

# El Paso Community College

## Syllabus

### Part II

## Official Course Description

<b>SUBJECT AREA</b>	<u>Computer-Aided Design</u>
<b>COURSE RUBRIC AND NUMBER</b>	<u>DFTG 2330</u>
<b>COURSE TITLE</b>	<u>Civil Drafting</u>
<b>COURSE CREDIT HOURS</b>	<u>3                      2                      :</u> <u>4</u>
	Credits                      Lec                      Lab

### I. Catalog Description

Provides an in-depth study of drafting methods and principles used in civil engineering. **Prerequisite: DFTG 1309. (2:4). Lab fee.**

### II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

#### A. Unit I. Grading Plan

1. Generate industry standard grading plans.
2. Create existing ground surfaces from survey data.
3. Produce a finished ground grading design surface of a site within minimum and maximum design constraints.
4. Draw a fully dimensioned and labeled grading plan with earthwork calculations.

#### B. Unit II. Drainage Plan

1. Generate industry standard drainage plans.
2. Determine correct watershed boundaries and storm drainage intensity duration.
3. Compose drainage calculations based on storm frequency.

#### C. Unit III. Section Views

1. Generate industry standard civil engineering sectional views.
2. Determine and use surface data information for existing and finished ground sections.
3. Create sectional views of site development and subdivision grading plans.

#### D. Unit IV. Plan and Profiles

1. Generate industry standard plan and profiles.
2. Interpret and create different types of plan and profiles for roadways, storm sewers, etc.

#### E. Unit V. Construction Details

1. Generate industry standard construction details.
2. Differentiate the types of details required for construction.
3. Create details with proper notes, dimensions and annotations.

#### F. Unit VI. Storm Water Pollution Prevention Plans

1. Generate industry standard pollution prevention plans.
2. Analyze the purpose of the pollution prevention plan.
3. Determine the correct layout of the pollution prevention measures used on construction sites.

### III. THECB Learning Outcomes (WECM)

1. Interpret field notes; develop documents for a civil project; analyze and layout drainage and utilities infrastructure; and perform related calculations.
2. Develop a full set of design documents for construction with proper notes, details, scales, annotations, dimensions, etc. as per current industry standards.

### IV. Evaluation

#### A. Challenge Exams

There is a challenge exam available for this course. Coordination for any challenge exam should be made through the Computer-Aided Design Coordinator.

#### B. Post-assessment

1. The instructor will maintain a continuous record of each student's progress on an institutionally approved grade sheet or computerized substitute. All instructors must keep records in such a way that information would be clear to a second party having to check grade computation in special cases. An explanatory legend should be provided on the grade sheet.
2. Students should be evaluated periodically throughout the semester.
3. It is recommended that six graded drawings assignments be administered. However, the instructor will be responsible for determining the actual number and complexity of the graded drawing assignments.
4. Instructors are required to administer a minimum of four evaluations. They can be in the form of the instructors choosing such as, quizzes, practical/written drawing exams, or formal exams.
5. Instructor will determine the weight of each graded assignment and exam.

#### C. Remediation

Make-up exams will only be given upon the student-initiated request and at the discretion of the instructor. Make-up work and tests must be arranged with the instructor immediately after an absence.

#### D. Grading Scale

- A. = 92.5 – 100
- B. = 85.0 - 92.4
- C. = 75.0 - 84.9
- D. = 65.0 – 74.9
- F. = below 65
- I. = Incomplete
- W. = Withdrew or Withdrawn

#### E. Grading Percentages

For grade percentages of individual assignments and exams refer to the Syllabus-Instructor's Course Requirements.

### V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

### VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

## **VII. Title IX and Sex Discrimination**

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.