DFTG 1470 Drafting for Stormwater Management Semester and Year

Synonym: XXXXX
Section Number: XXX
Class Hours: XXXX
Instructor: XXXX XXXX
Phone: XXX XXX XXXX

Email: XXXX Office: XXXX

Office Hours: XXXX

Please contact me if you wish to meet with me outside of regular office hours or to report an excused absence.

COURSE RATIONALE

Introduce students to accepted principles of surface drainage engineering and computer-aided drafting methods and best practices used in the preparation of storm water management drawings. Provide students with necessary skill sets suitable for entry level employment as a Civil CAD technician.

COURSE DESCRIPTION

This is an advanced level course that builds on the concepts and principles learned in earlier civil drafting courses, with emphasis on hydrology and hydraulics as they relate to storm water analysis, management and design. Students will implement local jurisdiction design criteria in the creation of construction drawings for storm drainage systems, while utilizing industry standard CAD software.

PREREQUISITES

DFTG 2430 Civil Drafting

REQUIRED TEXTS/MATERIALS

Textbook: DFTG 1470 Student Guide, AutoCAD Civil 3D 2016 Essentials

Materials: Engineer's Scale, Pencil & Eraser, Personal Headphones (for viewing video tutorials),

Yellow Highlighter, 3 ring binder, Notebook paper

ACC EMAIL

All College e-mail communication to students will be sent solely to the student's ACCmail account, with the expectation that such communications will be read in a timely fashion. ACC will send important information and will notify you of any college related emergencies using this account. Students should expect to receive email communication from their instructor using this account unless other arrangements have been made. Likewise, it is suggested that students use their ACCmail account when communicating with instructors and staff. Instructions for activating an ACCmail account can be found at http://www.austincc.edu/accmail/index.php.

BLACKBOARD (Bb)

Blackboard will be used for some portion of this course to include but not limited to:

Distribution of handouts and readings

- Submissions of assignments and activities
- Grading

As instructed by your professor, students may be required to access instructional materials via Blackboard.

STUDENT LEARNING OUTCOMES

Course-Level Student Learning Outcomes

Upon successful completion of the course, students will be able to:

- Define the elements of drafting that pertain to specific or various occupational fields; produce working drawings and sketches relevant to an individual technical discipline. (source WECM manual end-of-course outcome).
- Define terminology and criteria related to stormwater analysis, management and design.
- Prepare Surface Analysis & Soils Maps.
- Develop Drainage Area Maps.
- Perform stormwater hydrology calculations
- Develop construction documents specifying hydraulic conveyance
- Create technical drawings of ditch cross-sections
- Create stormwater plan and profile construction documents
- Create construction drawings of stormwater management facilities (ponds)
- Implement control structures in construction drawings.
- Specify Pond Details and Standard Details
- Perform stormwater hydraulic calculations

PROGRAM-LEVEL STUDENT LEARNING OUTCOMES

- **C1.** Utilize CAD drafting & design software to plan and prepare construction documents, technical graphics and visualizations appropriate to the civil infrastructure industry.
- **C2.** Demonstrate knowledge of civil drafting and design procedures; familiarity with design criteria, and their appropriate uses in civil infrastructure projects.
- C3. Perform analyses and calculations suitable for civil infrastructure drafting & design processes
- **I1.** Utilize CAD software to plan and prepare documents and technical graphics appropriate to a range of design, manufacturing, and construction industries.

SCANS COMPETENCIES

ARCHITECTURAL & ENGINEERING CAD SCANS FIVE COMPETENCIES

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ARCHITECTURAL & ENGINEERING CAD SCANS COMPETENCIES FOUNDATION SKILLS

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^{* =} Capstone

COURSE EVALUATION/GRADING SCHEME

Drawing assignments will be graded based on:

- Completeness
- Accuracy
- Appropriate use of tools and techniques
- CAD standards & aesthetics
- Meets or exceeds design criteria (if applicable)
- Submitted on time (date set by instructor)

Grades will be determined as follows:

- 20% Exams (averaged)
- 30% Lab Drawings (averaged)
- 50% Construction Drawings (averaged)

The grade range for completed assignments is as listed:

- 90 to 100 = A
- 80 to 89 = B
- 70 to 79 = C
- 60 to 69 = D
- Below 60 = F
- A final grade of D or lower requires that the student retake the entire course.

