

### Instructors Information

Dr. Eric Busby  
Office: Industrial Technology Building, RM 101  
Phone: 432-837-8137

Email: eric.busby@sulross.edu  
Office Hours: By Appointment

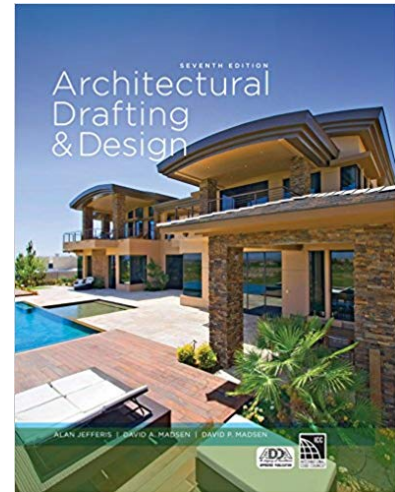
Mrs. Carolyn Barrientes, MFA  
Office: Fine Arts Building, RM 206  
Phone: 432-837-8218

Email: cxb17kq@sulross.edu

**Class Time and Location:** Tuesday & Thursday  
11:00 am – 12:15pm  
Industrial Technology Building RM 111

### 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 design with emphasis 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.

## **Student Learning Outcomes**

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This course is designed to meet one or more of the following Student Learning Outcomes:

1. Students will be able to prepare a basic residential floor plan using proper scale accuracy, dimensioning, notations, and symbols.
2. Students will be able to demonstrate the ability to interpret residential building codes.
3. Students will learn to specify furnishings, fixtures, equipment, and finish materials to achieve the project goals.
4. Students will develop skill and proficiency in the ability to present clearly identified solutions using graphical communication conventions and standards used in industry.

## **Marketable Skills**

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- 1. Students will demonstrate knowledge of project management, project planning, scheduling, and estimating.**
2. Students will demonstrate knowledge of industry safety practices.
3. Students will understand and implement lean philosophies to improve efficiency and eliminate waste.
- 4. Students will demonstrate the ability to communicate information and ideas verbally and in writing so others will understand.**

## **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.
- 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.

### **National Kitchen & Bath Association Membership**

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Students are required to join the National Kitchen & Bath Association as part of this course. The main goals of the student membership are to encourage involvement of students in NKBA Affiliated Schools Programs, to offer students a venue to network with fellow students and professionals, to establish a firm link between Affiliated Schools and their local NKBA Professional chapter, and to introduce students to the benefits of on-going NKBA membership throughout their careers.

The NKBA along with its industry recognized certifications specializes in the design, planning and execution of residential kitchens and bathrooms. Opportunities for leadership development, community service, and competition participation in the areas of kitchen and bath design are woven into the instructional fabric at the state and national levels. Students may select to participate in the NKBA student competitions at regional, state and national levels. The membership is FREE. <https://nkba.org/students/join/>

### **SRSU Disability Services Statement**

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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 each semester for each class. Alpine students seeking accessibility/accommodations services must contact Mary Schwartze Grisham, M.Ed., LPC, SRSU's Accessibility Services Coordinator at 432-837-8203 (please leave a message and we'll get back to you as soon as we can during working hours), or email [mschwartze@sulross.edu](mailto:mschwartze@sulross.edu). Our office is located on the first floor of Ferguson Hall (Suite 112), and our mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas, 79832.

### **Library Information**

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The Bryan Wildenthal Memorial Library in Alpine offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library's website, [library.sulross.edu](http://library.sulross.edu). Off-campus access requires logging in with your LoboID and password. Librarians are a tremendous resource for your coursework and can be reached in person, by email ([srsulibrary@sulross.edu](mailto:srsulibrary@sulross.edu)), or phone (432-837-8123).

The Southwest Texas Junior College (SWTJC) Libraries at Uvalde, Del Rio, and Eagle Pass. Offer additional access to library spaces and resources. Del Rio, Eagle Pass, and Uvalde students may also use online resources available through SWTJC website, [library.swtjc.edu](http://library.swtjc.edu). The SWTJC Libraries serve as pick-up locations for Inter-Library Loan (ILL) and Document Delivery from the Alpine campus.

## Diversity Statement

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"I aim to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, socioeconomic class, age, nationality, etc.). I also understand that the crisis of COVID, economic disparity, and health concerns, or even unexpected life events could impact the conditions necessary for you to succeed. My commitment is to be there for you and help you meet the learning objectives of this course. I do this to demonstrate my commitment to you and to the mission of Sul Ross State University to create an inclusive environment and care for the whole student as part of the Sul Ross Familia. If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you."

## Classroom Climate of Respect

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Importantly, this class will foster free expression, critical investigation, and the open discussion of ideas. This means that all of us must help create and sustain an atmosphere of tolerance, civility, and respect for the viewpoints of others. Similarly, we must all learn how to probe, oppose, and disagree without resorting to tactics of intimidation, harassment, or personal attack. No one is entitled to harass, belittle, or discriminate against another person on the basis of race, religion, ethnicity, age, gender, national origin, or sexual preference. Still, we will not be silenced by the difficulty of fruitfully discussing politically sensitive issues.

## Attendance

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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

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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**

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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**

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

## **Assignments**

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**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**

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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 any unusual circumstances there will be ***NO INCOMPLETES*** given at the end of this semester.

## **Academic Integrity**

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Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. A scholar is expected to be punctual, prepared, and focused; meaningful and pertinent participation is appreciated. Examples of academic dishonesty include but are not limited to: Turning in work as original that was used in whole or part for another course and/or professor; turning in another person’s work as one’s own; copying from professional works or internet sites without citation; collaborating on a course assignment, examination, or quiz when collaboration is forbidden.

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.***

## **Technology Requirements**

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Since this is an advanced computer-aided drafting course, students are required to have the appropriate technology to successfully participate in the course.

**Software Requirements:** A FREE student version of Chief Architect can be downloaded [here](#). for more information about educational downloads.

**Internet Access:** Students must have access to a high-speed internet connection (at least 20 Mbps download speed).

**Computer Hardware Requirements:** Students must have a computer with a Windows 10 operating system or greater that can run the desktop student version of Chief Architect and Chief Architect Interiors. The system requirements for Chief Architect can be found [here](#). Online meetings require a computer to have a speaker (or telephone) for audio. Please note: Chief Architect runs on both Windows and Mac operating systems. You will need to contact Chief Architect to determine if the software is compatible with Chromebook.

**Recommended Accessories:** A dual monitor display setup is strongly recommended. A computer with a webcam and a microphone is recommended.

**If you don't have access to the technology required for this course, please inform the instructor.**

## **Lab Time**

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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**

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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**

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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**

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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**

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**All exams will be given on the announced date.** The exams will cover material from class lecture and assigned readings. It is your responsibility to complete the exam when scheduled. Tests will be either administered through Blackboard using various styles of questions covering terminology, equipment, processes, and other items discussed. Participation for the tests is mandatory; no makeup tests will be given.

## **Midterm Exam**

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There will be no midterm exam given.

## **Final Exam**

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The final exam will be during the week of December 2, 5-7, 2022. 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**

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The culminating project for this class will be a finished residential design. 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