

**Course number and name:** **CS 01211: Principles of Information Security**  
**Credits and contact hours:** 3 credit /3 contact hours  
**Instructor's or course coordinator's name:** Gilbert E. Gonzalez  
**Text book, title, author, and year:** Whitman, Michael E. and Herbert Mattord, *Management of Information Security*, Cengage Learning, 2019.

#### Specific course information

**Catalog description:** Students will be exposed to the spectrum of security activities, methods, technologies, and threats. This course will cover a range of key topics in the area of information and computer security including inspection and protection of information assets, detection of and reaction to security threats, taxonomy of security threats, and concentrating on issues in computer and operating systems security, principles of network security, and basics of cryptography.

**Prerequisites:** None

**Type of Course:**  Required  Elective  Selected Elective

#### Specific goals for the course:

1. By the end of the course, students will develop an understanding of information security architecture and strategies.
2. Students will explore the dynamic landscape of information security and develop the ability to identify and prioritize information assets.
3. Students will consider the legal and societal implications of the increasing prevalence of information security breaches.
4. Readings from the course textbook, case studies, and guest speakers will serve as the primary means for exploring the constantly evolving field of information security.

#### Required List of Topics to Be Covered:

1. Introduction to the Management of Information Security
2. Compliance: Law and Ethics
3. Governance and Strategic Planning for Security
4. Developing the Security Program
5. Personnel and Security
6. Risk Management: Identifying and Assessing Risk
7. Risk Management: Controlling Risk
8. Security Management Models

9. Security Management Practices
10. Planning for Contingencies
11. Protection Mechanisms