SCIENCE AND MATHEMATICS

AT DREXEL UNIVERSITY





A NOTE FROM OUR DEAN OF UNDERGRADUATE ADMISSIONS

Are you interested in the nature of the physical universe? Would you like to further enhance 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 global R-1 level research institution that 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,

Michael J. Keaton

Dean of Undergraduate Admissions

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



LIFE SCIENCES

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, the maximization of crop production to battle world hunger, and more.

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**.



MAJORS

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

PSYCHOLOGY

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 psychology 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 the highest-caliber professionals of the psychology industry. Whether in the classroom or while on co-op, you will have the opportunity to tackle mental health issues, develop new methods of brain mapping, and more.

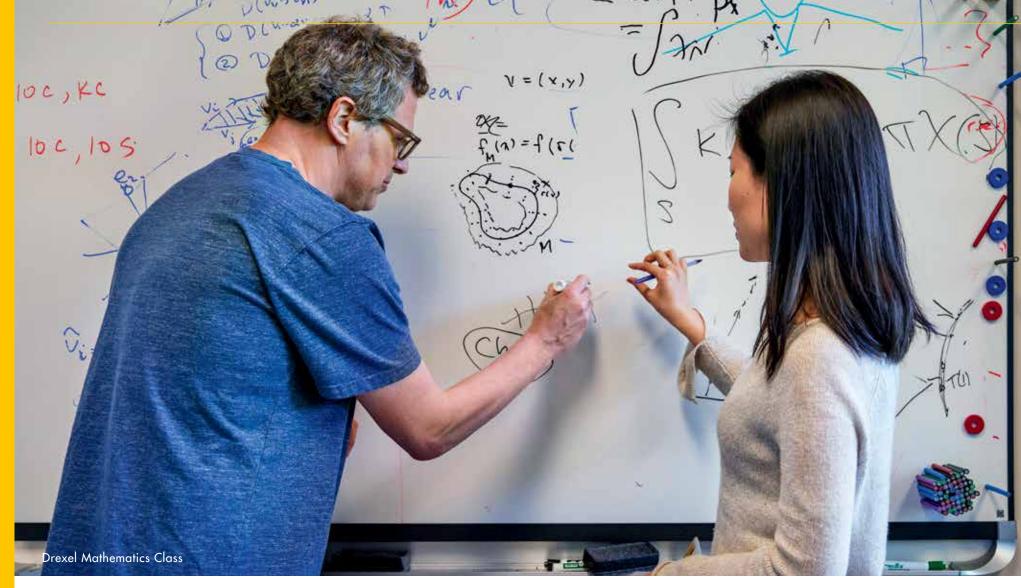
Here, you can make a difference in mental health practices, research hospitals, school districts, and within communities as a whole. Learn more about psychology at **drexel.edu/academics**.





MAJORS

Psychology



04 MATHEMATICS

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**.



MAJORS

- Behavioral Economics,
 Business and Organizations
- Business and Economics
- Economics (BA)
- Economics (BS)
- Economics and Data Science
- Economics and Math
- Economics and Public Health
- Education
- Mathematics

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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 natural sciences, faculty and students continue to drive positive change in the world, in areas as disparate and important as cancer research, environmental sustainability, and prison reform. 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 ECONOMICS

The School of Economics is home to leading faculty scholars who are dedicated to teaching and mentoring their students. In addition to gaining a framework for understanding the world, key tools of analysis, and critical decision-making skills, our students find a highly flexible curriculum and robust hands-on learning experiences that position them to address pressing social issues, solve business problems, or shape public policy. Students can now further specialize their studies through our new, interdisciplinary degree options in areas related to behavioral science, business, data science, math, and public health.

SCHOOL OF EDUCATION

Our School of Education prepares high-quality teachers through a carefully designed blend of practice and research-based field experiences. Students in our teacher education programs have the opportunity to gain classroom experience starting in their first year, enabling them to graduate with more experience than most other teacher education programs. For students interested in education, but do not want to be a teacher, the School of Education also 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 non-profits, government agencies, learning technologies, and more.

