CET 265 Subdivision Design and Drainage Control

Course Description: A course on applying land surveying and civil engineering design principles to land development projects. Topics include: subdivision regulations, zoning regulations, lot layout, street layout, utility design, drainage, and site grading. Students create a set of subdivision drawings to meet local standards.

Prerequisites(s): CET 255 **Corequisite(s):** None

Lecture Hours: 3	Lab Hours: 3	Credit Hours: 4
Lab Fee: $105	Supplemental Fee: $0	Purpose:
☐ Transfer Assurance Guide Course (TAG)	☐ Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: □ Web	□ Hybrid	☒ Classroom
Semesters Offered: □ Fall	□ Spring	☒ Summer

Course Primary Text:

Title: The Practical Manual of Land Development	Edition: 4th
Author(s): Barbara Colley	
Publisher: McGraw-Hill Professional	
Title: Introduction to Hydraulics and Hydrology with Applications for Stormwater Management	Edition: 4th
Author(s): John E. Gribben	
Publisher: Cengage Learning	

Supplemental Materials:

None

Course Outcomes:

1	ABET (A), Assessed: - an ability to apply knowledge, techniques, skills and modern tools of the discipline to narrowly defined engineering technology activities.
2	ABET (B), Assessed: - an ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge.
3	ABET (D), Assessed: - an ability to function effectively as a member of a technical team.
4	ABET (E), Assessed: - an ability to identify, analyze, and solve narrowly defined engineering technology problems.
5	ABET (F), Assessed - an ability to apply written, oral, and graphical communication in both technical and non-technical environments.

6	ABET (H), Assessed: - an understanding of and a commitment to address professional and ethical responsibilities, including a respect for diversity.
7	ABET (I), Assessed: - a commitment to quality, timeliness, and continuous improvement.

Course Topics:

Week 1	Introduction, Blackboard web links, State laws, platting standards
Week 2	Subdivision Regulations. Start minor subdivision and panhandle lots
Week 3	Minor Subdivision and legal description project
Week 4	Minor Subdivision and legal description project, midterm exam
Week 5	Major subdivision regulations
Week 6	Grading, sediment erosion control, NPDES, SWP3, Streams
Week 7	Sanitary Sewer regulations
Week 8	Storm sewer design and detention pond design
Week 9	Storm sewer design and detention pond design
Week 10	Water Main extension plans
Week 11	Profiles
Week 12	Record plat standards
Week 13	Major subdivision project
Week 14	Major subdivision project
Week 15	Major subdivision project

Methods of Evaluation/Assessment

Tests – 20%
Projects – 75%
Attendance – 5%

Course Keeper: Carol L. Morman, PE, PS

Date Completed: September 13, 2013
Updated: September 16, 2016
Updated: March 15, 2019