



COMPUTING AND INFORMATICS AT DREXEL UNIVERSITY

GRADUATE STUDIES

Founded in 2013, Drexel University's College of Computing & Informatics (CCI) serves as a hub for multi-disciplinary computing and informatics activities by uniting the faculty, staff, and students from the former *iSchool*, College of Information Science and Technology; the Department of Computer Science in the College of Engineering; and the Department of Computing and Security Technology in the Goodwin College of Professional Studies. CCI combines the core strengths and assets of Drexel's varied computing and informatics programs and helps students to prepare for careers in the information field through teaching, research, and real-world experience.

CCI offers five master's degrees, a dual master's option, two doctoral degrees, and a variety of certificate, post-bachelor's certificate, and post-master's certificate programs both on campus and online. Our students graduate with a solid foundation in information studies and advanced knowledge and specialization in fields ranging from computer science to library science to healthcare informatics.

All CCI programs are accredited by the Middle States Commission on Higher Education, and most individual programs are recognized by the highest accrediting body in their disciplines.

Our Programs

The College of Computing & Informatics offers the following degrees:

- Computer Science (MS, PhD)
- Health Informatics (MS)
- Information Studies (PhD)
- Information Systems (MS)
- Information Systems/Library and Information Science (Dual MS)
- Library and Information Science (MS)
- Software Engineering (MS)

For More Information

In order to stay ahead of developments in the information field, we continually review and update the content of programs offered. Prospective students are encouraged to visit these websites for the most current information:

College of Computing & Informatics:
www.drexel.edu/cci

Admissions:
www.drexel.edu/grad/cci

Graduate Catalog:
www.catalog.drexel.edu/graduate



LIVE IT.

About Drexel

Drexel University is a private, nonsectarian coeducational university, founded in 1891 by financier and philanthropist Anthony J. Drexel. Today it is a top-tier, comprehensive research university, enrolling nearly 16,000 undergraduates and more than 9,000 graduate, professional, and certificate students on four separate campuses. The University's colleges and schools offer over 80 undergraduate majors, and more than 70 master's and 30 doctoral programs. Drexel is fully accredited by the Middle States Association of Colleges and Schools, with additional programs accredited by their respective top professional accreditation bodies. Students come from all 50 U.S. states and 133 foreign countries.

Faculty

In keeping with Drexel's focus on experiential education, faculty members in CCI are leaders in their fields, and many continue to be professionally active. This relationship to industry benefits students, providing inside knowledge and useful networking contacts in the Philadelphia area and beyond.

Computer Science (MS, PhD)

CCI offers a master's and a doctoral degree in Computer Science with a variety of concentrations for specialization. The master's program requires 45 credits with a thesis or non-thesis option for completion. Students gain a breadth of understanding in the core topics of computer science and in-depth advanced material in an area of concentration, as well as practical experience in a range of all areas of computer science while studying at least one subfield in depth and making contributions to the subfield through research and scholarship. The PhD program requires 90 credits and a dissertation for completion.

Students may choose from the following concentrations: artificial intelligence, algorithms and combinatorial optimization, compiler construction, computer algebra, computer graphics, computer networks and security, computer vision, database design, human-computer interaction, operating systems, parallel computation, programming languages and compilers, and software engineering.

Health Informatics (MS)

The Master of Science in Health Informatics is a multidisciplinary program formed through the collaboration of CCI and the College of Nursing and Health Professions. Through this online program, students from diverse academic and professional backgrounds learn to efficiently and responsibly use information systems, such as knowledge processing methodology and information and communication technologies, to improve health outcomes in a variety of settings, including clinical medicine, nursing, public health, industry, government, and academia.

Information Studies (PhD)

The Doctor of Philosophy (PhD) in Information Studies is a research degree program. As such, it requires a high level of scholarly achievement in both supervised and independent study and research. There are few fixed program requirements, and the master's degree is not a prerequisite. This program has two major goals: to allow students to acquire in-depth knowledge of a specialized area within the field of information science and technology and to prepare students for careers in which research is a fundamental element. Graduates have gone on to careers in which they apply their research in education, administrative, policy, and research settings.

The PhD requires a minimum of 90 credits beyond the bachelor's degree or 45 credits beyond an applicable MS degree, as well as a regularly reviewed portfolio and a dissertation. While students may begin the program on a part-time basis, they must fulfill the three-term full-time residency requirement. The degree can be completed in as few as three years, but usually takes between four and five.

Information Systems (MS)

The Master of Science in Information Systems program is designed both for career changers interested in launching new careers in information systems and information technology and for information systems professionals who wish to broaden and formalize their knowledge in the field. The program requires a total of 45 credit hours of coursework, which can be fulfilled on campus and/or online. Courses address the business, managerial, and technical aspects of information systems for a complete understanding of the integration of organizations and systems. Graduates advance to leadership positions, working to improve the strategic use and management of information resources across business, government, and nonprofit organizations.

Information Systems/Library and Information Science (Dual MS)

The dual degree combines the Library and Information Science program's concern with selecting, organizing, managing, and accessing information resources with the Information System's skills in creating and managing databases, interfaces, and information systems. Students should already be working toward a master's in one program when requesting admission to the second. To successfully complete the dual degree, students must meet the core requirements of both programs and earn a total of 63 graduate credits.

