Course Title: CENG 5438/ CENG 5438G

Pre-requisites: A minimum grade of "C" in CENG 5431 and CENG 5434 or departmental consent.

Course Description
This course prepares the student for professional practice as a Land Surveyor and includes subdivision design, site layout including associated drainage and sewer design, application of zoning and land use regulations, professional ethics, associated business practices, platting and CAD/computer methods.

(CENG 5438G) Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Topics Covered
- Land Development Overview
- Review of typical planning & zoning, subdivision and development regulations
- Review of Route Geometry as applied in subdivision design
- Review of Earthwork Calculations as applied in subdivision design
- Review of Storm Drainage as applied in subdivision design
- Review of Sanitary Sewer design
- Review of water supply layout and design
- Erosion and Sediment Control
- Development of Construction Plans for subdivision design
- Subdivision Plans: Review and Approval process

Credit Hours: 3 hrs
Contact Hours/ Lecture/ Lab: 3 hrs./Lecture-Asynchronous

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Effective Semester: Fall 2019