



DREXEL UNIVERSITY

College of

Computing &  
Informatics

UNDERGRADUATE  
*Degrees*



Computer Science • Computing & Security Technology  
Data Science • Economics and Data Science • Information Systems  
Software Engineering • Undeclared

## 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 97% of our undergraduate students participating in co-op, it's clear our students are making an impact well before graduation.

**Join us at Drexel, where  
academics meet the real world.**



*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





## Connecting Industry to the Classroom

CCI's Corporate Partners Program aims to connect CCI with industry to create a large scale, sustainable ecosystem for the development, recruitment and retention of top tech talent.

Built on a core of innovation and collaboration, the program provides CCI students with a unique opportunity to engage with industry at various hands-on, technical workshops, co-op information sessions, in-person tours, and exclusive career networking events.

The Corporate Partners Program is comprised of more than 45 partners, including nonprofits, major corporations and startups that span a diverse range of industries.

*Learn more at* **[drexel.edu/cci/cpp](https://drexel.edu/cci/cpp)**

# *College of* **COMPUTING & INFORMATICS**

## **COMPREHENSIVE & INTEGRATIVE COVERAGE**

Take a look to see what we have to offer in each of our departments

> > >





# COMPUTER SCIENCE

Programming • Computer Theory • Game Development

## COMPUTING & SECURITY TECHNOLOGY

Computing Security • Networks & Servers • IT Management

## DATA SCIENCE

Data Mining • Social Media Analytics • Visualization

## INFORMATION SYSTEMS

User Experience Design • Systems Analysis • Data Architecture

## SOFTWARE ENGINEERING

Product Development • Quality Assurance • Software Design



# COMPUTER SCIENCE

**Learn about the theory and practice that makes computing effective**

The Bachelor of Science/Bachelor of Arts in Computer Science (BS/BA CS) 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



# MIHIR

## Rao

hometown: Amritsar, India

“ *As an academic discipline, Computer Science is the perfect blend of theory and practice.* ”

### **MOST RECENT CO-OP POSITION:**

Research co-op with CCI Assistant Professor  
Shahin Jabbari, PhD on Explainable AI

**FAVORITE COURSES:** CS457/CS458 - Data Structures and Algorithms I/II, CS440 - Theory of Computation, CS380 - Artificial Intelligence, CS383 – Machine Learning, CS270 - Mathematical Foundations of Computer Science, and CS172 – Computer Programming II

**DREAM JOB:** Computer Science Researcher & Consultant

### **ACTIVITIES / CLUBS / SOCIETIES:**

Drexel Computer Science Theory Reading Group, Maya Literary Magazine, and the Mathematics Student Organization



# COMPUTING & 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 CST grads:**

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





# BILLY

## Lerner

hometown: Somers, NY

**“***The CST major has allowed me to focus on gaining a foundational understanding of infrastructure in addition to learning about cybersecurity*

### **MOST RECENT CO-OP POSITION:**

Library Scientist at Epismart; Internal Controls Analyst at FMC Corporation; Systems Engineer at Susquehanna International Group.

### **WHEN HE'S NOT IN CLASS HE IS:**

going shopping on South Street

**DREAM JOB:** Being a Blue-Team security analyst for a video game company

### **ACTIVITIES / CLUBS / SOCIETIES:**

Drexel CyberDragons

# 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



# YARA

## Musad

hometown: Khartoum, Sudan



*Data science provides a unique blend of analytical challenges and opportunities to decode patterns that can have profound impacts on industries and individuals alike.*

### **MOST RECENT CO-OP POSITION:**

R&D Software Developer Co-op at iPipeline

### **WHEN SHE'S NOT IN CLASS SHE IS:**

exploring the city with friends or traveling to nearby states and exploring those.

**DREAM JOB:** Starting a company that aims to make technology more accessible to minority groups while offering comprehensive professional and personal development resources.

### **ACTIVITIES / CLUBS / SOCIETIES:**

Marketing Chair for Drexel Women in Computing Society (WiCS), Course Assistant for CCI, Member of National Society of Black Engineers (NSBE)



# ECONOMICS & DATA SCIENCE

**Learn how to leverage data to predict trends, solve business challenges, and make better decisions**

The **Bachelor of Science in Economics & Data Science (BSEDS)** program focuses on applying data science concepts in the economics domain, and allows undergraduate students to learn from subject matter experts in CCI and The School of Economics in LeBow's College of Business.

This interdisciplinary, STEM-designated combined degree teaches students how to manage, manipulate, and parse data to extract knowledge and insight. Through the study of economics, students learn how the design of platforms shapes incentives, drives behavior, and determine social and economic outcomes including equity and efficiency.

BSEDS majors are passionate about both business and data and the story that numbers can tell to help optimize and problem solve organizational challenges.

