

## 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:	<ul style="list-style-type: none"> <li>• ELEC2217</li> </ul>
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"> <li>1. Compare and identify the functions of fire alarms and fire suppression systems, different types of signaling and how devices are triggered.</li> <li>2. Identify and describe the wiring, signaling modes, initiating devices and their operation.</li> <li>3. Compare the different types of security systems, types of protection and supervision, and the behaviors and arming options of each.</li> <li>4. Describe control panel operation, selection and operation of sensing, notification and interface devices.</li> <li>5. Describe how to integrate security systems with other building systems for additional public safety.</li> <li>6. Describe access control systems, common features, and different types of credential and barrier devices.</li> <li>7. Identify common strategies for integrating access control systems with other building systems for additional public safety.</li> <li>8. Describe different types of video-data-voice systems and their integration with other building systems.</li> <li>9. Compare features, advantages and control applications for digital video-data-voice systems.</li> <li>10. Identify ways in which controls for different building systems interact in an integrated building automation system.</li> <li>11. Evaluate the possibilities for green buildings, alternative energy savings and life safety systems integrated into common commercial buildings, homes and industries.</li> </ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.