CENTRAL TEXAS COLLEGE
DEPARTMENT OF DRAFTING AND DESIGN
SYLLABUS FOR DFTG 1417
ARCHITECTURAL DRAFTING-RESIDENTIAL

I. INTRODUCTION

Architectural working drawings preceded all other types of technical drawings by many years and continue to play an important role in activities of today. Various related fields of construction provide positions and work for over three million American. Drawings needed to support this industry are very extensive and have become the "windows" through which we see ideas that may well have otherwise remained in the mind of the designer. The architectural drafter creates those windows in such areas as residences, office buildings, churches, recreational facilities, and manufacturing structures.

Architectural drafting is an advanced course designed to provide an appreciation in this field through studies in preparation of residential working drawings that include: Fundamentals of architectural drafting, principles of design, basic elements of working drawings, mechanical elements and electrical systems.

II. OVERALL OR GENERAL OBJECTIVES OF THE COURSE

Upon successful completion of this course, Architectural Drafting, the student will be able to:

A. Identify architectural styles as developed through history.

B. Use residential design theory and construction methods in preparing working drawings.

C. Incorporate energy conservation into working drawings of electrical and mechanical systems.

D. Work with the financial aspects of construction, including those concerned with specifications.

E. Discuss the application of the above as applies to commercial design and construction.
III. INSTRUCTIONAL MATERIALS

A. Text:
The instructional materials identified for this course are viewable through www.ctcd.edu/books

B. References:

C. Materials:
1. A flash drive, recommended at least a 512MB
2. Notebook (comp book 5x5 quad 43.475)

IV. COURSE REQUIREMENTS

Students are encouraged to work quickly and efficiently. Their grades will depend upon their speed and skill as well as their knowledge of drafting techniques. Students should remember that requirements for a passing grade includes keeping up-to-date on all assignments. (See section VI for assignment grading)

All outside reading assignments must be read before discussion dates. Textbook, notebook and disk should be brought to each class meeting.

EXAMINATIONS

A. Examinations may generally consist of a combination of objective questions and drawing problems. The drawing portions shall be graded for accuracy, neatness, and speed.

B. Unannounced short quizzes shall be given at the discretion of the instructor. There are no make-up for unannounced quizzes. Students with an excused absence shall review the grading computation with the instructor.

C. Make-up examinations shall be given only to those students having an excused college absence. Excusable absences are those resulting from personal illness, emergencies arising within the family, official school sponsored trips, and military duties or orders requiring brief absences. The student must notify the instructor prior to the absence.
D. At the option of the instructor, any missed exams shall be: made-up at a time convenient to the instructor; or the following exam shall count additionally for the missed exam.

E. At no time shall a student use a cell phone or other personal communication or music device during a test, quiz, or any other evaluation type process. Any of these devices should be turned off during the time of the test or quiz and should not be accessed until the student has completed the evaluation and has left the classroom. Violation of this policy shall result in the student receiving a failing grade for the course.

VI. SEMESTER GRADE COMPUTATION

Grades shall be computed on a total point basis as follows:

- Written Assignments: 300 points
- Working Drawings: 250 points
- Tests: 3 at 100 points each: 300 points
- Attendance: 50 points
- Total points possible: 900 points

The point breakdown for grades shall be as follows:

- A = 810 to 900 points
- B = 720 to 809 points
- C = 630 to 719 points
- D = 540 to 629 points
- F = 539 points or less

Students are advised to keep an accurate record of their assignments and test scores. By keeping track of the total points the student can calculate their grades as a percentage of their possible points at any time.

The drawing problems assigned will be graded on five major points: Speed, View placement, Accuracy, Line Type, and Text. In most cases, a number grade will be assigned to the drawing based on a one to ten range in .5 increments (one being the lowest and ten the highest).

Attendance points shall be deducted at a rate of 10 points per each unexcused absence after the first absence (excused or unexcused).

Unless otherwise instructed, all assignments shall be the individual work of the student. Although collaboration and assistance by other students is encouraged, the creation and production of the work must be that of the individual student.
The electronic (or otherwise) sharing of assignments is to be considered collusion and shall result in disciplinary action.

All assignments are due per the course outline. Assignments are due at the beginning of class. Late assignments may be accepted at the instructor’s option. Late assignments will be penalized 1 point for every 24 hours the assignment is late.

VII. NOTES AND ADDITIONAL INSTRUCTIONS FROM COURSE INSTRUCTOR

ATTENDANCE POLICY

Tardiness

For Face-to-face and blended courses, students are required to be in classrooms on time. Instructors may choose to lower a student's grade because of tardiness. Each three tardies may result in one absence. Excessive tardiness, since it is disruptive to the educational process, may result in disciplinary action. Due process and the right to appeal will be provided to students subjected to disciplinary action. Details can be found in the Student Handbook which is available at the Office of Student Services.

Class Attendance

Because absences for any reason negatively affect the learning process, the individual student, and the class, students are expected to attend all classes in which they are enrolled. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is expected, and the College reserves the right to deal at any time with individual cases of nonattendance.

A. The effect of absences on grades is determined by the instructor.

B. When absence from class is necessary for any reason, the student has the responsibility to arrange to make up assignments missed during the absence.