Library and Information Science (MS)

The master's in Library and Information Science was the second program of its kind to be established and remains one of only 51 programs nationwide accredited by the American Library Association. Drexel's MS in Library and Information Science is consistently ranked among the nation's best by *U.S. News & World Report*. The MS in Library and Information Science degree qualifies students for a variety of positions, including academic librarian, children's librarian, knowledge management specialist, systems librarian, web developer, young adult librarian, digital librarian, and competitive intelligence analyst.

Students can complete the MS on campus, online, or as a combination of the two. The degree requires 45 credit hours of study, and students may choose a concentration. Concentrations are available in archival studies, competitive intelligence and knowledge management, digital libraries, library and information services, school library media, and youth services.

Software Engineering (MS)

CCI's Master of Science in Software Engineering is a multidisciplinary degree offered in conjunction with Drexel's College of Engineering. The program draws on the strengths of existing Drexel programs in Computer Science, Engineering, and Information Systems to provide a curriculum that encompasses behavioral, managerial, and technical aspects of software engineering and attempts to synthesize disciplinary paradigms and themes. The program is offered for students interested in a wide range of application domains. Students working toward the degree work in one of three tracks: computer science, engineering, or information science and technology. While degree requirements vary by track, all students take an 18-credit common core which is distributed equally across the three tracks.

Certificates

Because the information fields evolve at a rapid pace, CCI offers a number of professional development opportunities for students who have already earned a bachelor's or master's degree, allowing them to update their knowledge bases or develop new areas of expertise. CCI offers a certificate, a post-bachelor's certificate (PBC), and post-master's certificates (PMCs). While these may carry graduate credit, they are not applied toward a degree program.

- Archival Studies (PMC)
- Competitive Intelligence/Knowledge Management (PMC)
- Computing and Security Technology (PBC)
- Cybersecurity, Law, and Policy (PBC)
- Digital Libraries (PMC)
- Healthcare Informatics (Certificate)
- Homeland Security Management (PMC)
- Information Studies and Technology (PMC)
- Youth Services (PMC)

Research and Resources

CCI's research capabilities and resources cover the full range of the information field. Topics of particular interest to current faculty and graduate students include artificial intelligence, database management, human-computer interaction, information visualization and retrieval, knowledge management, social informatics, software engineering, bioinformatics, systems analysis and design, digital libraries, and youth services and issues.

Our facilities, particularly the iCommons resource center, are equipped with cutting-edge computing hardware and software. In addition, CCI maintains a strong Web presence, notably as home to the Internet Public Library, the world's largest online collection and digital reference resource.

Libraries

The Hagerty Library, located on the University City Campus, reflects the curricular strengths of the campus. It houses approximately 500,000 bound volumes, DVDs, videos, and archival resources; and it provides access to an impressive array of electronic databases and periodicals.

Audiovisual materials are available for viewing and listening at home, in fully equipped study carrels, and in group viewing rooms. Scanning; printing; and word processing, spreadsheet, presentation, and other software programs are available in the Computer Center. The Bookmark Café is open 24 hours a day for use by University students, faculty, staff, and residents.

Drexel University has three other libraries: Hahnemann Library, located on the Center City Campus, the College of Law Library, located on the University City Campus, and the Queen Lane Library, located on the Queen Lane Campus. Drexel graduate students also have access to the library resources of the University of Pennsylvania, the University of the Sciences in Philadelphia, and the Restaurant School at Walnut Hill College.

Philadelphia

Philadelphia is the nation's fifth largest city, with a metropolitan population of nearly six million. It is renowned for its historical sites and the diversity of its neighborhoods, and as a hub of the pharmaceutical, electronics, cable, design, and finance industries.

The city offers countless arts, entertainment, and recreational attractions including museums, theaters, major league sports franchises, and one of the nation's largest urban park systems, as well as first-class shopping, dining, and nightlife.

CCI is located on Drexel's University City Campus in Philadelphia's University City neighborhood, which is also home to the University of Pennsylvania, the University of the Sciences, and the Restaurant School at Walnut Hill College.

Admission

Acceptance for graduate study at Drexel University requires a bachelor's degree from an accredited institution in the United States or an equivalent international institution. Although admission requirements vary by program, regular acceptance typically requires a minimum grade point average (GPA) of 3.0 for the last two years of undergraduate work. The GPA for any graduate work must be at least 3.0. Applicants for post-master's status must show potential for further study by having maintained at least a 3.0 GPA in their master's-level studies. (Individual departmental requirements may exceed this minimum.)

The admissions committee evaluates all credentials submitted by applicants to determine a student's ability and potential to succeed in graduate study. In addition, the committee is interested in the applicant's ability to contribute to his/her program of study and to the University community as a whole.

Applicants may only apply to one program at a time. Drexel will waive the application fee if you apply online or submit your application during a campus visit. For more information, see www.drexel.edu/grad/apply.

Financing

Students must complete the Free Application for Federal Student Aid (FAFSA) annually to be eligible for federal, state, or institutional aid. File online at www.fafsa.ed.gov. Drexel's school code is 003256. To learn more, visit www.drexel.edu/drexelcentral/finaid.

Merit-based aid in the form of teaching, research, and graduate assistantships is awarded by the graduate departments based on need and availability of funds. Questions should be directed to the graduate advisor.

Contact Us

Graduate Admissions

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College of Computing & Informatics

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Apply online at www.drexel.edu/grad/apply.