



# CATALOG

2021-2022



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# About Drexel University

## Mission Statement

Drexel University fulfills our founder's vision of preparing each new generation of students for productive professional and civic lives while also focusing our collective expertise on solving society's greatest problems. Drexel is an academically comprehensive and globally engaged urban research university dedicated to advancing knowledge and society and to providing every student with a valuable, rigorous, experiential, technology-infused education, enriched by the nation's premier co-operative education program.

## Vision

Drexel will be the Philadelphia region's leading university excelling in high-quality experiential education, online learning, technology transfer and business incubation, translational research, and urban revitalization. Drexel will use and leverage all its assets - outstanding faculty, highly motivated students, over 150,000 alumni world-wide, a pragmatic and entrepreneurial culture, co-operative education, Drexel University Online, and our superior location as a major transportation hub - to create an accessible, relevant and market-leading educational research platform that benefits our diverse community of students, advances our scholarly work, and champions economic development in our region. Drexel will join the ranks of the most impactful and competitive universities in the United States at a time when the nation is clamoring for educational value, jobs, and new ideas for bolstering our economy.

## A Brief History of Drexel University

In founding the institution that would become Drexel University, Philadelphia financier and philanthropist Anthony J. Drexel launched a tradition of innovation. Mr. Drexel envisioned an institution of higher learning uniquely suited to the needs of a rapidly growing industrial society and the young women and men seeking their place in it - core values that continue to guide the University in its modern era. Mr. Drexel's vision was realized in 1891 with the establishment of the Drexel Institute of Art, Science and Industry. Originally a non-degree-granting institution, Drexel began conferring bachelor of science degree in 1914, when its 18 departments were organized into four schools. In 1927, the Commonwealth of Pennsylvania granted Drexel the privilege to confer the master of science degree, and in 1965, the doctor of philosophy degree.

The cornerstone of Drexel's career preparation model has been its cooperative education (co-op) program. Introduced in 1919 as one of the first models of its kind, co-op is integral to the University's educational experience. Through co-op, students alternate periods of study with periods of full-time professional employment, providing unrivaled, valuable professional experience.

The institution's curriculum and organization of its academic programs have evolved to include 15 colleges and schools. Through its evolution, Drexel has undergone two changes in name - in 1936 becoming the Drexel Institute of Technology, and in 1970, Drexel University. The current title reflects the institution's commitment to research as well as the breadth of its academic programs.

Drexel's mission, services and opportunities expanded further in 2002 when MCP Hahnemann University, a major Philadelphia health sciences institution, merged with Drexel University with the addition of the College of Medicine (<http://archives.drexelmed.edu/history.php>), the College of Nursing and Health Professions, and the Dornsife School of Public Health.

In 2001, the University established an affiliation with one of Philadelphia's most storied institutions, the Academy of Natural Sciences, now the Academy of Natural Sciences of Drexel University (<http://www.ansp.org/about/academy-history/>). These historic events extended the resources of Drexel have led to many productive synergies in teaching and research.

Drexel's foundation as an innovating institution established the university as a national leader in higher education. In 1983, Drexel became the nation's first university to require all undergraduates to have personal access to a microcomputer for use in all their coursework. The university continued its commitment to integrating technology when it became the first university to operate a fully wireless campus in 2000. In 2006, Drexel became the first major research university to open a new law school in 25 years. The Thomas R. Kline School of Law is one of only two US university law schools that follows a cooperative education model of learning.

Throughout its evolution to a comprehensive urban research university, Drexel's core mission has held constant. Since its founding, the institution has remained a privately controlled, nonsectarian, coeducational center of higher learning, distinguished by a commitment to preparing women and men for success in their chosen careers incorporating experiential learning and celebrating diversity. Its greatly expanded enrollment, campuses, and curricula reflect a history of responsiveness to societal and individual needs - all of which Mr. Drexel sought to address in his day and going forward through his charge "change."

