



Architectural Drafting & Design

Course Outline

Supplemental Instructions

Please note the following supplemental instructions concerning the course of study outline.

COURSE SYLLABUS:

The course is divided into four major categories of design and drawing: Architectural Drafting Exercises, Conceptual Design; Design Development, and Construction Document Drawings.

The course web site at:

<http://www.dtcc.edu/~cripps/courses/aet125/>

has a complete detailed explanation of the course syllabus.

Selected pages from the web site outlining the course activities are included in this outline and the initial period course calendar.

The student should refer to the course web site for the full detailed explanations.

In addition to architectural drawing, the student will complete short writing assignments and take examinations.

Online Writing Assignments:

As internet communication skills are becoming the norm in professional practice, the writing assignments of the course will be given as "online" assignments. They will be assigned by being listed in the course calendar, but the "instruction" for the assignments will be completely online. The student will complete these assignments as "homework" by accessing the online instructions, communicating with the instructor via email about the writing assignments, composing the assignment at the computer keyboard, and submitting it via the internet. The first online assignments are in the basic Internet skills required to successfully work as an "online" student.

Electronic Communication:

Instructor Email: cripps@hopi.dtcc.edu

Course Home Page:

<http://www.dtcc.edu/~cripps/courses/aet125/>

Course Intranet Access: User ID: **guest** Password:

QUARTER: 99-1
Fall 1998

INSTRUCTOR:
Linda Cripps

DTCC Office:
Room B236
(302) 454- 3185
(office &
answering
machine)
(302) 658-4215
(eve. &
emergency)

**INSTRUCTOR
EMAIL:**
cripps@hopi.dtcc.edu

**COURSE HOME
PAGE:**
[www.dtcc.edu/
~cripps/courses/
aet125](http://www.dtcc.edu/~cripps/courses/aet125)

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Chairperson,
Robert J. Bradley:**
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INITIAL COURSE PERIOD:

Notes:

The beginning of the course concentrates on fundamental drawing skills and the exploration of the design process. Although the site and program of the residential design problem for the course is the same for all students, each student develops their own design scheme.

Architectural Drafting Exercises

The course commences with basic drafting exercises based on the three orthographic plan types of architectural documentation: plan, elevation and section. These exercises introduce the basics of drafting to those who have no prior experience, and the concepts of architectural line expression and architectural graphic conventions to those who have prior engineering drafting experience.

Conceptual Design Documentation

The student begins their development of a design solution with adjacency single line studies which will evolve into double line drawings. This design study includes orientation of the building on the site. The student has frequent discussions and opportunity for review of their conceptual design schemes.

Design Development Documentation

One of the initial drafting exercises produces a one-story structural drawing of a wall section, which is standard construction for the majority of residential projects. This exercise is used as the foundation for the design development wall section. One preliminary exterior elevation layout is completed to ensure that the fundamentals of accurate elevation drawing are understood by all students. The interior equipment and plumbing requirements are researched to be able to produce an accurate floor plan. In this manner the work on the design development project record is begun.

Online Writing Assignments & Examinations

The student completes introductory exercises in the use of internet technology, one writing assignment, and takes one exam in this period.



DESIGN & DESIGN DEVELOPMENT PERIOD:

Notes:

The second period of the course concentrates on refining the design and developing the solution in accurate drawing representation.

Conceptual Design Documentation

After review of their conceptual design drawings, the student revises their initial schemes and incorporates the ongoing evolution of the design concept into the design development drawing process.

Design Development Documentation

The majority of the work in this period is to finalize decisions about building material and component selections, and to make preliminary layouts of the plans and elevations to scale without line variation or detail. The finish components are added wall section drafting exercise to reflect the student's choices in exterior design for the project. The student who is on an ideal schedule completes the design development project record by the end of this period.

Construction Drawing Documentation

The foundation for the construction document floor plan is begun by making the final iteration of the design development to be a double line drawing layout, accurately to scale, including wall thickness variations.

Online Writing Assignments & Examinations

The student completes one writing assignment, and takes one exam in this period.



CONSTRUCTION DOCUMENTS PERIOD:

Notes:

The course concludes by completing construction drawings for the student's design. The time frame for this period is not sufficient to complete all of the drawings at the skill level of the majority of the students, so only a portion of the drawings that would comprise a complete construction document set are required.

Conceptual Design Documentation

The conceptual design work ideally is complete by this course period.