*The final course average will be reduced by 1 point for each unexcused absence. A student is considered absent if more than 30 minutes of class is missed, unless all assigned work has been submitted. Attendance is required during lectures. A student is considered late if arrival to class is 10 minutes after official start time. Three late arrivals equal one absence. Drawing assignments turned in late may receive a penalty of 10 points for each week it is late.

INSTRUCTIONAL METHODOLOGY

This course is taught in the classroom in a lecture/laboratory format. The lecture will generally introduce concepts and skills, which will then be developed and applied in the laboratory.

OPEN LABS

Hours for the open lab will coincide with the tutoring schedule which will be posted during the first week or two of the semester. You might not be able to complete all the assignments in class, so the open lab & tutoring help is one of your best opportunities to get help in finishing the lab exercises & assignments.

COURSE OUTLINE/CALENDAR

(Note: Schedule subject to changes deemed appropriate by the instructor)

WEEK - 1	
Class 1	Course overview & Introduction of course syllabus and logins
	UNIT 1 - Intro to Stormwater Management I
	LAB 1 – SURFACE ANALYSIS (Elevation & Slope Maps)
Class 2	UNIT 1 - Intro to Stormwater Management II
	ASSIGNMENT 1 – SURFACE ANALYSIS (Elevation & Slope Maps)
WEEK - 2	

Class 3	UNIT 2 – SOILS LAB 2 – SOILS MAP
Class 4	ASSIGNMENT 2 – SOILS MAP
WEEK - 3	
Class 5	UNIT 3 – FEMA LAB 3 – FEMA MAP
Class 6	ASSIGNMENT 3 – FEMA MAP
WEEK - 4	
Class 7	UNIT 4 - Basin Delineation (Existing) & Water Drop LAB 4 –DRAINAGE AREA MAP (EXIST)
Class 8	ASSIGNMENT 4 – DRAINAGE AREA MAP (EXIST)
WEEK - 5	
Class 9	UNIT 5 – STORM SEWER LAYOUT LAB 5 – STORM SEWER LAYOUT
Class 10	ASSIGNMENT 5 – STORM SEWER LAYOUT
WEEK - 6	LINIT C. Desig Deligostica (Deserved)
Class 11	UNIT 6 – Basin Delineation (Proposed) LAB 6 – DRAINAGE AREA MAP (PROP.)
Class 12	ASSIGNMENT 6 – DRAINAGE AREA MAP (PROP.)
WEEK - 7	LINUT 7. D'es Ned est e
Class 13	UNIT 7 – Pipe Networks LAB 7 – STORM SEWER PLAN & PROFILE
Class 14	LAB 7 – STORM SEWER PLAN & PROFILE
WEEK - 8	ACCIONING NET TO COMPANY OF THE PROPERTY OF TH
Class 15	ASSIGNMENT 7 – STORM SEWER PLAN & PROFILE
Class 16	ASSIGNMENT 7 – STORM SEWER PLAN & PROFILE
	SPRING BREAK
WEEK - 9	
Class 17	REVIEW/LAB
Class 18	EXAM I
WEEK - 10	
Class 19	UNIT 8 – Pond Sizing LAB 8 – POND SIZING
Class 20	ASSIGNMENT 8 – POND SIZING
WEEK - 11	AGGIGINIVILINI O I GIND GIZING
Class 20	UNIT 9 – Pond Grading
	LAB 9 – POND SURFACE
Class 21	ASSIGNMENT 9 – POND SURFACE
WEEK - 12	
Class 22	UNIT 10 – Pond Plan & Sections
	LAB 10 - POND PLAN & SECTION VIEWS
Class 23 WEEK – 13	ASSIGNMENT 10 – POND PLAN & SECTION VIEWS

Class 24	UNIT 11 – Open Channel Flow
	LAB 11 – CHANNEL CORRIDOR
Class 25	ASSIGNMENT 11 – CHANNEL CORRIDOR
WEEK - 14	
Class 26	UNIT 12 – Ditch Plan & Profile
	LAB 12 – CHANNEL PLAN & PROF
Class 27	ASSIGNMENT 12 – CHANNEL PLAN & PROF
WEEK - 15	
Class 28	UNIT 13 – Ditch Sections
	LAB 13 – CHANNEL SECTIONS
Class 29	ASSGNMENT 13 – CHANNEL SECTIONS
WEEK - 16	
Class 30	REVIEW/LAB
Class 31	EXAM II

