



UNDERGRADUATE DEGREES

Computer Science

Computing & Security Technology

Data Science

Economics & Data Science

Information Systems

Software Engineering



DREXEL UNIVERSITY
College of

Computing &
Informatics

A Message from Isaac L. Auerbach Professor & Dean Yi Deng, PhD:

At the College of Computing & Informatics (CCI) at Drexel University, our unique structure — bringing computing and informatics together under one roof in a dynamic, collaborative college — allows us to spot trends before they emerge, to solve problems before they occur, and to build a better tomorrow, starting today.

Led by a world-class faculty, our cross-cutting, interdisciplinary undergraduate programs instill the knowledge and skills necessary for our students to lead and innovate across industries in a rapidly evolving technological landscape.

Through experiential learning and applied research, our students are provided a creative and collaborative space to hone their skills both inside and outside the classroom.



Drexel's renowned co-operative education program offers students the chance to network, test their careers, and make a real-world impact on today's most pressing technology challenges. With 98.5% of our undergraduate students participating in co-op, it's clear our students are making an impact well before graduation.

Join us at CCI, because the world can't wait for new ideas.

**Learn more
about our vibrant
student life and
exciting programs
here at CCI →**



Student Life at CCI

Explore the city

As a hub for technology, business and the arts, Philadelphia offers many educational and career opportunities for students, as well as cultural events and entertainment.

Build your community

Live, learn and socialize with peers in our residential learning communities.

Collaborate

Study and share ideas in our new, state-of-the-art CCI Commons computer lab and/or the CCI Learning Center.

Plan your path

Our undergraduate peer mentors assist new students with the transition to college, while our professional academic advisors help students plan their academic path through graduation.

Get involved

With countless student events, and over 300 student groups, chapters and organizations at Drexel, there are many ways to make friends, learn something new and pursue your passion.

STUDENT GROUPS INCLUDE

- ♦ **Women in Computing Society**
Helps to support, recruit and retain women pursuing a degree in STEM fields
- ♦ **Drexel Blockchain**
Provides an open space to establish community discussion amongst individuals and industry professionals who are passionate about all things blockchain
- ♦ **Drexel Game Developers Group**
Promotes game development within Drexel's student community
- ♦ **Drexel CyberDragons**
Trains students in practical technical cybersecurity skills

EVENTS INCLUDE

- ♦ **Philly Codefest**
Drexel's largest hackathon presented by CCI, open to both students and professionals, to develop tech solutions to real world problems
- ♦ **CCI Diversity in Tech Initiative**
Networking events and workshops with fellow students, faculty and industry members
- ♦ **CCI Corporate Partners Program**
Learn from CCI Corporate Partners and industry experts about the latest trends in technology, and take advantage of networking opportunities for co-op and job positions in your area of study



CCI Corporate Partners Program

Connecting Industry to the Classroom

The CCI Corporate Partners Program is built on a core of innovation and collaboration. Founded in 2017, the program aims to connect CCI with industry to create a large scale, sustainable ecosystem for the development, recruitment and retention of top tech talent.

CCI students have a unique opportunity to engage with our Corporate Partners at various hands-on, technical workshops, co-op information sessions, in-person tours, and exclusive career networking events.

Learn more at drexel.edu/ci/cpp

OUR PARTNERS

- American Water
- Aramark
- Bear Institute at Children's National
- Benefits Data Trust
- Bentley Systems
- BrickSimple
- Brown Brothers Harriman
- Childhood Cancer Data Lab
- Children's Hospital of Philadelphia
- Chubb Insurance
- Dell Boomi
- eMoney Advisor
- HomeNet Automotive
- Lutron
- Open as App
- Penn Mutual
- Quantum Games
- SAP
- Susquehanna Int'l Group, LLP
- Tamman Tech
- Vanguard



**As of Oct. 2021*

Computer Science

Learn about the theory and practice that makes computing effective

The Bachelor of Science/Bachelor of Arts in Computer Science (BS/BACS) program covers core areas including programming, data structures, programming language concepts and systems architecture. Students also select tracks in areas such as artificial intelligence, security, graphics and vision, human-computer interaction and software engineering. Optional concentrations include Game Programming and Development (GMPD) and Computer Security.

CS majors tend to be skilled at math and writing code, and like to apply computer science to solve complex computing problems.

Available minors for CS majors:

Data Science

Computing Technology

Human Computer Interaction

Information Systems

Security Technology

Software Engineering

Or more than 100 minors across the University!

