



Cyber Security Professional Development Courses

The following courses are offered for professional development/noncredit.

The Wayne State University Computer Science Department in the College of Engineering is including cyber security certifications within some of their courses. The program teaches participants students to account for the insecurities of data and technology in today's world. Participants develop the ability to think critically about cyber issues and apply the body of knowledge from the certifications to address threats. Course descriptions are listed below.

The industry certifications included in these course are the Certified Information Systems Security Officer and the Certified Information Systems Security Professional, among others. These courses are also open to the general public for professional development through our Executive and Professional Development program. Participants learn in the same class with our students and learn from the same faculty, without having to go through the admissions process or pay full tuition.

Who Should Attend?

- Network administrators
- Site administrators
- Security managers
- Security officers
- IT auditors
- Business analysts

Registration

By telephone or mail with check.

Contact us to find out current course schedules or to bring this expertise to your organization.

313-577-4595 (M-F, 9 a.m.—4 p.m.)

No refunds will be given after the course starts.

To receive academic credit, inquire for details at the number below.

Please register me for:	
_____	_____
_____	Name
_____	_____
_____	Billing Address
_____	_____
Fees:	E-mail _____
_____	Phone # _____
_____	Method of Payment: <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover
_____	<input type="checkbox"/> Check: Payable to Wayne State University
_____	Credit Card # _____ Exp. Date _____
_____	Signature _____ 3-digit code _____



PERSONAL DIGITAL SECURITY

Technology is constantly changing the way that we communicate and access the internet. There are inherent dangers to using technology that include privacy infringement, device damage, personal and financial loss. This course teaches participants how to easily and significantly reduce their exposure to risks. All while enjoying the reward of the most modern technologies offered today. Participants will also learn how to identify, assess, and repair devices that are already infected.

\$1,800 (Also available for WSU credit Computer Science (CSC 1002))

This online course requires the text, *Personal Digital Security: Protecting Yourself from Online Crime*, by Michael Bazzell (ISBN: 9781491081976) and is available at the WSU Bookstore.

NETWORK PENETRATION TESTING

Learn Fundamental and Advanced Skills in Penetration Testing

In this course, you will obtain real-world security knowledge that will enable you to recognize vulnerabilities, exploit system weaknesses and help safeguard against threats. You will learn the art of ethical hacking with a professional edge.

The course's foundation is built firmly upon proven penetration testing methodologies. The course presents information based on the five Key Elements of Pen Testing: Information Gathering, Scanning, Enumeration, Exploitation and Reporting. The latest vulnerabilities will be discovered using these tried and true techniques.

This course goes far beyond simply teaching you to "Hack". Be prepared to learn penetration testing using advanced persistent threat techniques along with the highest-level ethical hacking methodologies. This course also enhances the business skills needed to identify protection opportunities, justify testing activities and optimize security controls appropriate to business needs in order to reduce business risk.

The course was developed around principles and behaviors used by malicious hackers. The course is taught with this in mind while keeping the focus on professional penetration testing and ensuring the security of information assets.

\$1,800 (Also available for WSU credit Computer Science (CSC 5991-006))

Fee includes workbook, CD of Software/Tools, key security concepts and definitions book, quick tips section, summary section, and question/answers for each module. Participants who complete the course and receive a score of at least 70% will be awarded the CPTC certification.



INTRODUCTION TO APPLIED SECURITY

Learn to Analyze & Mitigate IT Security Threats and Risks

This course addresses the broad range of industry best practices, knowledge and skills expected of a security leader. You will learn both the theory and the requirements for practical implementation of core security concepts, practices, monitoring and compliance. You will learn to implement and maintain cost-effective security controls that are closely aligned with business requirements.

This introductory course is an ideal way to increase your security knowledge and skill. It will cover risk management, security management, authentication, access control, operations security, networking, business continuity, and much more.

This program is closely aligned with the leading standards of ISO27001, NIST, CISM® and the 2012 CISSP® CBK® Exam objectives, and it excels by providing a well-rounded and comprehensive overview of each topic area without being restricted to a single model or conceptual approach. This course prepares you for the Certified Information Systems Security Officer - CISSO certification exam through Mile2, which is included. It also prepares you for the Certified Information Systems Security Professional-CISSP exam, which can be taken separately through (ISC2).

\$1,800 (Also available for WSU credit Computer Science (CSC 5991-005))

Fee includes workbook, CD of Software/Tools, key security concepts and definitions book, quick tips section, summary section, and question/answers for each module. Participants who complete the course and receive a score of at least 70% will be awarded the CISSO certification.

Digital and Network Forensics

Master Advanced Digital and Network Forensics.

During this cybersecurity course, you will learn advanced networking forensics skills and techniques. You will gain practical experience through intensive lab exercises that simulate real-world scenarios covering investigation and recovery of data in networks, physical interception, traffic acquisition, attach detection, analysis of wireless attacks and protocol analysis, content searching and matching. The course focuses on the centralizing and investigating of logging systems as well as network devices.

\$1,800 (Also available for WSU credit Computer Science (CSC 5991-005))



Topics in Computer Security

A Must-Take Course for Participants Interested in Cyber Security Research

The course is designed for participants interested in computer security research and helps them get started. It will focus on topics including system security, mobile security (Android and iOS), authentication and password management, web security, privacy and anonymity, IoT security, hardware security, and attacks. The course centers around readings and discussions and includes a term project. Participants are expected to read the assigned papers, answer the posted reading questions, and present papers. The term project is essentially a mini research project that involves building a new system, improving an existing technique, or performing a large case study.

\$1,800 (Also available for WSU credit Computer Science (CSC 5991-005))