Design Development Documentation

The final decisions about building material and component selection are made, and the design development project record is completed if not already done so. The final notes and dimensions are added to the wall section drawing if it is not to be produced as a construction drawing.

Construction Drawing Documentation

Every student completes one construction document floor plan and exterior elevation of their design with appropriate references. Depending upon the skill level of the student, additional plans and elevations, or the design development wall section can be completed for extra credit.

Online Writing Assignments

The Program Statement, which summarizes the student's design goals, is submitted in hardcopy format with the final document submissions for the course.

Examinations

In the final period of the course, there are two examinations. Early in the period, the third exam of the course is given. At the end of the semester, a final exam is given which is required only for those students who missed a previous exam, or whose exam average for the three exams is not sufficient for passing the course.



GRADING:

Notes:

The course outline explains the department's grading scale and the course web site also explains the criteria used for evaluating each of the course components. These instructions reiterate some of the major points in the course grading. The student should refer to the course web site for detailed explanations. Should there ever be any questions, please talk to the instructor during class or send her an email message.

Make-Up Examinations:

AET/CET department policy as explained in the course outline is not to give make-up exams. However, I recognize that at times there are emergencies that cannot be anticipated in advance. If an unforeseen emergency arises on the date of a test or some situation is known in advance that will prevent the taking of the exam on the scheduled date, the instructor will consider giving a make-up exam provided the student can fulfill **ALL** of the following conditions.

If the student misses a scheduled examination and **DOES NOT** fulfill **ALL** of the criteria below, the student will be required to take the Final Exam as a "make-up" exam. If **ALL** of the criteria below are met, the student can arrange to take a scheduled exam at a different time than its original calendar date.

1. The student notifies the instructor that the emergency has occurred either in person or by telephone or telephone or email message.
2. This notification takes place within a 24-hour period following the scheduled test. (Example: Test is scheduled for 8:30 a.m. on September 22. Notification must be made by 8:30 a.m. on September 23). This includes exams scheduled for Fridays.
3. The student sets a time for taking the test with the instructor and the test is taken before the beginning of the next class meeting. For exams scheduled on Fridays of Tuesday-Thursday-Friday classes, test must be taken on the following Monday or Tuesday.



GRADING:

Notes:

GRACE PERIOD FOR DRAWING ASSIGNMENTS:

The course outline describes a grace period intended to allow students with less drafting experience adequate time to complete the drawing assignments without undue deadline pressure. Since the majority of the drawing assignments for this course will have considerable time after the last class period devoted to the assignment, for the purposes of this course, the grace period is considered to be the time period that follows the last class meeting allocated to working on the assignment until the last day the assignment can be turned in before the late grade penalties are applied. To remedy confusion about when grade penalty is applied, the course calendar will indicate when grade penalties begin, and the last date an assignment can be turned in for course credit.

ACADEMIC HONESTY:

Students should refer to the DTCC Student Handbook for the college policy on academic honesty. Any drawing assignment or exam which the instructor deems produced through copying, plagiarism, or other forms of academic dishonesty will be dealt with according to the DTCC policy.

EXAMINATIONS:

There will be a total of three exams and a final exam. The student's grade will be based on the best three scores out of the four exams. This means that, if the student is satisfied with his/her exam average on the three regular exams, the student can skip the final exam (for a "zero" grade, which would be their lowest score).

Exam grade averages will strongly influence the decision made for students whose overall course grade is a borderline passing grade.



GRADING:

Notes:

COURSE COMPETENCIES:

DTCC follows “competency based” education, which means to earn course credit all of the course objectives must be met. Every course has defined instructional objectives in the course outline for the student’s guidance. For this course a student must meet the examination and writing objectives to pass the course, regardless of the excellence and quantity of their drawing work. A student will not **receive course credit , even if all design and drawing objectives are met, if:**

- A. If the overall exam average is below 70 per cent
- B. Both writing assignments are completed, and at least one meets the standard of college level writing
- C. The student does not meet any other instructional objective with stated per-cent competencies, regardless of course average. For example, if there is an instructional objective with 100% accuracy competency, by the end of the course the student must have demonstrated 100% accuracy for that objective to receive course credit, regardless of overall grade average.

