

# Shaw University

## College of Graduate and Professional Studies Department of Computer Information Science

Dept Chair: Dr. W. Johnson, Professor  
Office: 3 Office Phone: 546-8383 E-mail: wjohnson@shawu.edu

### CSC 475 Special Topics--- Computer Security

**Instructor:** \_\_\_\_\_

**Office:** Graphics Building

**Office Phone:** 546-8383

**E-mail:** \_\_\_\_\_

**Webpage:** \_\_\_\_\_

**Class Time:** \_\_\_\_\_

**Class Room:** \_\_\_\_\_

#### I. Course Description

This course will introduce basic concepts of computer security: confidentiality, integrity, availability, policy and enforcement --- cryptography and system-based access control mechanisms, and security assurance.

#### II. Text

Computer Security --- Art and Science  
By Matt Bishop

#### III. Anticipated Course of Action

Intro:

Chapter 1: An Overview of Computer Security

Policy:

Chapter 2: Access Control (2.1-2.2)

Chapter 4: Security Policies (4.1-4.4)

Cryptography:

Chapter 9: Basic Cryptography

Chapter 10: Key Management (10.1-10.2)

Chapter 11: Cipher Techniques (11.3)

Chapter 12: Authentication

Noncryptographic Mechanisms (Systems):

Chapter 13: Design Principles

Chapter 14: Representing Identity (14.1-14.4)

Chapter 15: Access Control Mechanisms (15.1-15.2)

Assurance:

Chapter 18: Introduction to Assurance

#### IV. Evaluation

Class participation	10%
Homeworks	20% (Late will be 20% penalized for each day)
Two Quizzes	20%
Midterm	20%
Final Examination	30% (Comprehensive)

**Ethical Responsibilities:** Students are also expected to demonstrate ethical policies and practices in the course. Cheating will not be tolerated (zero Tolerance) If caught, you will receive a zero.

### **USE OF THE SHAW UNIVERSITY LIBRARY**

**It is imperative that you familiarize yourself with the instructional materials that are available to you in the James E. Cheek library on campus. Not only are there numerous books, periodicals, magazine articles, encyclopedias, and newspapers on hand for your perusal in our Library. There are course textbooks and related instructional materials that your professors have placed On Reserve for you as well. In addition, there you will have access to state-of-the-art computers and laptops, which help to place the world virtually at your fingertips. Don't wait another day. Become a regular patron at the James E. Cheek Library here on the campus of Shaw University. You'll become a far better scholar, a more capable and well-rounded intellectual, and a sharper and more competitive individual. It's your library. Use it!**