COURSE/DEPARTMENTAL POLICIES

Attendance/Class Participation

Students accruing more than two (2) UNEXCUSED absences may be withdrawn from the course at the instructor's discretion. Students may make-up absences by attending other classes. It is the student's responsibility to inform instructor when circumstances prevent him/her from attending class. An instructor may lower a student's final grade for a course due to excessive absences.

Cell Phones

To avoid disturbing or distracting others during class or open lab times, students are requested to conduct personal communications of any sort outside of the classrooms. For this reason, the use of cell phones and other PDA's by students is prohibited inside A&E CAD classrooms (this includes placing or receiving phone calls, text messages and emails). When conducting personal communication in the hallways, please control the volume of your voice so as not to disturb students in nearby classrooms.

Withdrawal Policy

Course withdrawals may occur at any time after the official reporting date of a semester and up to the established deadline for withdrawals in each semester. The established deadline is listed in the course schedule and on the Web.

It is the responsibility of each student to ensure that his or her name is removed from the roll if he or she decides to withdraw from the class. The instructor does, however, reserve the right to drop a student should he or she feel it is necessary. If a student decides to withdraw, he or she should also verify that the withdrawal is submitted <u>before</u> the Final Withdrawal Date. The student is also strongly encouraged to retain their copy of the withdrawal form for their records.

Initiation of Withdrawals:

Withdrawals from a course result in a grade of "W" and may be affected through action taken by either the student, the course instructor, or the instructor's immediate supervisor in the instructor's absence. Students who wish to withdraw from specific courses should initiate withdrawal procedures with the Campus Admissions and Records Office prior to the published deadline for withdrawals.

Students who are not withdrawn as of the established deadline will receive a performance grade (A, B, C, D, or F). Students must present a picture I.D. to withdraw from the course.

Students who enroll for the third or subsequent time in a course taken since Fall, 2002, may be charged a higher tuition rate, for that course.

State law permits students to withdraw from no more than six courses during their entire undergraduate career at Texas public colleges or universities. With certain exceptions, all course withdrawals automatically count towards this limit. Details regarding this policy can be found in the ACC college catalog.

Incompletes

The grade of "I" (for Incomplete) may be given by an instructor for a course in which a student was unable to complete all of the objectives for the passing grade. A grade of "I" cannot be carried beyond the established date in the following semester or session. The completion date is determined by the instructor, but may not be later than two weeks prior to the end of the semester. The Department Chair will approve a change from "I" to a performance grade (A, B, C, D, F) for the course prior to or at the deadline. Consideration should be given to course load and job and family obligations when carrying an "I" grade into a new semester for completion. Grades of "I" that are not resolved by the deadline will automatically be converted to a grade of "F." In extreme cases, permission may be granted to carry an "I" grade for longer than the following semester or session deadline; this must have the approval of the Dean.

Statement on Scholastic Dishonesty

Academic work submitted by students shall be the result of their own thought, research or self-expression. For purposes of this rule, academic work is defined as, but not limited to tests and quizzes, whether taken electronically or on paper; projects, either individual or group; papers; classroom presentations; and homework.

Reproduction or transmission of A&E CAD Departmental Check Prints in any manner (including photography and scanning) is a violation of the A&E CAD department's Scholastic Dishonesty policy.

Sharing a drawing file of a class project with another student, or representing the file of another student as your own work, is a violation of the department's Scholastic Dishonesty policy.

When students borrow ideas, wording or organization from another source, they shall reference that information in an appropriate manner. Representing the work of another person as your own work is considered scholastic dishonesty by the A&E CAD department. Students accused of scholastic dishonesty will be subject to the procedures outlined in the Policies and Procedures for Academic Dishonesty section of the ACC Student Handbook.