## Drexel University Today

Today, over 24,000 students are enrolled in over 100 undergraduate programs and over 200 graduate programs across 16 colleges, schools, and centers:

- Close School of Entrepreneurship (<http://drexel.edu/close/>)
- College of Arts and Sciences (<http://drexel.edu/coas/>)
- College of Computing & Informatics (<http://drexel.edu/cc/i/>)
- College of Engineering (<https://drexel.edu/engineering/>)
- College of Medicine: School of Biomedical Sciences and Professional Studies (<https://drexel.edu/medicine/academics/graduate-school/>)
- College of Nursing and Health Professions (<https://drexel.edu/cnhp/>)
- Dornsife School of Public Health (<http://drexel.edu/dornsife/>)
- Drexel College of Medicine (<http://drexel.edu/medicine/>)
- Goodwin College of Professional Studies (<http://drexel.edu/goodwin/>)
- LeBow College of Business (<http://www.lebow.drexel.edu/>)
- LeBow College of Business: School of Economics (<http://www.lebow.drexel.edu/faculty-and-research/disciplines/economics/>)
- Pennoni Honors College (<https://drexel.edu/biomed/>)
- School of Biomedical Engineering, Science, and Health Systems (<http://www.biomed.drexel.edu/>)
- School of Education (<http://drexel.edu/soe/>)
- Thomas R. Kline School of Law (<http://www.drexel.edu/law/>)
- Westphal College of Media Arts and Design (<http://www.drexel.edu/westphal/>)

## Drexel Co-op

Drexel University has been a pioneer in cooperative education since 1919 — operating one of the largest cooperative education programs in the nation. Undergraduates alternate on-campus study with full-time employment in fields related to their academic interests. More than 1,600 employer organizations in business, government, health care and

education participate at locations in more than 30 states and 35 countries. The Steinbright Career Development Center (<http://drexel.edu/scdc/>) (Steinbright) works to ensure that students and alumni get the most from their experiential and career education activities.

## Technology

Technology is integrated into every aspect of the Drexel educational experience, marking the university as a leader in educational innovation.

Drexel made history in 1983 when it became the first university to mandate that all students must have personal access to a microcomputer. This tradition of leadership in integrating state-of-the-art technologies into a Drexel education continued when Drexel, in early 1998, inaugurated the first totally wireless library in the nation. In 2000, Drexel again made history by becoming the nation's first major university to offer completely wireless Internet access across the entire campus.

A pioneer in online learning, Drexel offers distance education programs leading to certificates and degrees in areas including arts & sciences, biomedical sciences & professional studies, business, computing & informatics, communication, education, entrepreneurship, legal studies, media arts & design, nursing & health professions, public health, and more. Drexel University has 7,000 unique online students from all 50 states and more than 20 countries pursuing one of more than 180 graduate and undergraduate degree and certificate programs. Over all, there are more than 13,000 Drexel University students taking at least one course online.

Drexel is widely recognized for excellence in technology-based, experiential learning and was ranked in the top third in the 2021 edition of *U.S. News & World Report's* "Best National Universities," coming in at 133rd out of 388.

## Location

Drexel's 74-acre University City Main Campus is located in the vibrant University City district of Philadelphia, Pennsylvania. Drexel makes full use of its metropolitan setting by integrating Philadelphia and its resources into the classroom, co-op/internship experience, and student life, making it a model for other urban universities. The main campus is a 10-minute walk from Center City, the core of Philadelphia's commercial and business district.

Drexel teaches at two additional Philadelphia campuses: the Center City Campus houses the College of Nursing and Health Professions and the Queen Lane Medical Campus in East Falls houses the College of Medicine (<https://drexel.edu/medicine/>). The Law School also operates the Kline Institute of Trial Advocacy (<https://drexel.edu/law/academics/kline-difference/advocacy/kline-institute-trial-advocacy/>) in Center City.

## Programs of note

### Civic Engagement

Civic engagement, participation in the public life of the community, is important to the Drexel University's strategic plan. Civic engagement can take many forms from volunteerism doing community service to electoral participation and advocacy.

Drexel University's Lindy Center for Civic Engagement (<http://www.drexel.edu/lindycenter/>) fosters a culture of civic responsibility by providing programs and resources that empower Drexel students and the broader university community to expand their civic identities through

engagement in mutually beneficial partnerships that lead to a more just society.