Job titles of recent CS grads:

Web Developer, Software Systems Engineer,
Software Developer, Network Engineer
and Application Analyst



I believe this major has the most flexibility to expand on great ideas to share and benefit the entire world and I would like to contribute a part in that.

Rayan Shrestha

Hometown: Sayreville, NJ

Activities/Clubs/Societies:

Board member of Nepali Student Association, Intramural Soccer, Intramural Basketball, Beta Chi Theta Fraternity Inc., Drexel Blockchain, Drexel Table Tennis

Most Recent Co-op Position:

Security Engineer at Comcast Corporation

Favorite Course:

CS171- Programming I

Dream Job:

Senior Project Manager at Google



Computing and Security Technology

Learn how to plan, manage and operate the information technology infrastructure

The Bachelor of Science in Computing and Security Technology (BSCST) program provides hands-on experience in managing and operating computer servers, networks, Web and mobile systems, and databases with particular attention to secure operations. Students must choose one of two concentrations: Computing Technology and Computing Security.

The program is available as an online degree-completion program, or as an on campus face-to-face program.

BSCST majors tend to be hands-on and like to master the technical details to make complex systems work smoothly and securely.

Available minors for CST majors:

Computer Science

Data Science

Human Computer Interaction

Information Systems

Software Engineering

Or more than 100 minors across the University!

Job titles of recent BSCST grads:

Security Administrator, Chief Information Security Officer, IT Audit Manager, Project Manager, and Lead Systems Engineer

I am interested in seeing how security cuts across different industries and our day-to-day lives.

Ledo Nwilene

Hometown: Port-Harcourt, Nigeria

Activities/Clubs/Societies:

Co-founder of Blooming Lasting Careers,
Social Innovation Fellow at StartingBloc,
Rewriting the Code Fellow,
Drexel Women in Computing
Society, National
Society of
Black Engineers



Most Recent Co-op Position:

Networking Digital Quality Analyst at JPMorgan Chase & Co.

When she's not in class she's:

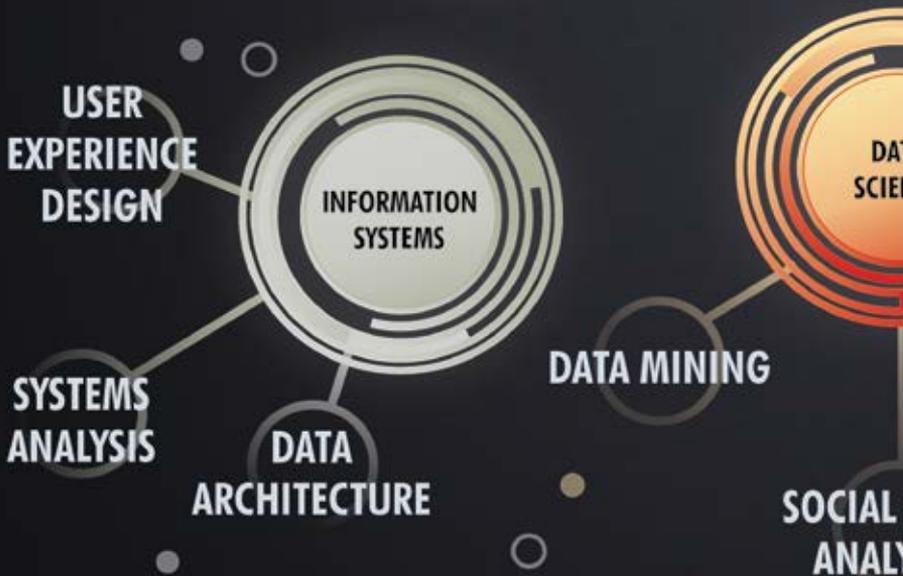
probably attending a conference,
or tech/professional development event

Dream Job:

