ELEC2218 - Building Automation II

Credits:	2 (0/2/0)
Description:	This course is a continuation of Building Automation I. Topics covered include more critical building safety and security systems. These systems include fire systems and security and access control systems; voice, data and video systems; and automated building operations. Students will gain hands-on experience installing, programming and troubleshooting live systems.
Prerequisites:	• ELEC2217
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Compare and identify the functions of fire alarms and fire suppression systems, different types of signaling and how devices are triggered. 2. Identify and describe the wiring, signaling modes, initiating devices and their operation. 3. Compare the different types of security systems, types of protection and supervision, and the behaviors and arming options of each. 4. Describe control panel operation, selection and operation of sensing, notification and interface devices. 5. Describe how to integrate security systems with other building systems for additional public safety. 6. Describe access control systems, common features, and different types of credential and barrier devices. 7. Identify common strategies for integrating access control systems with other building systems for additional public safety. 8. Describe different types of video-data-voice systems and their integration with other building systems. 9. Compare features, advantages and control applications for digital video-data-voice systems. 10. Identify ways in which controls for different building systems interact in an integrated building automation system. 11. Evaluate the possibilities for green buildings, alternative energy savings and life safety systems integrated into common commercial buildings, homes and industries.
MnTC goal areas:	None

**Can be taking as a Prerequisite or Corequisite.*

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