The Lindy Center for Civic Engagement focuses on four core priorities including: Community-Based Learning, Civic Leadership, Public Service, and Community Partnerships.

### Honors Program

The Pennoni College offers several academic options for its students. These opportunities are designed to be intensive, and are taught by faculty members who understand and accommodate Honors students' abilities and aspirations.

These options include:

- **Honors Colloquia:** These cross-disciplinary courses introduce students to topics not typically covered elsewhere. These courses are small, discussion-based, seminar style classes. Past Honors Colloquia topics include: The Hidden God in Cinema; Theory of Special Relativity; The Graphic Novel; Torture and Terrorism, and many others.
- **Honors-Section Courses:** These courses fulfill traditional major requirements but offer Honors credit. While the subject remains the same, the classes are taught to smaller groups, consisting entirely of Honors students, and on an advanced level that encourages discussion and practical application. Honors-section courses may include, among other subjects, physics, English, business, general psychology, chemistry, and biology.
- **Honors Options:** With permission from their instructors and approval from the Honors Program, Honors students may elect to enhance non-honors courses to yield honors credit. The student and faculty member conducting may agree on the specific terms before the course begins and jointly submit a proposal to the Honors Program.
- **Independent Study:** Honors students frequently come across topics in their general coursework that they would like to investigate in greater detail. To accommodate this, the Honors College encourages students to study and research a topic of their choosing with guidance from a faculty member.

### The Symposium

The Symposium (<https://drexel.edu/pennoni/academics/the-symposium/>) is an interdisciplinary, project-based course series exploring subjects of the broadest possible interest and greatest societal impact. Through intensive examination of a different major theme every year, it brings Drexel University students, teachers, and visiting expert lecturers into collaboration. The Symposium strives to avoid the "textbook approach," with an emphasis on developing in students the active skills of interdisciplinary inquiry: reading, writing, critical thinking, methodological creativity, and argument. Six new courses are offered each year, designed to elaborate different dimensions of the theme. Through these courses, students are encouraged to see the University as an interconnected enterprise, and to imagine the University as one part of a larger spectrum of scholars in the communities of the city, the nation, and the world.

### ROTC

The Army Reserve Officers' Training Corps (<http://www.armyrotc.com/edu/drexel/>), established at Drexel in 1918, is an integral part of the University. Army ROTC courses are open to all students, and enrollment alone does not carry a military obligation. Students selected for the advanced course (normally pre-junior, junior, and senior years) will complete their academic and military studies concurrently, and upon graduation will be commissioned as lieutenants in the United States Army,

Army Reserve, or Army National Guard. Participation in the advanced course may qualify participants to receive financial aid through a series of scholarships and cooperative education programs. For further information, contact the Professor of Military Science, Drexel University, The Armory, 33rd and Market Streets, Philadelphia, PA 19104.

Drexel students are eligible to participate in the Naval Reserve Officers' Training Corps (<http://www.vpul.upenn.edu/nrotc/>) (NROTC) through a cross-enrollment agreement with the University of Pennsylvania. All naval science courses are held on Penn's campus. The NROTC program enables a college student to earn a commission in the Navy or the Marine Corps while concurrently satisfying requirements for his or her baccalaureate degree. Scholarship and nonscholarship programs are available.

Drexel students are eligible to participate in the Air Force Reserve Officers' Training Corps (<https://sites.sju.edu/afrotc/>) (AFROTC) through a cross-enrollment agreement with St. Joseph's University. All aerospace studies courses will be held on the St. Joseph's campus. The AFROTC program enables a college student to earn a commission as an Air Force officer while concurrently satisfying requirements for his or her baccalaureate degree.

## Global

### Study Abroad

Drexel University's Study Abroad programs are open to students in all disciplines who meet the qualifications of each individual program. Please see the study abroad website (<http://www.drexel.edu/studyabroad/>) for eligibility requirements of each individual program and for the most up to date program offerings.