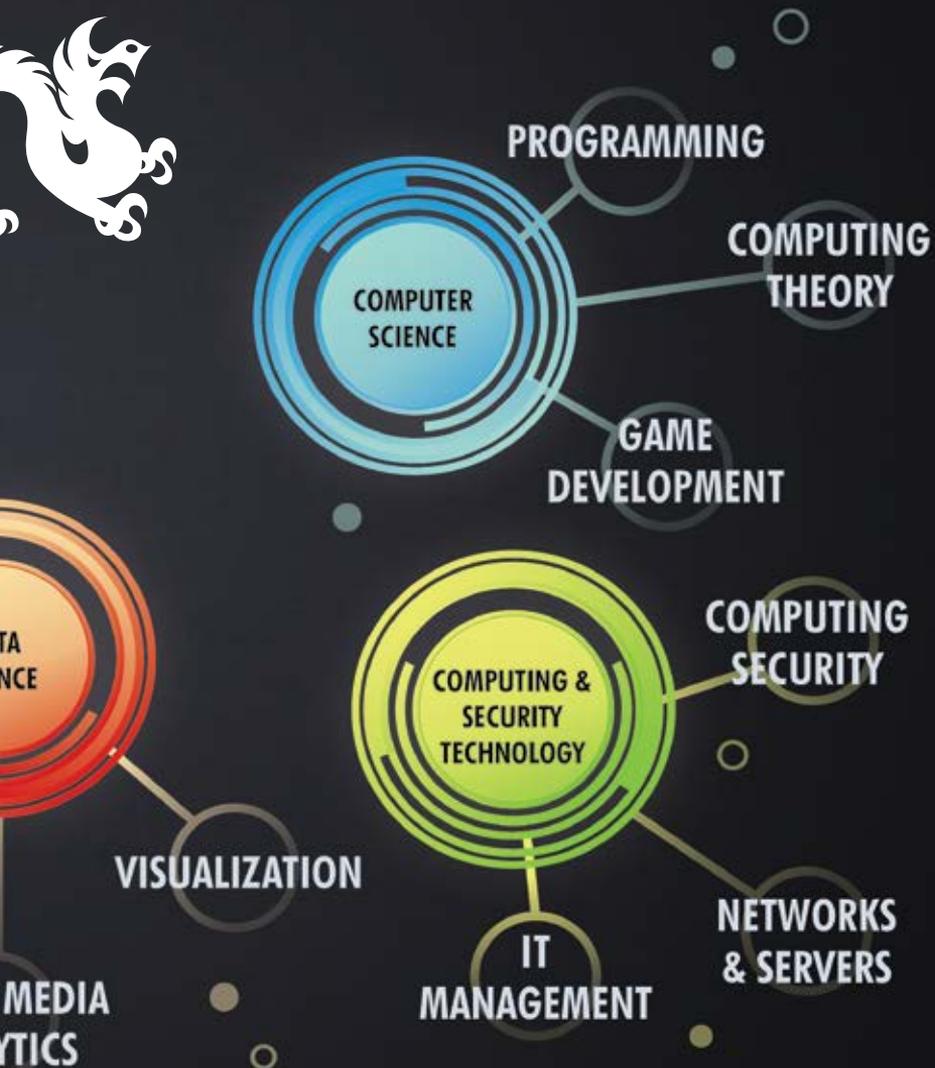
Utilize technology for social good and economic development,
especially in the African continent



Comprehensive College of Comput



Coverage of the Computing & Informatics



Data Science

Learn how to make sense and find meaning in oceans of data

The Bachelor of Science in Data Science (BSDS) degree program responds to the explosive growth of large scale data sources and the people needed to address challenges within data management in a variety of environments.

BSDS students study data mining, information retrieval, visual analytics, social media trend spotting, human computer interaction and information policy. BSDS students learn how to create novel information products, develop new insights about people's behavior and solve problems that require large and disparate datasets, in domains such as health care, finance, research and development, and business operations.

BSDS majors tend to be good with quantitative analysis and like making sense out of data and presenting useful information in ways that others can understand.

In partnership with the School of Economics in the LeBow College of Business, CCI also offers a new **BS in Economics & Data Science**, which focuses on applying data science concepts in the economics domain.

Available minors for BSDS majors:

Computer Science

Computing Technology

Human Computer Interaction

Information Systems

Security Technology

Software Engineering

Or more than 100 minors across the University!

Sample job titles for BSDS grads:

Data Scientist, Business Intelligence Officer,
Information Architect, and Usability Analyst



By studying Data Science, I will gain the necessary skills that will enable me to be versatile and marketable in whatever field I choose to go into.

Jess Jha

Hometown: Norristown, PA

Activities/Clubs/Societies:

Drexel Blockchain, Drexel Women in Computing Society, Society of Women Engineers, Prospanica

Most Recent Co-op Position:

Automation & Engineering Co-op at Johnson & Johnson

When she's not in class she's:

traveling to visit friends/family, spending time with her dog, playing piano, swimming, or exploring new places to eat

Dream Job:

Developing software for safer drone automation



Information Systems

**Learn how to apply technology to solve problems
for organizations and individuals**

The **Bachelor of Science in Information Systems (BSIS)** program includes core courses in human-computer interaction, systems analysis, team processes and social aspects of IS. Students also take a minor in business. BSIS majors tend to be good at bridging the gap between clients and technical staff and like to design technical solutions to real problems.

