### CE 365K HYDRAULIC ENGINEERING DESIGN

### Spring 2014

### SYLLABUS

**UNIQUE NUMBER**: 16035

**INSTRUCTOR**: David R. Maidment

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**OFFICE HOURS**:  Tuesday and Thursday 2-3:30PM, ECJ 8.610

**LECTURES**: Tuesday and Thursday, 12:30-2PM, ECJ 7.208

**OBJECTIVES**: This course is designed to present these Academic/Learning Goals

1. Principles and methods of Hydraulic Engineering Design
2. Assessment of hydraulic engineering infrastructure
3. Applications of Hydraulic Engineering Design

**PREREQUISITES**: Elements of Hydraulic Engineering: CE 356

**COMPUTER**: Proficiency with computers and familiarity with Excel is expected. There will be some computer assignments using HEC and Bentley computer programs, and the ArcGIS Geographic Information System to be completed in the LRC. A GIS dataset called the “Digital Campus”, which describes the UT Austin Campus, has been constructed and will be used as a basis of class assignments and the semester design project.

**TEXT**: There is no required text for this course but the text “Stormwater Conveyance Modeling and Design” by Haested Methods and Rocky Durrans, published by Bentley Institute Press will be used as a reference.

**CLASS FORMAT**: Lectures supplemented with outside reading, homework, and two in-class exams. There will be a major design project carried out within a project team for which an oral and written report will be presented at the end of the semester. There will be no Final Exam.

**CLASS OUTLINE**: See attached.

**GRADING**: Quizzes, 2 @ 25% = 50%

Homework  = 25%

Design Report = 25%

I will assign grades using the scale:

A = 95 – 100%; A- = 90 – 94%;

B+ = 87 – 89%; B = 83 – 86%; B- = 80 – 82%;

C+ = 77 – 79%; C = 73 – 76%; C- = 70 – 72%;

D = 60 – 69%; F < 60%

Any problems, personal or otherwise, affecting grades should be brought to the instructor's attention.

**HOMEWORK POLICY**: Homework assignments are due in by 5PM on the day assigned. There is a box outside my door in ECJ 8.610 for turning in assignments after the class hour, if necessary. Homework must be done on clean paper, stapled in the top left corner, have your name in the top right corner.

**EXAMINATIONS**: There will be two 75 minute in-class examinations. Each examination will be closed book, although you will be allowed a 1-page review sheet. Missed examinations may be made up only if the reason for missing was illness or some other emergency. The in-class exams will take place on Tuesday March 4 and Thursday April 17.

**EVALUATION**: An evaluation of the course and instructor will be conducted at the end of the semester using the approved UT Course/Instructor evaluation forms.

**DROP POLICY:** From the 1st through the 12th class day, an undergraduate student can drop a course via the web and receive a refund, if eligible.   From the 13th through the university’s academic drop deadline, a student may Q drop a course with approval from the Dean, and departmental advisor.  After the academic drop deadline has passed, a student may drop a course only with Dean’s approval, and only for urgent, substantiated, non-academic reasons.

**DISHONESTY**: University procedures will be followed in dealing with cases of suspected scholastic dishonesty.

**ATTENDANCE**: Regular class attendance is expected in accordance with The University's General Information catalog and the School of Engineering policy (see the section on Attendance in the Undergraduate Catalog).

**IMPORTANT NOTE:** The University of Texas at Austin provides upon request appropriate academic adjustments for qualified students with disabilities. For more information, see the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259, 471-6259 (voice) or 232-2937 (video phone) or email [ssd@austin.utexas.edu](mailto:ssd@austin.utexas.edu) or the web site: <http://www.utexas.edu/diversity/ddce/ssd/>