C. The decision to allow a student to make up work following any absence rests solely with the instructor.

D. The student who desires to be absent from classes for the observance of a religious holy day should submit a request to each instructor by the 15th calendar day after the first day of the semester. Although the student will be excused from classes, he/she will be responsible for make-up of all work or tests missed. A "religious holy day" means a holy day observed by a religion whose place of worship is exempt from property taxation under Section 11.20, Tax Code.
**Excessive Absences**

Absences from classes for any reason may be reflected in the student’s performance in the course. The specific course objectives will be reviewed at the initial class meeting and may be different for different courses in the college or even within a department or program. The following shall apply to this course:

A. Students who have not attended class by the 12th class day will be dropped from the course by the instructor or the college.

B. Students who chose to withdraw from a course after the 12th day of class should do so before the deadline to withdraw. An instructor will be unable to drop any student from a course after the 12th day of class.

C. Any financial impacts of withdrawing from a course rests solely with the student. The student should check with the appropriate financial office or program to determine the impact of withdrawing from a course prior to withdrawing from any course.

The following specific rules apply to absences:

A. Instructors are required to keep attendance records.

B. Each faculty member will inform students of the attendance policy of the course at the initial class meeting.

C. Students are responsible for understanding the attendance policy for each course in which they enrolled and for meeting the attendance requirements.

D. Failure to meet the attendance requirements in a course may; impact the student’s performance in the course; may lower the grade for the semester; or may result in failure in the course.

E. Only the instructor can authorize an absence. Regardless of the reason for the absence, students are responsible for completing all course work covered during any absence. The decision to allow a student to make up work following any absence rests solely with the instructor.
**Official Withdrawal Policy**

It is the student's responsibility to officially drop a class if circumstances prevent attendance. Any student who desires to, or must, officially withdraw from a course after the first scheduled class meeting must file an Application for Withdrawal or an Application for Refund at the Records Office.

A. The withdrawal form must be signed by the student.

B. Application for Withdrawal will be accepted at any time prior to the deadline listed in the schedule bulletin for the semester.

C. Students using Financial Aid, Military Tuition Assistance, VA benefits or other than personal funds may be required to repay tuition and fees to the funding agency. For specific repayment requirements, students are referred to the Student Financial Aid Office, or the Veterans Services Office.

D. Other requirements may be required for course withdrawal. Refer to the Semester Schedule Bulletin, the College Catalogue, and the Student Handbook.

**Disability Support Services**

Disability Support Services provides services to students who have appropriate documentation of a disability. Students requiring accommodations for class are responsible for contacting the Office of Disability Support Services (DSS) located on the central campus. This service is available to all students, regardless of location. Review the website at [www.ctcd.edu/disability-support](http://www.ctcd.edu/disability-support) for further information. Reasonable accommodations will be given in accordance with the federal and state laws through the DSS office.

**Civility**

Individuals are expected to be cognizant of what a constructive educational experience is and be mindful of that at all times. The learning environment should be treated as a workplace simulation and should be approached with respect and in a respectful manner to others participating in this environment. Proper etiquette and respect for others should always be displayed. Failure to do so can result in disciplinary action up to and including expulsion.
Office Hours

The instructor maintains regular posted office hours and should be available during these times but prior appointments and other students and/or meetings may limit availability during these posted times. Students are advised to make an appointment with the instructor or office staff to ensure meeting time and availability.

VIII. COURSE OUTLINE

A course outline and assignment sheet will be provided to each student as a supplement to this syllabus, prepared so as to reflect the most current date and state-of-the-art drafting assignments for the respective semester. As will be seen below, that outline divides the course into five units of studies, with information grouped according to the title of the respective unit.

Student activities through each unit will be essentially the same. Reading assignments are to be prepared prior to the scheduled class in order to better facilitate discussions and greater enhance understanding.

A. Unit One: Fundamentals of Architectural Drafting

1. Unit Objectives: Upon successful completion of this unit, the student will be able to:

   A. Identify architectural styles past and present for purposes of design.
   B. Apply basic design principles for planning interiors as well as exteriors of residences
   C. Incorporate into working drawings proper methods of house construction

B. Unit Two: Electrical and Mechanical Systems

1. Unit Objectives: Upon successful completion of this unit, the student will be able to:

   A. Recognize wiring characteristics and services requirements with respect to working drawings
   B. Incorporate plumbing requirements on working drawings
   C. Apply design practices for energy conservation
   D. Make basic determinations to meet heating and cooling requirements

C. Unit Three: Finance and Presentations

1. Unit Objectives: Upon successful completion of this unit, the student will be able to:
A. Explain the various aspects of getting a house constructed based on plans and specifications
B. Prepare basic presentations to illustrate to a client a proposed functional design
C. Use appropriate vocabulary with respect to finance and presentation drawings

D. Unit Four: Application of Commercial Design and Construction
   1. Unit Objectives: Upon successful completion of this unit, the student will be able to:
      A. Placement of drawings on sheets
      B. What composes a set of working drawings for a commercial building
      C. Principals that go into planning various types of commercial facilities
      D. Concerning construction techniques for commercial buildings

E. Unit Five: Preparation of a Set of Working Drawings for a Residence
   1. Unit Objectives: Upon successful completion of this unit, the student will be able to:
      A. Provide student drafters with an opportunity of preparing a complete set of working drawings in conjunction with studies found in the preceding study units, as a major learning activity.