COLLEGE OF NURSING AND HEALTH PROFESSIONS

The Drexel University College of Nursing and Health Professions (CNHP) is a vibrant and values-driven educational community which prepares students to become successful professionals who excel in a rapidly changing environment. Students build strong professional foundations as they engage in hands-on experiential learning, and through mentorship of expert faculty and experienced leaders. At CNHP, students aren't content to accept the world as it is. They are people of purpose who embrace the role of change agent, enlisting in the noble and necessary work of finding innovative, evidence-based solutions to systemic problems such as eliminating health disparities. And they understand that solving the problems we face in our nation and world today require bringing together people from across different disciplines, with different experiences, expertise, and perspectives. It will take a team-based collaborative approach—one of the hallmarks of a CNHP education.

DORNSIFE SCHOOL OF PUBLIC HEALTH

The Dornsife School of Public Health prepares ambitious students to fight for the health and human rights of the world's growing urban populations and use the insights and innovations to benefit communities of all types around the world. Dornsife prepares students with experience in and out of the classroom, research opportunities, and partnerships with local organizations to improve the health of populations.



COLLEGE OF ARTS AND SCIENCES

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

- The 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.
- **The Joseph R. Lynch Observatory**, home to a 16-inch Meade Schmidt-Cassegrain telescope that is the largest in Philadelphia.
- The Papadakis Integrated Sciences Building, a 130,000 square-foot LEED Gold-certified facility with state-of-the-art teaching and research laboratories, classrooms, and North America's largest biowall.
- The 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

Housed in Gerri C. LeBow Hall on our University City Campus, the School of Economics offers a range of experiential opportunities and resources to support student learning. Highlights include:

- Center for Business Analytics, which enables student participation in data-driven industry collaboration and the application of analytics across industries.
- Institute for Strategic Leadership and the Chapel
 Leadership Program, which provide 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, allows students to manage a real-world equity portfolio, The Dragon Fund, that oversees \$3 million.

SCHOOL OF EDUCATION

As a practice-based school, the School of Education has many resources available 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.

FACILITIES & RESOURCES

- 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-to-career program for children living in communities just beyond Drexel's University City campus. School of Education faculty and students lead after school and summer education programs at seven schools in the neighborhood.

COLLEGE OF NURSING AND HEALTH PROFESSIONS

The college will be opening its new state-of-the art facility in 2022. Some of its current resources that reinforce best practices in health care 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.
- The Human Anatomy Laboratory, which provides a unique hands-on learning experience for undergraduate and graduate students taking human anatomy courses.
- **Drexel Food Lab**, a lab space incorporating food analysis that is utilized for upper-level food science coursework.

DORNSIFE SCHOOL OF PUBLIC HEALTH

Dornsife is located in Nesbitt Hall on our University City Campus. A few highlights include the School's eleven research centers and programs, such as:

- The Urban Health Collaborative, which works to improve health
 in cities by increasing scientific knowledge and public awareness of
 health disparities and methods of improving health around the world.
- A New Center on Racism and Health, which will leverage strengths across the school's departments and many partners across the University, synergizing work on racial health inequities.

THIS IS DREXEL

ABOUT US

891 founded

5 colleges & school



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

clubs, organizations, and intramural sports teams

8 Division I Teams

Over

fraternities & sororities

student-run radio station

PHILADELPHIA, PA IS OUR HOME

Home of the Philly

CHEESESTEAK

Over

340,000 college students



the Declaration of Independence was signed here



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



COOPERATIVE EDUCATION

Founded in

919

Students have co-ops in

(+ Washington, D.C., Puerto Rico, & U.S. Virgin Islands)

