Department of Industrial Technology
IT 3303 | ARCHITECTURAL DRAFTING AND HOME PLANNING | SPRING 2020

Instructor Information

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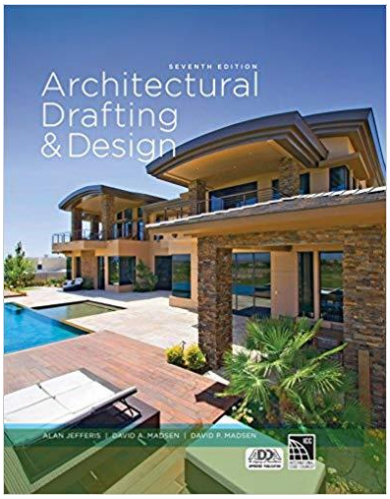
Office Hours: By Appointment

Class Time and Location: Wednesday
10:00 am – 1:00pm
Industrial Technology Building RM 105



Required Textbook:
Architectural Drafting and Design, 7th Edition;
Author(s): Alan Jefferis; David A Madsen, B.S., M.Ed.;
David P. Madsen, B.S., M.S.
Publisher: Cengage Learning; 007 *edition*
ISBN-10: 1-285-16573-X; ISBN-13: 978-1-285-16573-8

Reference:

There will also be additional reading material assigned in the form of handouts that contain industry related information. Students will be responsible for that information on tests and quizzes.

Course Description

This course of study was designed to provide the student with an opportunity to develop an understanding of and acquire knowledge and skill in the area of general residential home design. Emphasis is placed on understanding the principles of good design. Time will be spent discussing information requirements, drafting tools, drawing requirements, and some of the drawing and construction details required in architectural designing and drafting. Students will also study Architectural drafting, with emphasis placed on the principles of good design and planning of the small home. Students will learn to draw architectural details, understand materials and methods of construction, energy conservation practices, use of symbols, lettering, and building standards of the American Institute of architects.

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

- Identify, select, and use drawing instruments correctly and safely for completing necessary architectural drawings.
- Select acceptable paper and layout for each particular object being drawn.
- Identify, describe, and use the different drawing formats and styles necessary to describe a residence: orthographic, isometric, oblique, one and two-point perspective.
- Use sketching as a tool to work out design ideas and problems.
- Select the best drawing format and type of representation for details in a residence design.
- Demonstrate an understanding of how a building will look from sketches and detail drawings by answering various types of questions on tests.
- Sketch a design so it is understandable by others.
- Use an appropriate procedure to design a residential structure accounting for the primary considerations in design such as location, room location and position, traffic flow, and basic construction procedures.
- Complete the necessary drawings required for a residential house plan so the structure can be clearly understood.
- Recognize and describe standardized residential home styles such as colonial, ranch, and saltbox.
- Demonstrate an understanding of residential construction and building techniques through class discussion, sketches and by answering various types of questions on tests.
- Evaluate a residential structure on environmental factors.
- Demonstrate an understanding of standard residential construction practices by completing several construction detail drawings.

This class is to be a learning experience, and one that you want to attend each week. As such the class structure, lesson topics, and overall learning environment will emphasize more than just knowledge comprehension.

Students with Special Needs

Sul Ross State University (SRSU) is committed to equal access in compliance with Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the Student's responsibility to initiate a request. Please contact me, Ms. Rebecca Greathouse Wren, M.Ed., LPC-S, Director/Counselor, Accessibility Services Coordinator, Ferguson Hall (Suite 112) at 432.837.8203; mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas 79832. Students should then contact the instructor as soon as possible to initiate the recommended accommodations.

Attendance

Attendance is necessary! Attendance will be taken each scheduled class period in accordance with University and Departmental Policy and will count as part of the daily work grade. Everyone starts with 280 points at the beginning of the semester for class attendance - each unexcused absence will cost 10 of those points. In accordance with the Student Handbook, after 9 hours of absences the student will be dropped from the course with an 'F'. If a student is tardy and misses the roll call, they will be charged with one absence. It is up to your professors' discretion whether an absence is excused or unexcused.

Class Structure

This course is designed to be a guided study and not just dissemination of information. It will be run on a lecture\discussion\activity format. Lectures will utilize overheads, power points, demonstrations, videos, and visits to the internet. Lectures will be given primarily to enhance and answer questions about the ***material that should have been studied prior to the class period***. There may be some step-by-step guided practice, individual assistance, and demonstrations during the scheduled class time in areas where there seems to be a need. It is essential that everyone be in attendance for the scheduled meetings for sharing information, demonstrations, activities, and so questions are answered.