DRAWING ASSIGNMENT EVALUATION:

There are many types of drawings that will be completed in this course. The criteria used for evaluating these assignments will be appropriate for the assignment, but due to their differences it is difficult to make any general statements that apply to all drawing types. Some common criteria that will be used to evaluate the student’s drawings are graphic appearance (line quality, lettering, drawing layout, architectural expression, etc.) and the technical accuracy (following project requirements, scaling accuracy, dimension accuracy, technical terminology accuracy, etc.). The detailed grading criteria for each assignment type is explained in the course web site; the student should refer to it should they require further clarification.

FINAL GRADE DETERMINATION:



GRADING:

Notes:

FINAL GRADE DETERMINATION:

The instructor will use a worksheet for determining the students final grade, which is reproduced in its entirety at the end of these Instructions. Each individual assignment or exam is assigned a maximum number of points for that part; the students grade for the assignment is multiplied by that number of points. At the end of the course, all of the points are totaled together. As there are many items on the worksheet, a short summary of how the parts of the course are related in the final grade is as follows:

- ARCHITECTURAL DRAFTING EXERCISES:
+/- 10% of Final Grade
- CONCEPTUAL DESIGN PHASE & DOCUMENTATION:
+/- 20% of Final Grade
- DESIGN DEVELOPMENT DOCUMENTATION:
+/- 13% of Final Grade
- CONSTRUCTION DOCUMENT DRAWINGS:
+/- 25% of Final Grade
- THREE HIGHEST EXAM GRADES, AVERAGE:
+/- 25% of Final Grade
- ONLINE WRITING ASSIGNMENTS:
+/- 7% of Final Grade

The instructor will issue a revised final grade determination sheet if there are any adjustments to the course syllabus that will affect the final grade computation.



FINAL GRADE WORKSHEET:

Notes:

STUDENT NAME: _____

Fall 1998 (99-1) Semester

	Letter Grade	Per Cent	Late Penalty	Max. Points	Total Points
ARCHITECTURAL DRAFTING EXERCISES					
– overall portfolio evaluation					
GRAPHIC QUALITY	_____	____%	_____ - ____%	x 50 pts.	= ____pts
TECHNICAL ACCURACY	_____	____%	_____ - ____%	x 50 pts.	= ____pts
DESIGN PHASE					
CONCEPTUAL DESIGN SCHEME	_____	____%	_____ - ____%	x 100 pts.	= ____pts
DESIGN DOCUMENTATION	_____	____%	_____ - ____%	x 100 pts.	= ____pts
DESIGN DEVELOPMENT:					
DESIGN DEVELOPMENT RECORD	_____	____%	_____ - ____%	x 130 pts.	= ____pts
CONSTRUCTION DOCUMENTS					
– overall portfolio evaluation					
GRAPHIC QUALITY	_____	____%	_____ - ____%	x 125 pts.	= ____pts
TECHNICAL ACCURACY	_____	____%	_____ - ____%	x 125 pts.	= ____pts
WRITING ASSIGNMENTS					
OVERALL AVERAGE	_____	____%	_____ - ____%	x 70 pts.	= ____pts
EXAMINATIONS					
OVERALL AVERAGE of THREE BEST SCORES	_____	____%	_____ - ____%	x 250 pts.	= ____pts
TOTAL POINTS:					____pts

EXTRA CREDIT DRAWINGS

(100 points max. total for any individual student)

Site Plan	_____ %	x 10 pt.	= ____pts.
Floor Plan	_____ %	x 20 pt.	= ____pts.
Exterior Elevations	_____ %	x 30 pt.	= ____pts.
Building Section (if addtl)	_____ %	x 30 pt.	= ____pts.
Details	_____ %	x 10 pt.	= ____pts.
TOTAL =		_____pts.	Maximum allowed <= 100 pt. _____pt.

COURSE

TOTAL (1000 points max.) STUDENT SCORE = _____pts.

Final Grades:

- A = 919 points or higher (92% or better)
- B = 829 - 918 points (83% - 91%)
- C = 749 - 828 points (75% - 82%)
- R = 748 points or less (less than 75%)



COURSE SCHEDULE:

Notes:

The requirements for this course vary every semester depending upon the level of skill of the students in the class. The course schedule will be maintained on the course web site in a weekly format and by course period.

The students will be notified in class meetings of overall changes, however it is the student's responsibility to check the course calendar on the web site on a weekly basis to ensure that they are current with the class activities.

Attached to this outline is a copy of the Initial Course Period Calendar.







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