## **Available minors for BSEDS 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 BSEDS grads:**

Data Scientist,  
Market Research Analyst,  
Machine Learning Engineer  
or Applications Architect



# KELSEY

## Chong

hometown: Singapore

“

*This interdisciplinary major has enabled me to acquire fundamental skills at the intersection of business, social science, and technology, which align with my career interests.*

### **MOST RECENT CO-OP POSITION:**

Software Engineer at Macquarie Group

### **FAVORITE COURSES:**

INFO 250 Information Visualization & INFO 212 Data Science Programming I

### **DREAM JOB:**

Leading a team to create great products with good design and for humans in mind

### **ACTIVITIES / CLUBS / SOCIETIES:**

Tech Director of Drexel Women in Computing Society,  
Drexel InCHAARG, Web & Digital Designer at Drexel's  
Office of the Provost, NLP Research at Drexel  
Healthcare Informatics Lab

# 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!**

## **Sample job titles for BSIS grads:**

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





# QUYNH *Tran*

hometown: Bien Hoa, Vietnam



*I'm interested in learning how technology and data can help streamline processes and help organizations make meaningful decisions, ultimately driving innovation and efficiency in today's fast-paced world.*

**MOST RECENT CO-OP POSITION:**  
Cybersecurity Consultant at PwC

**FAVORITE COURSE AT DREXEL:**  
INFO 310 - Human-Centered Design Process & Methods

**DREAM JOB:**  
Technology consultant or Solutions Architect

**ACTIVITIES / CLUBS / SOCIETIES:**  
Drexel Women in Computing Society (WiCS)

# 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!**

## **Sample job titles for BSSE grads:**

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



# KYLE

## Quinlan

hometown: Chesterfield, NJ

*There is just something amazing about creating, designing and developing innovative and robust pieces of technology that form the world as we know it today and propel us into the future.*

### **MOST RECENT CO-OP POSITION:**

SAP AMERICA - STAR PROGRAM INTERN

### **WHEN HE IS NOT IN CLASS HE'S:**

spending time exploring the city! There are hundreds of incredible places to explore and things to do.

### **DREAM JOB:**

My dream job is to work as a software engineering manager. I really like to work with people and lead teams to success so combining that with my love of computers and programming sounds like the ideal job!

### **ACTIVITIES / CLUBS / SOCIETIES:**

Drexel Pep Band

# UNDECLARED

**For students who are not sure which major is right for them at the start, undeclared students may start in CCI without a major.**

Unsure about which major is right for you? As deciding where to start may be an obstacle for new students, Drexel offers an Undeclared option.

Whether in the classroom, extracurricular activities, or co-op, Drexel CCI students are always developing their interests and aptitudes throughout their degree.

With the guidance of our faculty and academic advisors, students benefit from Drexel's hands-on, experiential approach to learning in better understanding their passions, strengths, and personal career goals.

To help with picking a major, undecided students will explore CCI majors in depth by working closely with academic advisors to assess their interests and help map them to classes and majors, and by attending additional workshops and lectures hosted by faculty members and CCI Corporate Partners. Undeclared students will still start in the College as freshmen while taking math and programming classes in their first year, just like other CCI students.

“

***I had actually never considered going into computing before I came to Drexel as an undeclared student! I loved my freshman year math courses, so I spoke to my professors about careers using that material and they all pointed me towards CCI. I decided to take an Intro to Computing course while majoring in math my sophomore year, and I fell in love with the mix of logical problem solving and creativity and design.”***





# SARA

## Beinrich

hometown: Montclair, NJ

### **MOST RECENT CO-OP POSITION:**

Integration Engineer at Comcast  
on the Business Services Delivery team;  
Software Engineer at Nuuly (URBN) on the  
Customer Experience Services Team

### **WHEN SHE IS NOT IN CLASS SHE'S:**

often exploring Philly neighborhoods or restaurants  
she hasn't tried yet. She also tries to see  
as many shows as possible, whether it be theater, ballet, or a movie.

### **FAVORITE COURSES:**

CS-270 Mathematical Foundations of Computer Science;  
SE-181 Introduction to Software Engineering and Development

### **ACTIVITIES / CLUBS / SOCIETIES:**

Drexel Women in Computing Society (WiCS)

# CCI CO-OP *Fast Facts*

**\$25**

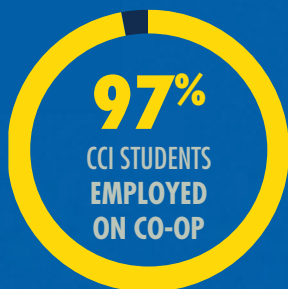
MEDIAN HOURLY CO-OP  
SALARY FOR CCI STUDENTS

**1 OR 3**

COMPLETE 1 CO-OP ON A 4-YEAR  
SCHEDULE OR 3 CO-OPS ON A  
5-YEAR SCHEDULE

**#1** CO-OP  
SALARY

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



OF GRADUATES ARE  
EMPLOYED OR ENROLLED IN  
GRADUATE EDUCATION

**\$83,000**

AVERAGE STARTING  
SALARY FOR DREXEL  
GRADUATES\*

**4 of the TOP 10**

TOP 100 JOBS OF 2024  
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, 2021-22 academic year;

\*PayScale's 2023 College Report, BS Degree;

\*\*U.S. News & World Report's "100 Best Jobs 2024" Report



**Apply Today at**  
**drexel.edu / apply**

**COLLEGE OF COMPUTING & INFORMATICS**

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