Time Commitment

Students should be prepared to spend at least 4-6 hours per week outside of class on assignments that will include: Homework, Reading Assignments, Lab work and studying for tests and quizzes.

Phones & Electronic Devices

No electronic devices other than calculators are allowed in the class or lab.

Assignments

All assignments are to be submitted via Blackboard. No late work will be accepted without proper documentation or prior approval by the instructor.

Daily work will consist of reading, worksheet pages, and budgeting exercises. The laboratory exercises and projects will be completed together during the scheduled class time. It's essential that everyone be in attendance for the scheduled class meetings.

Course Communication: The official e-mail communications channel for this course is the Sul Ross State University e-mail account (yourname@sulross.edu) of each student and professor. For the purposes of this course, no other e-mail account is acceptable.

Due dates: All assignments and projects will be given due dates which must be met. All assignments will be due by 11:59 pm on the assigned day. Assignments and projects will not be accepted if they are turned in late without approval. Late assignments will lose ten points per calendar day. Students are responsible for meeting the deadlines even if classes are missed.

Grading: All work will be graded on specific criteria using the following guidelines. Any worksheets will be graded on a points-per-answer basis. Any sketches and drawings assigned will be graded on a 100point (percentage) scale. Criteria for grading will include accuracy of content, appropriateness of content for assignment, presentation, and clarity. Projects in the lab will be graded on accuracy, neatness, content, adherence to standards, adherence to assignment, and workmanship. Graded items will be broken into specific categories and presented on grade sheets given at the time the assignments are given.

Grading Policy

Final grades will be determined by totals in these areas:

- 5% quizzes
- 25% final exam (comprehensive)
- 40% daily work assignments: lab work, site visit, and attendance
- 30% final project (group or individual project)

In the event one of the above categories is not completed during the course that percentage will automatically be divided between the other categories at the same level. All assignment points will be converted to percentages for individual assignment letter grades.

A=100-90;
B=89-80;
C=79-70;
D=69-60;
F=59-0

Grades will be earned on the basis that "C" is average work, "B" is above average work, and "A" is well above average work. Barring unusual circumstances, there will be ***NO INCOMPLETES*** given at the end of this semester.

Academic Honesty

All students are expected to complete their own work at all times. Any dishonest conduct will be promptly rewarded with an immediate "F".

Plagiarism

A student guilty of plagiarism and/or cheating will receive a grade of "F" in the course involved and the grade will be so recorded on the transcript. Students giving and receiving assistance in any unauthorized manner during an examination will subject themselves to this cheating policy. A pattern of cheating will result in suspension.

Lab Time

As with all the Industrial Technology classes there will be a substantial amount of lab work to be done. Normally 6 hours outside of scheduled class time each week for researching, reading, and general homework is expected for college level work. All required research, lab work, and practice will not be able to be completed within the scheduled class time. There may be some release time from class to complete some of the work. Hours for access to the lab will be announced when set.

Supplies

There are some expendable supplies you will need for the class such as pencils (lead), erasers, and paper. These supplies may be provided through the department through a set materials fee based on the average material use by students.

Storage

The lockers in the hallway may be checked out and used for storing your equipment and supplies. These lockers must be signed out with the secretary in the IT main office. You must supply your own lock. Do not leave any of your work or equipment lying around in the lab!

Quizzes

You will not be given advance notice of quizzes. They will be primarily written in nature. There will be no make-up quizzes.

Tests/Exams

All exams will be given on the announced date.

Everything discussed and everything in the assigned reading, including laboratory material, is fair game for tests and quizzes. It is your responsibility to be in attendance the day of scheduled exams. Tests will be either administered through Blackboard or written in nature using various styles of questions covering terminology, equipment, processes, and other items discussed. Attendance for the tests is mandatory; no makeup tests will be given.

Midterm Exam

There will be no midterm exam given.

Final Exam

The final exam will be during the week of December 9-11, 2019. The specific date and time will be announced during the semester. The exam will include written, practical, and analytical portions, and will be comprehensive of the entire semester. Do not make any other plans for that day and time.

Final Project

The culminating project for this class will be a finished residential design. The entire set of plans will be copied to blueprints. The final plans will be graded on the design you develop and the presentation of the plans. This final set will be graded as a whole unit and not as individual drawings. (The individual drawings will be graded as the semester progresses.)

The final set of plans will be graded on the following criteria:

- Design quality
- Support for design
- Accuracy of plans
- Design considerations and room planning
- Continuity of plans
- Completeness of idea(s)
- Quality and correctness of drawings
- Overall neatness