### Foreign Language Proficiency

The University awards language minors in Spanish, French, and Japanese and Intermediate Proficiency Certificates (<http://catalog.drexel.edu/certificates/proficiencycertificates/>) in 7 languages: Spanish, French, Japanese, Chinese, Korean, Arabic, and German. Students who minor in a language typically achieve an advanced level of proficiency in all four skills (listening, speaking, reading, and writing) plus cultural competency. The Intermediate Proficiency Certificate documents that a student can interact in every day conversations with native speakers of the language in a culturally sensitive way.

## Affirmative Action and Equal Opportunity

### University Policy: Affirmative Action and Equal Opportunity

It is the policy of the University to provide a working and learning environment in which employees and students can realize their full potential as productive members of the University community. To this end, the University affirms its commitment to equal opportunity, inclusion, and nondiscrimination in employment, education, and in the administration of its policies, programs, and activities for all qualified individuals regardless of race; religion; color; national origin; age; sex; orientation; gender identity or expression; genetic predisposition or carrier status; physical, mental or sensory disability; veteran, marital, civil union or domestic partnership status or citizenship status, or any other status protected by federal or state law. Drexel is proud to be an affirmative action and equal opportunity employer.

Affirmative Action is directed toward racial and ethnic minorities, women, persons with disabilities, and Vietnam-era veterans. All member of the University community -- faculty, staff, and students -- are expected to cooperate fully in meeting these goals.

It is the policy of the University that no qualified individual with a disability shall, on the basis of the disability, be excluded from participation in University programs and activities. Disability is defined as any physical or mental impairment that substantially limits one or more major life activities; or having a record of such impairment; or being regarded as having such impairment. A qualified individual with a disability means an individual as defined above, who is capable of performing the essential functions of a particular job or of participating in a particular course of study, with or without reasonable accommodations for his/her disability. Reasonable accommodations are determined on a case-by-case basis.

## Consumer Information and Student Right to Know

In accordance with federal regulations set forth by the Higher Education Opportunity Act of 1965, as amended, a summary of consumer information must be made available to all prospective and enrolled students at Drexel University. Links to the information is available on the Office of the Provost's website (<http://drexel.edu/provost/policies/heoa/>).

# Accreditation

## Drexel University

- Drexel University is accredited by the Middle States Commission on Higher Education (MSCHE). (<https://www.msche.org/>)

## The Antoinette Westphal College of Media Arts and Design

- The Bachelor of Science in Interior Design is accredited by the Council for Interior Design Accreditation (CIDA) (<https://www.accredit-id.org/>).
- The Master of science in Interior Architecture & Design is accredited by the Council for Interior Design Accreditation (CIDA). (<https://www.accredit-id.org/>)
- The Architecture program is accredited by the National Architectural Accrediting Board (NAAB). (<https://www.naab.org/>)
- Bachelor of Science programs in: Animation & Visual Effects; Art History; Design & Merchandising; Entertainment and Arts Management (Visual Arts); Fashion Design; Film & Video; Game Art & Production; Graphic Design; User Experience and Design Interaction; Interior Design; Photography; Product Design; TV Production & Media Management are accredited by the National Association of Schools of Arts & Design (NASAD). (<https://nasad.arts-accredit.org/>)
- The Master of Science programs in Digital Media; Fashion Design; Interior Design; and Design Research are accredited by the National Association of Schools of Arts & Design (NASAD) (<https://nasad.arts-accredit.org/>)
- The Doctor of Philosophy in Digital Media is accredited by the National Association of Schools of Arts & Design (NASAD). (<https://nasad.arts-accredit.org/>)

## The Bennett S. LeBow College of Business

- The Bennett S. LeBow College of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB). (<https://www.acce-hq.org/>)

## The Close School of Entrepreneurship

- The Close School of Entrepreneurship is accredited by the Association to Advance Collegiate Schools of Business (AACSB). (<https://www.acce-hq.org/>)

