Instructor: - Jon G. Bredeson
Email: jonbredeson@ou.edu/jonbredeson@cox.net

Office Hours: 8:00 – 9:00 AM and 10:30 to 11:45 AM, Tuesday and Thursdays.

Time & Place: Tuesday-Thursday 9:00 - 10:15 AM. Sarkeys P203

Prerequisite:
ECE 3223 or CS 2613. Any student who has not completed at least one of these prerequisite courses (as stated in the University of Oklahoma catalog) will be subject to administrative withdrawal at any time before final grades are released. It is highly recommended that students planning to complete both ECE 3223 and CS 2613 do so before enrolling in CS/ECE 4613. ECE students should only enroll in ECE 4613, and similarly CS students should only enroll in CS 4613.

Course Description:
This course covers basic concepts of computer system design and communication between components, along with current and historical examples of computer architecture.

Texts and References:
- Notes will be available on the web through Blackboard and/or WebCT
- Additional references may be provided by the instructor.

Topics to be covered:
- Background material
- Machine level representation of programs
- Processor architecture
- Optimizing program performance
- Memory hierarchy
- Program performance and efficiency
- Virtual memory system
- Advanced computer system design issues

Computer Usage:
The course will use Linux OS and C programming language. Selected course material will be delivered with information given later.

Homework/Projects:
Homework will be assigned every week starting the first week. Homework assignments will be given from the textbook and other sources. Computer programs will also be assigned. Uncollected assignments and exams will be kept in the instructor’s office. Working together on out-of-class assignments is okay, but all submitted work must reflect each student's understanding, and all documents including programs must be developed independently. There will be some longer term group projects. These groups and projects will be assigned latter.
Grading Procedure:
1. Two Exams, scheduled with a week advanced notice - 45%
2. Final Exam - 30%
3. Homework - 10%
4. Projects - 10%
5. Pop quizzes - 5%

No makeup exams will be allowed except under extreme circumstances.

Final Grades:
The final grades for the course will be curved. The number or percentage of A's, B's, etc. is not fixed. The instructor will determine the cutoff points for each grade. For all students who master this course, then they all should get A's. All students that have a better that average understanding will receive at least a B. This does not imply that there must be A's, B's, etc., but most likely a reasonable grade distribution will exist.

Academic Integrity:
The provost’s web pages include information on expectations for academic integrity. Please review the material at [http://www.ou.edu/provost/pronew/content/integritymenu.html](http://www.ou.edu/provost/pronew/content/integritymenu.html). It is the aim of the faculty of the University of Oklahoma to foster a spirit of complete honesty and a high standard of integrity as well as academic excellence. Any attempt by students to present as their own any work that they have not honestly performed is regarded by the faculty and administration as a serious offense and renders the offenders liable to serious consequences, possibly suspension.

Civility in the Classroom:
Students are expected to assist in maintaining a classroom environment that is conducive to learning. In order to assure that all students have the opportunity to gain from time spent in class, unless otherwise approved by the instructor, students are prohibited from engaging in any form of distraction. Inappropriate behavior in the classroom shall result, minimally, in a request to leave class. Please do not leave and reenter the classroom except for compelling reasons. Also be on time since late arrivals and frequent entering and leaving the classroom will disrupt the class.

Students with Disabilities:
Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact one of the instructors as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities

Laptop Computer Usage:
Access to a computer is required for this class; however, a laptop is not specifically needed.