved on campus through Drexel's Lindy Center for Civic Engagement and the Dornsife Center for Neighborhood Partnerships during communitybased 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.





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.





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.

MAJORS

College of Arts and Sciences

- Biological Sciences
- Chemistry
- Communication
- Communication
- lournalism
- 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

- Recording Arts and Music Production

- Fashion Design
- Film & Television
- Game Design & Production
- Graphic Design
- Interactive Digital Media

• Screenwriting & Playwriting

• Undeclared — Design*

• Undeclared – Media*

Health Professions

- Culinary Science

• Health Sciences

Nursing

– STEM

College of Nursing and

• Culinary Arts and Science

– Pre-Physician Assistant

• Health Services Administration

- Pre-Physical Therapy

Hospitality Management

• Nutrition and Foods

Goodwin College of

Professional Studies

• General Studies****

• First-Year Exploratory Studies

– Humanities and Social Sciences

Behavioral Health Counseling

- Food and Beverage Management

• Virtual Reality & Immersive Media

• Interior Design Music Industry*

– Business

• Photography

Product Design

Dornsife School of Public Health

• Public Health

Accelerated Degrees

• BS in Computing and Security

• BS in Entertainment and Arts

• BS in Information Systems/MBA

• BA/BS/MS in Communication

• BS in Music Industry/MBA

• BS in Sport Business/MBA

• BA/MS in Library and

Information Science

• BS/MS in Accounting

• BS/MS in Education

• BS/MS in Engineering

• BS/MS in Psychology

Program (Medicine)

• BS/DPT in Physical Therapy

BS/MPH in Public Health

* Not eligible for transfer students

**** Available to transfers only

** A second bachelor's degree program

available to international students.

• BS/MHS in Physician Assistant

• BA/BS/JD (Law)

• BS in Business/MBA

Technology/MBA

Management/MBA

• BS in Culinary Arts and Science/MBA • BS in Design and Merchandising/MBA

• BS in Hospitality Management/MBA

• BS/MS in Biomedical Engineering • BS/MS in Computing & Informatics

• BA in Philosophy/MS in Public Policy

• BA/BS+MD Early Assurance Combined

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.

*** Available to transfers as a part-time program only. Not



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

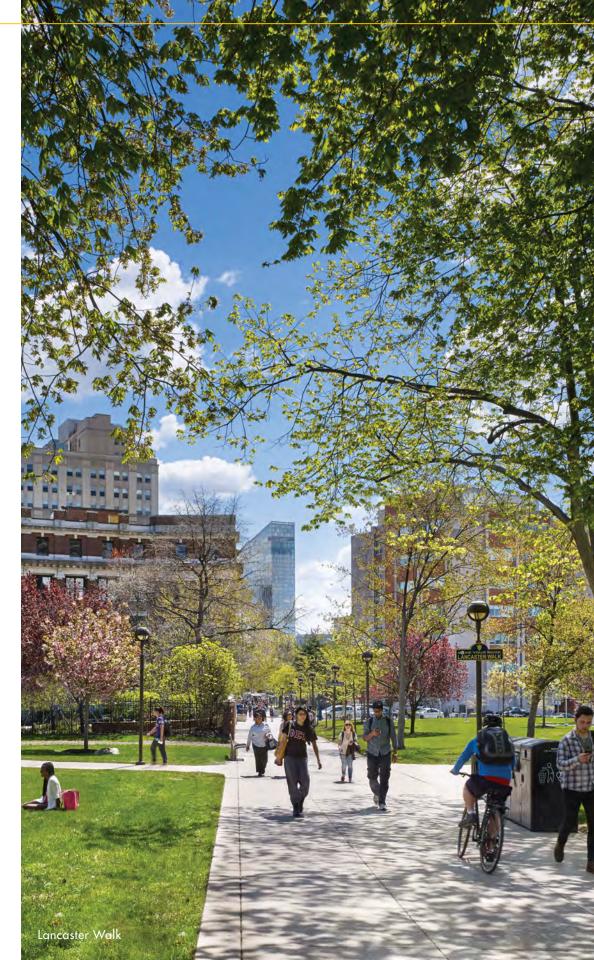
Drexel requires standardized test scores from all first-year applicants, but we offer some flexibility in which test(s) will fulfill that requirement. For non-native English speakers, there may be additional testing requirements.

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



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:

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