

TALWAR COLLEGE OF ENGINEERING AND COMPUTER SCIENCES

PROGRAM LEAD

Dr. Stephanos Mavromoustakos

Dr. Mavromoustakos' academic, research and professional expertise is on web engineering, human-computer interaction, and information security. He has more than 25 years of experience as a professor, consultant, analyst, programmer, project manager and CEO. Most recently, he taught undergraduate- and graduate-level computer science courses at the University of Windsor in Ontario, Canada. He currently serves on the Board of many organizations and scientific committees.

- Ph.D., Computer Science, University of Cyprus
- M.I.B.A., International Business, Nova Southeastern University
- M.S., Computer Information Systems, Nova Southeastern University
- B.S., Computer Information Systems, Nova Southeastern University

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Cybersecurity, B.S.

ind.tc/child-development-bs

Indiana Tech's Bachelor of Science in Cybersecurity will prepare you for a career and leadership within the rapidly expanding cybersecurity field. Our program blends the technical aspects of cybersecurity, information security, network security, network penetration, digital forensics and defensive CyberOps with a fundamental understanding of criminal investigation. Hands-on coursework in computer programming, networking, electronics and criminology will arm you with the expertise that today's companies and law enforcement/intelligence agencies are looking for to protect data.

Why choose Indiana Tech?

Our program combines a strong technology core with criminal justice coursework to help you develop into a well-rounded cybersecurity professional sought by industries of every description.

- You will learn to evaluate vulnerability risks and determine appropriate security measures to protect organizations before cyberattacks occur.
- Recent state-of-the-art additions to the department include a security operations center, a digital forensics lab and an interactive data center to strengthen learning experiences for our students.
- Indiana Tech fosters an active learning environment, enriched by instructors who possess years of experience in their respective fields.

CAE-CD Designation

Indiana Tech is a Center for Academic Excellence in Cyber Defense—a verification from the National Security Agency and the Department of Homeland Security that our cybersecurity students are receiving top-notch education to become leaders in a variety of cybersecurity fields.

Curriculum

Required Core Courses

- CJ 1100 - Intro to the Criminal Justice Systems
- CJ 2500 - Basics of Criminal Investigation
- CS 1250 - Problem Solving for Programmers
- CS 1300 - Computer Science I
- CS 1350 - Computer Science II
- CS 1500 - Introduction to Server Systems
- CS 2500 - Database Systems
- CYS 1100 - Introduction to Cybersecurity
- CYS 2100 - Network & Web Security Analysis
- CYS 2310 - Defensive CyberOps and Audit
- CYS 3200 - Digital Forensics
- CYS 3500 - Offensive CyberOps & Vulnerability
- CYS 4100 - Cybersecurity Project I
- CYS 4200 - Cybersecurity Project II
- CYS 4950 - Cybersecurity Internship
- IIT 1000 - University Experience
- IIT 2000 - Pre-Internship Seminar
- IS 2100 - Web Development I
- IS 4600 - Disaster Recovery
- LS 2400 - Criminal Procedural Law
- MA 1055 - Applied Trigonometry
- MA 2025 - Statistical Problem Solving
- NET 1200 - Network Design I
- NET 1250 - Network Design II
- NET 1500 - PC Hardware and Software Support
- NET 2300 - Script Programming
- NET 3300 - Network Security
- PSY 1700 - Introduction to Psychology
- PSY 4540 - Forensic Psychology

Warriors in the Workforce

Indiana Tech graduates with this degree have earned jobs at:

- Lincoln Financial Group
- Fort Wayne Police Department
- Walmart Distribution Center
- Indiana Tech

Internship Opportunities

Indiana Tech students pursuing this degree have interned with:

- Do it Best, Corp.
- Ash Brokerage
- Parkview Health
- Franklin Electric
- Ruoff Mortgage
- Bosch
- Brotherhood Mutual

Joey Miller

B.S. Cybersecurity, 2018

When Joey was researching colleges, he knew he wanted to be a part of a smaller university environment with quality campus facilities. Indiana Tech fit the bill, and then some.

"The small class sizes and personal interactions with professors and other faculty members helped prepare me for communicating effectively in a business environment," said the Rockford, Illinois, native. "I met friends that I am positive I will keep in touch with for years to come, too."

When he left Indiana Tech to work for Ticomix, a custom software development company based in Loves Park, Illinois, Joey had no doubt he was ready to enter the workforce.

"Indiana Tech's Career Center does great work preparing students for the job market, and it helped me form a baseline of what to expect outside the classroom," Joey said. "My degree covered the core concepts I needed, and the senior presentation experience proved helpful when I was asked to give a presentation to prospective clients a few weeks into full-time work."

Joey is now a senior programmer/analyst with Indiana Tech's information technology department.