

presents 3 day mini-course on

Cyber Security Essentials

Instructor: **Dr. Bhavani Thuraisingham**

May 30, 31 & June 1: 9am – 4pm daily

@ ECSS 2.102 (TI Auditorium)



Overview: This three-day course will first cover the essential topics in cyber security. In particular, the technical topics in the CISSP curriculum will be discussed. In addition, some advanced topics will be discussed on Day 3.

Who Should Attend: The course is essential for anyone who wants to gain an understanding of the essential topics in cyber security. The advanced topics will give an overview of the current trends. Students are expected to have a basic knowledge of computer science (including computer systems such as operating systems, database systems, and networks). Some knowledge of mathematics is also needed (e.g., algebra, calculus).

Register @ bit.ly/cscutd17

Fee: \$449 (until May 8), \$499 (until May 26) & \$549 (walk-in)

Breakfast & Lunch included, Detailed agenda in next page

Corporate Sponsors / Questions? Email csk12@utdallas.edu

Cyber Security Essentials Agenda

Day 1: Tuesday, May 30

Introduction to the Course

Unit 1: Cyber Security Governance and Risk

Unit 2: Access Control

Unit 3: Security Architecture

Unit 4: Cryptography

Day 2: Wednesday, May 31

Unit 5: Database Security and Privacy

Unit 6: Network Security

Unit 7: Legal Issues, Compliance, and Digital Forensics

Unit 8: Additional Topics: Business Continuity Planning, Security Operations, Physical Security

Day 3: Thursday, June 1

Advanced Topics

Unit 9: Secure Web Services

Unit 10: Secure Cloud Computing

Unit 11: Data Mining for Malware Detection

Unit 12: Critical Infrastructure Protection

Reference Book: *All in One CISSP* by Shon Harris, 7th Edition, McGraw Hill

Instructor biography: **Dr. Bhavani Thuraisingham** is the Louis A. Beecherl, Jr. Distinguished Professor of Computer Science and the Executive Director of the Cyber Security Research and Education Institute (CSI) at The University of Texas at Dallas.

She is an elected Fellow of IEEE, the AAAS, the British Computer Society, and the SPDS (Society for Design and Process Science). She received several prestigious awards including IEEE Computer Society's 1997 Technical Achievement Award for "outstanding and innovative contributions to secure data management", the 2010 ACM SIGSAC (Association for Computing Machinery, Special Interest Group on Security, Audit and Control) Outstanding Contributions Award for "seminal research contributions and leadership in data and applications security for over 25 years" and the SDPS Transformative Achievement Gold Medal for her contributions to interdisciplinary research.

She has unique experience working in the commercial industry (Honeywell), federal research laboratory (MITRE), US government (NSF) and academia and her 36 year career includes research and development, technology transfer, product development, program management, and consulting for the federal government. Her work has resulted in 100+ journal articles, 200+ conference papers, 100+ keynote and featured addresses, eight US patents (three pending) and fifteen books (one pending). She is a strong advocate for women in computing and has delivered featured addresses at events organized by the CRA-W (Computing Research Association), SWE (Society for Women Engineers) and WiCys (Women in Cyber Security).