

# ARE 477 : Smart Buildings

This course explores how a building's operational efficiency as well as occupants' productivity and safety can be improved through the use of advanced and smart technologies. Students will be introduced to principles of smart systems and green building systems, in addition to how these principles integrate and interact. Students will also learn the possibility and feasibility of utilizing the Internet of Things (IoT), especially in evaluating and transforming existing buildings into sustainable ones. Finally, students will work on a technical, hands-on projects where IoT and other technologies are used in monitoring and managing a building's sustainability variables.

**Credits** 3

**Lab Hours** 0

**Lecture Hours** 3

**Tutoring Hours** 0

**Prerequisite Courses**

ARE 341

**Corequisites**

none