Syllabus

CS 136

UCLA

Spring 2014

The textbook for this course will be *Computer Security: Art and Science*, by Matt Bishop.

The due dates listed here for the lab exercises are tentative, and may be adjusted after the course starts.

Week 1 (March 31-April 6)

    Lecture 1: Introduction: Class Description and the Security Problem

    Lecture 2: Security Principles, Policies, and Mechanisms

    Deter Lab 1: Introduction to Deter due April 6

Week 2 (April 7 - 13)

    Lecture 3: Introduction to Cryptography

    Lecture 4: Cryptography, Continued

Week 3 (April 20 - 26)

    Lecture 5:   Cryptographic Keys

    Lecture 6:   Security Protocols

    Deter Lab 2: Permissions and Firewalls due April 26

Week 4 (April 27 – May 2)

    Lecture 7:   Authentication

    Lecture 8:   Operating System Security

    Deter Lab 3: Software Exploits due May 2

Week 5 (May 3 - 9)

    Lecture 9:   Network Security

    No second lecture this week due to the midterm

Week 6 (May 10 – 16)

        Lecture 10:   Network Security, Continued

        Lecture 11:   Intrusion Detection Systems

        Deter Lab 4: Computer Forensics due May 16

Week 7 (May 17 - 23)

        Lecture 12:   Malware

        Lecture 13:   Secure Programming

        Deter Lab 5: Man in the Middle Attacks due May 23

Week 8 (May 24 – 30)

        Lecture 14:   Secure Programming, Continued

        Lecture 15:   Evaluating System Security

        Deter Lab 6: TCP SYN Flood due May 30

Week 9 (May 31 – June 6)

        Lecture 16:   Web Security

        Lecture 17:   Privacy

Week 10 (June 7 - 13)

        Lecture 18:   Securing Your System

        Lecture 19:   TBA

Final exam: June 9, 6:30-9:30 PM