The volume and sophistication of cybersecurity threats point to a critical demand for research and education in the general area of cybersecurity, which is highly interdisciplinary by nature. Elements from computer science and information technology management form the basis for systems-related technologies to secure typical vulnerabilities. In addressing this growing critical demand, the Certificate in Cybersecurity Systems (CCSS) offered at UT Dallas provides a joint program between the Erik Jonsson School of Engineering and Computer Science and Naveen Jindal School of Management.

Graduate Certificate in Cybersecurity Systems (CCSS)

12 semester credit hours

Faculty

Faculty and lecturers for the courses in this certificate program are drawn from the Department of Computer Science in the Erik Jonsson School of Engineering and Computer Science, and from the Naveen Jindal School of Management.

Overview

The CCSS requires 12 semester credit hours, and may be combined with other courses and/or certificates toward an MS degree in Computer Science, Information Technology and Management, or Business Analytics, provided that the student has gained admission into that particular program.

To earn the certificate, students in the program must complete four courses with an overall GPA of 3.0 and no course grade should be below a C.

Required Course:

MIS 6330 Cybersecurity Fundamentals

Track #1: Computer Science (CS) Emphasis (9 semester credit hours)
Choose three courses from the following:

- **CS 6324** Information Security
- **CS 6348** Data and Applications Security
- **CS 6349** Network Security

Any course from the list of existing cybersecurity systems in Computer Science courses (offered periodically, and must be approved)

Track #2: Cybersecurity Management Emphasis (9 semester credit hours)

- **MIS 6333** Digital Forensics and Incident Management
- **MIS 6337** Information Technology Audit and Risk Management

In addition, choose one course from the following:

- **MIS 6363** Cloud Computing Fundamentals
- **MIS 6316** Data Communications
- **MIS 6368** Applied Cybersecurity Analytics and Risk Management
- **MIS 6389** AWS Cloud Solution Architecture
- **ACCT 6380** Internal Audit
- **ACCT 6334** Auditing
- **ACCT 6384** or **MIS 6339** Analytical Reviews Using Audit Software
- **ACCT 6386** Governance, Risk Management and Compliance (GRC)
- **ACCT 6383** Fraud Examination