**Course Number:** CENG 5435/ CENG 5435G

**Pre-requisite:** Approval of the Instructor

**Course Description**

This course presents a thorough introduction to terrestrial light detection and ranging (LiDAR) or laser scanning and its multiple applications. It includes the use of selected state-of-the-art, ground-based, instruments and their corresponding data collection and processing software packages to generate 3D point-cloud models.

*(CENG 5435G)*  *Graduate version requires a research component*

**Credit Hours:** 3  
**Lecture Hours:** 2  
**Lab Hours:** 2  
**Instructor:** Dr. Gustavo Maldonado  
**Class Schedule:** TBA