With a technical focus on high-level system design, databases and human-computer interaction, the BSIS program educates students on how to interact with people and businesses to understand their needs and translate them into effective systems and technology to improve efficiency.

Available minors for BSIS majors:

Computer Science

Computing Technology

Data Science

Human Computer Interaction

Security Technology

Software Engineering

Or more than 100 minors across the University!

Job titles of recent BSIS grads:

Security Analyst, Network Systems Analyst, Database Administrator, Data Communications Analyst, Systems Administrator, and Systems Engineer

I chose Information Systems because having the combination of both business and technology allows me to understand many different aspects of the computer world.

Liv Cerani

Hometown: Williamsburg, VA

Activities/Clubs/Societies:

Club Volleyball, Drexel Design

Thinkers and Makers,

Drexel Women in Computing Society



Most Recent Co-op Position:

Cyber Security Intern, CSL Behring

Favorite Course at Drexel:

INFO 102 Introduction to Information Systems

Dream Job:

Computer Forensics Investigator



Software Engineering

Learn how to design and build high-quality software products

Bachelor of Science in Software Engineering (BSSE) majors learn how to design and build high-quality software products. As high-quality software is challenging to create, software engineering focuses on the knowledge and skills to meet that challenge and develop software on schedule and within budget. The BSSE curriculum covers the fundamental concepts and skills to prepare the next generation of software engineering professionals, including topics such as specification, design, software evolution, quality control and project management.

BSSE majors tend to be good at quantitative analysis and writing code, and like to apply methods that allow individuals and teams to create and improve large software systems.

Available minors for BSSE majors:

Computer Science

Computing Technology

Data Science

Human Computer Interaction

Information Systems

Security Technology

Or more than 100 minors across the University!

Job titles of recent BSSE grads:

Software Engineer, Software Architect,
Software System Project Manager,
and Software Project Team Leader



I love working with integrating hardware and software, and Software Engineering was the perfect field to do this.

Garrett Crayton

Hometown: Capistrano Beach, CA

Activities/Clubs/Societies:

Drexel Water Polo Club, Fraternity of Alpha Chi Rho, Drexel Newman Catholic Community

Most Recent Co-op Position:

Software Engineer, National Board of Medical Examiners

When he's not in class he's:

at the Newman Center, exploring Philly, spending time with friends, or playing sports

Favorite Language:

Java



CCI CO-OP FAST FACTS

1 OR 2

COMPLETE 1 CO-OP ON
A 4-YEAR SCHEDULE OR
2 CO-OPS ON A 5-YEAR
SCHEDULE

#1

CO-OP
SALARY

CCI STUDENTS
EARN THE HIGHEST
CO-OP SALARY
OUT OF ALL
DREXEL STUDENTS

98.5%

CCI STUDENTS
EMPLOYED ON
CO-OP

\$22

MEDIAN HOURLY
CO-OP SALARY FOR
CCI STUDENTS

Where our students co-op (sampling):

Amazon, Google, Microsoft, Apple, IBM, Johnson & Johnson,
Lockheed Martin, Comcast Corporation, Susquehanna International
Group LLP, SAP America, Oracle Primavera

CAREER FAST FACTS



98%
OF GRADUATES
ARE EMPLOYED OR
ENROLLED IN GRADUATE
EDUCATION

\$78,000
AVERAGE STARTING
SALARY FOR DREXEL
GRADUATES*

8 of the TOP 10
TOP JOBS OF
2021 ARE TECH
POSITIONS**

Where our graduates work (sampling):

Amazon, Google, Microsoft, Yahoo! Inc., Cisco Systems, IBM,
eMoney Advisor LLC, SAP America, Zynga, Comcast Corporation,
JPMorgan Chase & Co, Lockheed Martin, GlaxoSmithKline

Data sources: Drexel's Steinbright Career Center report, 2018-19 academic year;

*PayScale's 2021 College Report, BS Degree;

**Glassdoor's "50 Best Jobs in America for 2021" Report



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College of Computing & Informatics

3675 Market Street, Ste 1000

Philadelphia, PA 19104

215.895.2474

cciinfo@drexel.edu

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