Student Rights and Responsibilities

Students at the college have the rights accorded by the U.S. Constitution to freedom of speech, peaceful assembly, petition, and association. These rights carry with them the responsibility to accord the same rights to others in the college community and not to interfere with or disrupt the educational process. Opportunity for students to examine and question pertinent data and assumptions of a given discipline, guided by the evidence of scholarly research, is appropriate in a learning environment.

This concept is accompanied by an equally demanding concept of responsibility on the part of the student. As willing partners in learning, students must comply with college rules and procedures.

Statement on Students with Disabilities

Each ACC campus offers support services for students with documented disabilities. Students with disabilities who need classroom, academic or other accommodations must request them through the Office for Students with Disabilities (OSD). Students are encouraged to request accommodations when they register for courses or at least three weeks before the start of the semester, otherwise the provision of accommodations may be delayed.

Students who have received approval for accommodations from OSD for this course must provide the instructor with the 'Notice of Approved Accommodations' from OSD before accommodations will be provided. Arrangements for academic accommodations can only be made after the instructor receives the 'Notice of Approved Accommodations' from the student.

Students with approved accommodations are encouraged to submit the 'Notice of Approved Accommodations' to the instructor at the beginning of the semester because a reasonable amount of time may be needed to prepare and arrange for the accommodations.

Additional information about the Office for Students with Disabilities is available at http://www.austincc.edu/support/osd/

Safety Statement

Austin Community College is committed to providing a safe and healthy environment for study and work. You are expected to learn and comply with ACC environmental, health and safety procedures and agree to follow ACC safety policies. Additional information on these can be found at http://www.austincc.edu/ehs. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the Emergency Procedures poster and Campus Safety Plan map in each classroom. Additional information about emergency procedures and how to sign up for ACC Emergency Alerts to be notified in the event of a serious emergency can be found at http://www.austincc.edu/emergency/.

Please note, you are expected to conduct yourself professionally with respect and courtesy to all. Anyone who thoughtlessly or intentionally jeopardizes the health or safety of another individual will be dismissed from the day's activity, may be withdrawn from the class, and/or barred from attending future activities.

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Use of ACC email

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when communicating with instructors and staff. Instructions for activating an ACCmail account can be found at http://www.austincc.edu/accmail/index.php.

Blackboard (Bb)

Blackboard will be used for some portion of this course to include but not limited to:

- Distribution of handouts and readings
- Submissions of assignments and activities
- Grading

As instructed by your professor, students may be required to access instructional materials via Blackboard.

Students and Instructional Services

ACC strives to provide exemplary support to its students and offers a broad variety of opportunities and services. Information on these services and support systems is available at: http://www.austincc.edu/s4/

Links to many student services and other information can be found at: http://www.austincc.edu/current/

For help setting up your ACCeID, ACC Gmail, or ACC Blackboard, contact ACC Helpdesk at helpdesk.austincc.edu or 223-HELP.

Freedom of Expression:

Each student is strongly encouraged to participate in class. In any classroom situation that includes discussion and critical thinking, there are bound to be many differing viewpoints. These differences enhance the learning experience and create an atmosphere where students and instructors alike will be encouraged to think and learn. On sensitive and volatile topics, students may sometimes disagree not only with each other but also with the instructor. It is expected that faculty and students will respect the views of others when expressed in classroom discussions.

All discussion or conversation in the classroom should be appropriate and respectful of others.

Ownership of Student Work

The Architectural & Engineering Computer Aided Design (A&E CAD) Department reserves the right to retain any and all student work (including but not limited to: original work, scans, photographs, and copies of student work) completed as A&E CAD course work for the purposes of documentation, accreditation, evidence of student performance, university transfer, marketing or any other purpose supporting the mission of the Department and Austin Community College.

Concealed Handgun Policy

The Austin Community College District concealed handgun policy ensures compliance with Section 411.2031 of the Texas Government Code (also known as the <u>Campus Carry Law</u>), while maintaining ACC's commitment to provide a safe environment for its students, faculty, staff, and visitors.

Beginning August 1, 2017, individuals who are licensed to carry (LTC) may do so on campus premises except in locations and at activities prohibited by state or federal law, or the college's concealed handgun policy.

It is the responsibility of license holders to conceal their handguns at all times. Persons who see a handgun on campus are asked to contact the ACC Police Department by dialing 222 from a campus phone or 512-223-7999.