

ITSY 1074 Course Syllabus for Spring, 2008

12 February to 27 March, Tue & Thr, 6pm-10pm, ACC Highland Campus

1. Name of Course: Certified Information Systems Security Professional (CISSP)

2. Number of Clock Hours: 48 hours

3. Course Description:

This course reviews the knowledge required for each of the 10 domains of the CISSP Common Body of Knowledge (CBK). The course prepares security practitioners with 5 years of security related experience or 4 years of experience plus a 4-year college degree to sit for the (ISC)2 CISSP exam. The course consists of structured discussions and practice exercises to reinforce the fundamental concepts and specifics of the CBK, all presented by CISSP certified instructors.

4. Course Objectives

At the end of this course, students will:

- Have greater understanding of security concepts and practices
- Understand the interrelationships between the 10 areas of the CISSP CBK
- Know what level of understanding is required to pass the CISSP exam

5. Rationale:

Upon completion of this course, students will be better prepared to take the CISSP exam, the leading vendor neutral security certification and will have a balanced exposure to key security principals and practices.

6.1. Required Materials:

CISSP All-In-One Exam Guide, 4th Edition, November 9, 2007 (ISBN 978-0071497879)

6.2. Recommended Supplemental Text

Official (ISC)2 Guide to the CISSP CBK, November 2006 (ISBN 978-0849382314)

6.3. Recommended Alternate Supplemental Text

Mike Myers' CISSP Certification Passport, by Shon Harris. (ISBN 978-0072225785)

7. Evaluation

Those who participate in class discussions, complete course lab work, and miss no more than three class meetings will be awarded 4.8 continuing education units. Quizzes will be handed out each class period with a sample exam on the final night.

8. Suggested Reading Strategy

The books are big – studying the CISSP Common Body of Knowledge (CBK) involves a lot of reading. The All-In-One, 4th Ed. is a great book overall and though long, easy to read. The (ISC)2 book has a huge glossary and is good for looking up specific topics. The Passport book, though older, can be completed in a weekend to get an overview of the CBK. The “For Dummies” book is similar in length to Passport.

9. Course Outline

1. Introduction to Security

Tue 12 February Stephen

- Introduce Instructors
- Class Rules and Expectations
- CISSP Cert Requirements
- Basic Security Knowledge Review
- TCP/IP basics
- Reading Assignment

AIO chapter 1 and 2, and p481-p505

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- 2. Security Management Practices** **Thr 14 February** **Victoriano**
 - Organizational Issues, Policies, Procedures, and Guidelines
 - Risk Analysis
 - Information Classification
 - Reading Assignment AIO chapter 3

- 3. Access Control Systems and Methodology** **Tue 19 February** **Dietch**
 - CIA, AAA, and Access Control models
 - Access Control Types, Methods, Practices and Monitoring
 - Access Control Threats
 - Reading Assignment AIO chapter 4

- 4. Security Architecture and Design** **Thr 21 February** **Dietch**
 - Computer and System Architecture
 - Security Models and Modes of Operation
 - Systems Evaluation Methods (ITSEC, CC, C&A etc.)
 - Reading Assignment AIO chapter 5

- 5. Physical Security** **Tue 26 February** **Victoriano**
 - Facilities Risk, Admin Controls and Security Management
 - Environmental & Fire Issues
 - Perimeter Security
 - Reading Assignment AIO chapter 6

- 6. Telecommunication and Network** **Thr 28 February** **Cris**
 - TCP/IP and OSI Models
 - Network topologies, protocols, and devices
 - WAN, Remote Access and WLAN
 - Reading Assignment AIO chapter 7 *Note: this is a BIG chapter.*

- 7. Cryptography** **Tue 04 March** **Cris**
 - History and foundations of cryptography
 - Crypto implementations
 - Crypto attacks
 - Reading Assignment AIO chapter 8

- 8. Business Continuity / DR Planning** **Thr 06 March** **Steve-H**
 - BC/DRP policies and organizational programs
 - Backup and Recovery Strategies
 - BC/DRP Testing and Exercises
 - Reading Assignment AIO chapter 9

- <...SPRING BREAK WEEK MARCH 10-14...>**

- 9. Applications and System Development** **Tue 18 March** **Mano**
 - Database Management
 - Systems Development and Test
 - Application Development Methodologies
 - Reading Assignment AIO chapter 11 *Note: a VERY BIG chapter.*

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10. Law, Investigations, and Ethics Thr 20 March Kathleen

- Ethics, Liability and Computer Crime
- Computer Crime Investigations & Forensics
- Laws, Directives and Regulations
- Reading Assignment AIO chapter 10

11. Operations Security Tue 25 March Mano

- Operational Security and Monitoring
- Configuration Control
- Email Security
- Reading Assignment AIO chapter 12

12. Review Practice Exam Thr 27 March Kathleen

- Review
- Practice Exam and Questions
- Reading Assignment Review Exam Tips from Text
- Demonstrations/Practical Web Resources

9. Instructors

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