35 countries

AROUND CAMPUS

Residence Halls

Drexel Recreation Center named one of Philly's

BEST GYMS

on-campus places to eat

Home of North America's largest

BIOWALL





UNIVERSITY CITY

The University's main campus

- Philadelphia, PA



DREXEL UNIVERSITY ONLINE

Everywhere

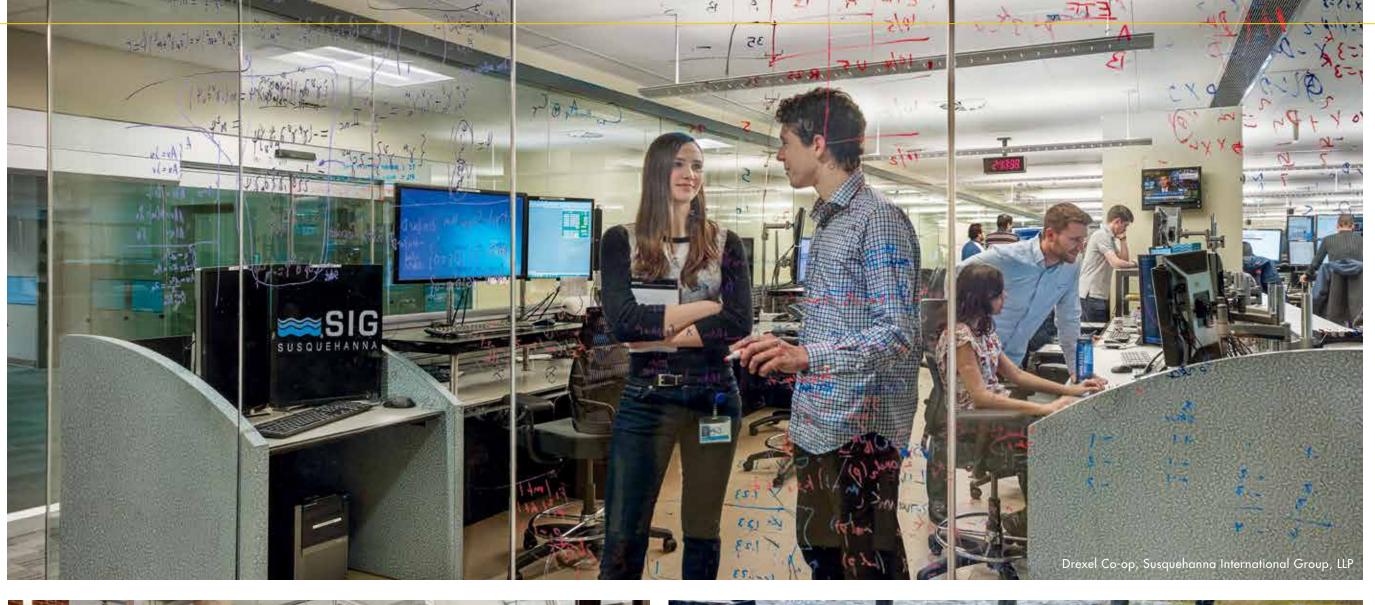
EXPERIENTIAL LEARNING

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 fields. 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 these positions are full-time and paid, and those that are carry a median six-month salary of over \$19,000. 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.

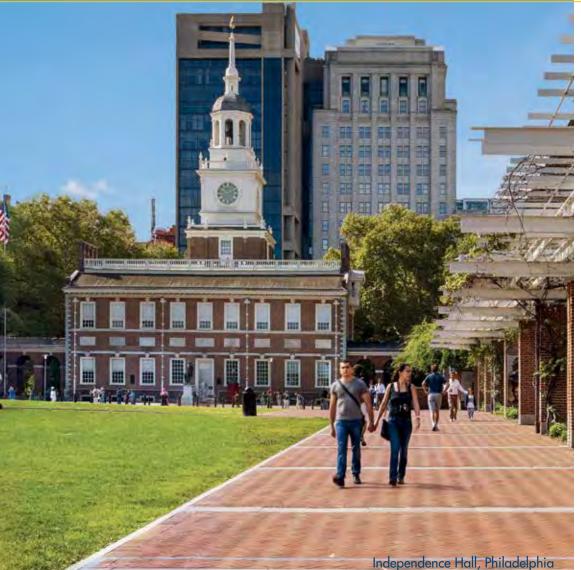
Civic Engagement: We believe in the importance of giving back to local communities — there are always opportunities to make an impact and serve the community here. Students can get involved on campus through Drexel's Lindy Center for Civic Engagement and the Dornsife Center for Neighborhood Partnerships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





