**ISDS 418 – Privacy and Security**

Have you ever wondered how organizations protect their information technology (IT) infrastructure from hackers’ attacks? In today’s threat environment, securing IT systems is one of the top priorities for private- and public-sector organizations. This course will introduce you to the essential knowledge in IT security, as well as tools/countermeasures used by organizations to protect their information assets which are important in knowledge-oriented markets.

**Course Description**

This course covers topics in computer security and privacy from the perspective of a business enterprise. The Security Requirements Triad is the major framework of this course. Building on this framework, we investigate topics including cryptography, which forms the basis of ensuring privacy and protecting computers, computer security, and organizational issues in security management.

Upon completion of the course, students should be able to:

2. Understand the main cryptographic protocols and their applicability in different systems.
3. Compare and contrast symmetric and asymmetric encryption and decryption algorithms.
4. Articulate the technical functions of user and Internet authentications.
5. Understand intrusions and denial-of-service attacks and their countermeasures.
6. Describe the different methods and tools of organizational security management and controls.

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1 Dr. Samuel Yang (Instructor) has published books and in various academic journals. You can contact Dr Yang at syang@fullerton.edu for more information about the course.