## The College of Engineering

- The undergraduate programs for Architectural Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering Environmental Engineering, Materials Science and Engineering, and Mechanical Engineering are accredited by the Engineering Accreditation Commission of The Accreditation Board for Engineering and Technology (ABET). (<https://www.abet.org/>)
- The undergraduate Construction Management program is accredited by the American Council for Construction Education (ACCE). (<https://www.acce-hq.org/>)
- The undergraduate Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of The Accreditation Board for Engineering and Technology (ABET). (<https://www.abet.org/>)
- The Project Management program is approved by the Project Management Institute (PMI)<sup>®</sup> as a Registered Education Provider (R.E.P.). This designation indicates that Drexel has met or exceeded

rigorous standards for the quality and the effectiveness of its program as defined by PMI, <http://www.pmi.org/learning/training-development/ reps> (<http://www.pmi.org/learning/training-development/reps/>).

## The College of Arts and Sciences

- The Bachelor of Science in Chemistry is certified by the American Chemical Society (ACS). (<https://www.acs.org/content/acs/en.html>)
- The Doctor of Philosophy in Clinical Psychology is accredited by the American Psychological Association (APA) (<https://www.apa.org/>).
- The English Language Center is accredited by the Commission on English Language Program Accreditation (CEA). (<https://cea-accredit.org/accreditation/>)

## The College of Nursing and Health Professions

- The Baccalaureate Degree in Nursing (BSN), the Master's Degree in Nursing (MSN) and the Doctor of Nursing (DNP) are accredited by the Commission on Collegiate Nursing Education (CCNE) (<https://www.aacnnursing.org/CCNE/>)
- The Couple and Family Therapy MFT degree is accredited by the Commission on Accreditation of Marriage and Family Therapy Education (COAMFTE). (<https://www.coamfte.org/>)
- The Creative Arts Therapies MA degree in Dance/Movement Therapy are accredited by the American Dance Therapy Association (ADTA). (<https://www.adta.org/>)
- The Creative Arts Therapies MA degree in Music Therapy and Counseling is accredited by the American Music Therapy Association (AMTA). (<https://www.musictherapy.org/>)
- The Creative Arts Therapies MA degree in Art Therapy and Counseling is accredited by the American Art Therapy Association (AATA). (<https://arttherapy.org/>)
- The Didactic Program in Nutrition is accredited by the Accreditation Council for Education in Nutrition and Dietetics Association (ACEND) (<https://www.eatrightpro.org/acend/>).
- The Nurse Anesthesia program is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA). (<https://www.aana.com/about-us/aana-foundation/aana-affiliates/coa/#:-:text=The%20Council%20on%20Accreditation%20of%20Nurse%20Anesthesia%20Educational,in%20the%20United%20States%2C%20its%20territories%2C%20and%20protectorates>)
- The Doctor of Physical Therapy (DPT) program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE). (<http://www.capteonline.org/home.aspx>)
- The Physician Assistant program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA). (<http://www.arc-pa.org/>)

## The College of Computing & Informatics

- The MS in Library and Information Science is accredited by the American Library Association (ALA). (<http://www.ala.org/>)
- The MS in Health Informatics Program is in Candidacy Status, pending accreditation review by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). (<https://www.cahiim.org/>)

## The Drexel University College of Medicine

- The MD degree is accredited by the Liaison Committee on Medical Education (LCME). (<https://www.aamc.org/services/first-for-financial-aid-officers/lcme-accreditation/>)

- The Master's program in Histotechnology (MHP) and the Master of Science in Pathologists' Assistant program are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). (<https://naaccls.org/>)

#### **The Dornsife School of Public Health**

- The Dornsife School of Public Health is accredited by (Council on Education for Public Health (CEPH).

#### **The School of Biomedical Engineering, Science and Health Systems**

- The undergraduate biomedical engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) ABET (<http://www.abet.org>).