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 Pennoni 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, students have been able to 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 35 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 fourth 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

For the most up to date listing of majors, visit drexel.edu/undergraduate/academics.

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
- Esport Business
- 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
- Economics and Data Science
- Information Systems
- Software Engineering
- Undeclared Computer and Information Sciences

School of Economics

- Behavioral Economics, Business and Organizations
- Business and Economics
- Economics (BA)
- Economics (BS)
- Economics and Data Science
- Economics and Math
- Economics and Public Health

School of Education

- Elementary Education
- Education: Non-Certification
- Teacher Education

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*

Charles D. Close School of Entrepreneurship

- BA, Entrepreneurship and Innovation (includes 3-year degree options)
- Corporate Entrepreneurship
- New Venture Creation
- Social Entrepreneurship

Pennoni Honors College

• Custom-Designed Major

Westphal College of Media Arts & Design

- Animation & Visual Effects
- Architecture**
- Architectural Studies
- 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 & Media*

College of Nursing and Health Professions

- Culinary Arts and Science
- Culinary Science
- Food and Beverage Management
- Health Sciences
- Pre-Physician Assistant - Pre-Physical Therapy

Hospitality Management

- Health Services Administration
- Nursing

• Nutrition and Foods

Goodwin College of Professional Studies

- First-Year Exploratory Studies
- Humanities and Social Sciences
- STFM
- General Studies***

Dornsife School of Public Health

- Global Public Health
- Public Health

Accelerated Degrees

- BS/MBA
- Accounting
- Design & Merchandising
- Finance
- International Business
- Legal Studies
- Management Information Systems
- Marketing
- Music Industry
- Operations and Supply Chain Management
- Real Estate Management and Development
- Sport Business
- BS/BA/MS Strategic & Digital Communications
- Communications (both BA and BS) - Marketing BS
- BS/BA/MPH
- Global Studies BA
- Health Services Administration BS
- Public Health BS
- BS/MS Biomedical Engineering
- BS/MS Engineering
- Architectural - Chemical
- Civil
- Computer
- Electrical - Environmental
- Materials Science & Engineering
- Mechanical
- BS/MS Psychology
- BA/MS Sociology & Urban Strategy

Combined

• BA/BS+MD Early Assurance Program

Bridge Programs

- BS Health Sciences/MHS Physician Assistant
- BS Health Sciences/DPT Physical Therapy
- BS Nutrition and Foods/MS Nutrition and Dietetics

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 available to
- *** Available to transfers only.



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

Submitting Your Application

First-year student applications are accepted through either the Common Application or the Coalition Application.

drexel.edu/undergrad/apply

Standardized Test Scores

Drexel University is Test-Optional for students applying for fall 2022 and 2023. For non-native English speakers, there may be additional testing requirements.

${\bf drexel.edu/undergrad/apply/tests}$

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; 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)*	
*Not all majors enroll in our off-terms	

Priority Deadlines

STARTING TERM	DEADLINE
Fall (September)	APRIL 15
Winter (January)*	NOVEMBER 15
Spring (Late March/Early April)*	FEBRUARY 1 <i>5</i>
*Not all majors enroll in our off-terms	

There may be other deadlines for international students. Please visit **drexel.edu/undergrad/apply/deadlines** for more information.

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**



Drexel University Admissions 3141 Chestnut Street Philadelphia, PA 19104

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