Gregory Hislop, PhD
Faculty, College of Computing & Informatics

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Teaching:
- Undergraduate and Graduate Software Engineering
- Senior Project Sequence

Research Interests:
- Humanitarian Open Source Software
- Software Evaluation & Characterization
- Computing Education Research
The College of Computing & Informatics

- One of the most comprehensive academic units in the nation
  - Focal point for computing at Drexel
  - Five undergraduate majors
- Co-op: An experiential reflection of industry demand
- 60 Full-Time Faculty
- 1,500 Undergraduate Students
- 600 Graduate Students

- Diverse student population and faculty
- Special commitment to Women in Technology
- Tier 1 Research Institution
- Philadelphia: Be at the cultural center of it all

#newdragons
“Networking with other women in tech fields has taught me a lot. It’s great to learn other people’s stories and discover how they got to be where they are right now.”

- Minh Le, BS Computer Science ‘21
A wide range of academic opportunities
Comprehensive Coverage of Computing and Informatics

Computer Science

Data Science

Software Engineering

Information Systems

Computing & Security Technology

Computing Theory
Programming

Computing Application Client Needs

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Computer Science (BS or BA)

Foundations, theory, and depth in specialty areas of the science of computing

- Complete required and elective courses from a variety of tracks:
  - Artificial Intelligence
  - Graphics and Interaction
  - Computer and Network Security
  - Game Design and Development
  - Data Structures and Algorithms
  - Programming Languages
  - Computer Architecture
  - And Many More!

- Concentration in Computer Security
- Concentration in Game Programming and Development (GMPD)
Game Programming & Development Concentration

- Combines software development, programming and design skills
- Joint Program with Westphal College of Media Arts & Design
- Two tracks included:
  - Game Development and Design
  - Student’s Choice of Second Track
BS in Software Engineering

Software systems designed and built by teams

- Requirements, design, and development
- Development tools and techniques, product evolution, quality assurance, secure software
- Challenges:
  - Designing software that people enjoy using
  - Leading software development teams
  - Delivering high quality software products on time, within budget
IT Infrastructure management, planning, operation, and security

- Core IT infrastructure areas: networks, servers, databases, cloud and network security, ethical hacking, and more

- Concentrations in two areas
  - Computing Technology
  - Computing Security
BS in Information Systems

Technology applied to meet the information needs of individuals and organizations

- Bridging two worlds:
  - Interact with clients to understand their information needs
  - Work with software developers to implement solutions
- Focus on requirements and system design, database definition, user experience and human-computer interaction
- Minor included in the degree
BS in Data Science

Discovery and visualization of information hidden in oceans of data

- Provide unique insights for science, business, or social good
- Harness Big Data through data mining, data visualization, data curation, and exploratory data analysis
- Develop insights about people’s behavior and solve problems that require huge and varied datasets.
- Minor included in degree (typically business or natural science)
Explore All of the CCI Majors in Greater Depth Freshmen Year, before you commit

- Pre-arrival: Complete math placement exam and interest survey
- Work closely with CCI advising to select courses
- Participate in additional sessions about majors and career paths
- Declare major by the end of second term
- Complete freshman year in a CCI major
Comprehensive Coverage of Computing and Informatics

- Computing Theory
- Game Development
- Programming
- Software Engineering
- Computing Science
- Result Interpretation
- Social Media Analytics
- Data Science
  - Data Mining
- Information Systems
  - Data & Info Management
  - User Experience
  - Requirements Specification
- Computing & Security Technology
  - Digital Forensics
  - Information Security
  - Servers and Networks
- Team Dynamics
- Quality Assurance
- Software Design
- User Experience
- Requirements Specification

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First Year at CCI – What Will You Study?

- Pre-arrival: Complete placement exams
- Introductory coursework in your major
- Introductory programming
- Introduction to Drexel student life via UNIV 101
  - Co-op and Civic Engagement
  - Builds community among students, faculty, and staff
- CCI first-year design sequence – all CCI majors
  - Explore the basics of all the CCI majors
  - Work on a team project in an area you choose
- Project-based curriculum
- Math, English and (for some majors) Science
Test drive your career: Cooperative education (Co-op)
Cooperative Education (Co-op)

- Steinbright Career Development Center
- Gain diverse range of professional work experience
  - Up to 1 ½ years
- 98% of CCI Students were employed on co-op in 2017-2018
- Average weekly salary in 2017-2018 was $833

One Co-op Option:
This option takes four years to complete

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Three Co-op Option:
This option takes five years to complete

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Co-op Key:
- ● On-campus study
- ■ Co-op experience
- ◆ Vacation
Sample CCI Co-op Employers

- Comcast
- Amazon
- eMoney
- Lockheed Martin
- Johnson & Johnson
- Wawa
- American Water
- Security Risk Advisors
- PJM
- Electronic Arts
- SAP
- The Children's Hospital of Philadelphia
- DXC
- Microsoft
- Coop Onehundred
STEM Job Growth Through 2028

- Computing: 76%
- Engineering: 12%
- Mathematics: 7%
- Natural Sciences: 5%

Source: U.S. Bureau of Labor Statistics
The CCI Student Experience
Garrett, Sophomore Software Engineering

Josh, Junior Information Systems


Rayan, Sophomore Computer Science

Sabah, Junior Data Science

Speak To A Dean’s Ambassador Today!

Visit: drexelcci.info/ugda

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Congratulations New Dragon!