#### **The School of Education**

- Teacher education, school leadership and other programs leading to Pennsylvania State-issued credentials or endorsements for various PreK-12 subject areas are approved by the Pennsylvania Department of Education. These include teacher preparation programs in the areas of Pre-Kindergarten - Grade 4 (PK-4); Middle Level (Grades 4 - 8) in English, Mathematics and Science; the Secondary Level (Grades 7-12) in areas of Biology, Chemistry, Earth & Space Science, English, General Science, Mathematics, Physics, and Social Studies; and Special Education. State-approved, school leadership certification areas include School Principal K-12, Special Education Leadership and Instructional Technology Specialist. Other state-approved programs and program endorsements are provided in the areas of Autism, Reading Specialist, STEM Teaching Endorsement, and Teaching English as a Second Language Program.
- The School of Education will be seeking accreditation from the Council for the Accreditation of Educator Preparation (CAEP). (<http://caepnet.org/>)

#### **The Thomas R. Kline School of Law**

- The Thomas R. Kline School of Law is accredited by the American Bar Association (ABA). (<https://www.americanbar.org/>)
- The Master of Legal Studies (MLS) is accredited by the Compliance Certification Board (CCB)<sup>®</sup>.

Any student or prospective student may request a copy of the documents describing the institution's accreditation. This information is available in the Provost's Office and in the Financial Aid Office, both located in the Main Building.

# The Steinbright Career Development Center

The Steinbright Career Development Center (Steinbright) (<http://www.drexel.edu/scdc/>) serves all students and recent alumni through cooperative education and career services offerings. For information about potential co-op experiences, or to access career guides for specific majors, visit the Steinbright Center's Co-op Career Guide (<http://www.drexel.edu/scdc/career-services/counseling/career-guides/>) page.

## I. Drexel Undergraduate Co-op

Cooperative Education at Drexel (<http://www.drexel.edu/scdc/coop/>) enables full-time undergraduate students to alternate periods of classroom theory with professional experience prior to graduation. Participation in co-op is available in most academic programs. Successful completion of the cooperative education experience is a graduation requirement for students enrolled in a co-op degree program. Students have the opportunity to gain 6 to 18 months of career-related work experience integrated with their coursework. Cooperative education helps students explore and confirm their career choices by assisting students in several areas of career development, including self-assessment and career exploration. Through co-op students develop confidence, professionalism and a sense of purpose. Students are expected to take advantage of every possible opportunity to observe different aspects of the workplace and to gain experience.

To learn more about undergraduate co-op, visit the Steinbright Career Development Center's website (<https://drexel.edu/scdc/co-op/undergraduate/>).

A. Co-op Program Schedule Options (<http://www.drexel.edu/scdc/co-op/undergraduate/>)

### B. Co-op Policies and Procedures

C. Co-op Preparatory Courses (<https://drexel.edu/scdc/co-op/co-op-curriculum/>)

D. Classes During Co-op Go to the Provost's website (<https://drexel.edu/provost/policies/registering-for-classes-during-co-op/>)

## II. Drexel Graduate Co-op Program (GCP)

Drexel's more than 100-year tradition in the field of experiential education is also available in select graduate programs. Graduate co-op enables master's level students to alternate class terms with one six-month period of professional or research experience.

For more information about the graduate co-op program and a list of participating majors visit the Graduate Co-op website (<https://drexel.edu/scdc/co-op/graduate/>).

## III. Career Services

Career Services (<http://drexel.edu/scdc/career-services/exploring/>) offers assistance to all current students and alumni in securing employment consistent with personal career goals and objectives. All services are free of charge to active students and alumni. Services, resources, and events include:

- Individual career counseling, including assessments designed to help individuals choose long-range career goals consistent with their abilities, education, interests, values and personality.
- Career counselors who work specifically with first year students and graduating seniors. Individual appointments and group programs covering topics including resume writing, interview preparation, job search strategies and offer negotiation.
- On-Campus Interview Program which provides opportunities for on-campus interviews with employers from business, industry, education, and government services.
- Handshake. Drexel's online job search system. Students can review job postings with employers who are interested in hiring Drexel students and alumni. Students can also research companies, information on career fairs, and company-hosted information sessions with Handshake (<https://drexel.edu/scdc/career-services/searching-for-job/handshake/>).
- Comprehensive pre-professional advising services to students and alumni who are considering careers in law or medicine.
- Two of the largest career fairs in the Delaware Valley in October and April open to all students and alumni. In addition, a career fair specifically for engineering and technology students is held in the winter term.



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