COLLEGE OF BUSINESS
Fire and Emergency Services Administration Program
FESA 4364: Introduction to Cybersecurity for Fire and EMS
August 25 – December 12, 2025

A. MAJOR COURSE DESCRIPTION/REQUIREMENT

This course is an introduction to the field of Cybersecurity for those who are curious about it, and who want to be literate in the field. Learners will gain an overview of the Cybersecurity landscape including perspectives from both an international and national (USA) arenas along with a starter to the threat potential and the legal consequences. curious about it, and who want to be literate in the field. Learners will gain an overview of the Cybersecurity landscape including perspectives from both an international and national (USA) arenas along with a starter to the threat potential and the legal consequences.

B. LEARNING OUTCOMES

1. Identify key terms and concepts in the field of cybersecurity, relating them to real world scenarios
2. Apply key concepts to building awareness of cybersecurity issues in your own organization;
3. Distinguish among threat actors and their motivations in a historical context;
4. Match appropriate types of controls to the actions of different threat actors and your organization;
5. Compare and contrast cybersecurity operating and legal environments across international boundaries and explain how they impact one another

C. LECTURE OR DISCUSSION TOPICS

Overview of the cybersecurity landscape;
The Need for Security
Legal, Ethical, and Professional Issues in Information Security
Risk Management
Security and Personnel
Planning for Security
Security Technology: Firewalls, VPNs, and Wireless
International and national (USA) perspective;
Threat actors.

D. REQUIRED OR RECOMMENDED READINGS

Cyber Security: Bridging The Gap Between Technician and Management, James R. Phelps and Ervin Frenzel, Kendall Hunt Publishing, ISBN 9781524921965