

CS 4340-001 Computer Architecture

Fall 2016, Sul Ross State University

Instructor: Thea Glenn

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Office Hours:

M-Th 10:00 am-12:00 pm

Class: MW 1:00 pm - 1:50 am BAB 302;

Lab: W 2:00 pm - 3:30 pm

Textbook: [Computer Organization and Design 5th addition](#)

Topics include combinational logic circuits and design sequential circuits, registers and counters, memory and programmable logic devices, register transfers and data paths, and sequencing and control. Offered spring odd years. Prerequisites: CS 2315

Program Learning Objective

1. Understand the fundamental concepts of computer science including algorithms and data structures.
2. Understand modern computer systems, databases, and networking.
3. Display an understanding and ability to implement current programming methodologies.
4. Become proficient with systems design based on object-oriented programming.
5. Work as a team in workgroup environments.

Course Objectives

1. Understand how high-level programs such as C# translate into code that the machine understands to execute a program.
2. Determine the performance of a program, and how a programmer can improve the performance.
3. Identify techniques used by hardware designers to improve performance and energy efficiency.

Weekly Assignments

Course assignments are listed under weekly assignments.

Attendance

Any student who accumulates 10 **unexcused** absences (MWF Classes) or 7 **unexcused** absences (MW classes) will be automatically dropped from this course.

Need for Assistance

Qualified students with disabilities needing academic or other accommodations to ensure full participation in the programs, services and activities at Sul Ross State University should contact the Disabilities Services Coordinator, in Counseling and Prevention Services, Ferguson Hall 112, Box C-117, Alpine, Texas 79832. Please notify me before the third day of classes.

Course Policies

Quizzes and assignments must be submitted on time. I have set up rules in Blackboard so that assignments cannot be submitted after the due date.

Academic Dishonesty: Honesty in completing assignments is essential to the mission of the university and to the development of the personal integrity of the student. Cheating, plagiarism, or other kinds of academic dishonesty will not be tolerated and will result in appropriate sanctions that may include failing an assignment, failing the class, or being suspended or expelled. Suspected cases in this course may be reported to Student Life.

Posting of Grades

As soon as assignments, exams, and quizzes are graded, the grades will be posted in Blackboard.

Grading

Letter grades will be determined using a standard percentage point evaluation as outlined below. Please note that this is a tentative schedule and can change. Any changes that happen will be updated in Blackboard. Blackboard includes the due dates for assignments and assignments are to be submitted in Blackboard.

Grades are derived as:

50% Homework

10% Attendance and participation

35% Projects

Your final grade will be determined by calculating points based on the following weights:

- A 90 - 100 %
- B 80 - 89 %
- C 70 – 79 %
- D 60 – 69 %
- F < 60%