CSE4903 (Fall 2009): Microprocessor Laboratory

Instructor: Z. Jerry Shi, ITE 365, 486-0599, zshi@ engr.uconn.edu
Schedule: Lecture: Wednesday 1 – 1:50pm, ITE 127
Lab: Wednesday 2 – 5pm, ITE C31
Office Hour: Instructor: by appointments.
Website: http://www.engr.uconn.edu/~zshi/course/cse4903/
And WebCT.
Text: Manuals and reference books available online or in the lab. See the course website for details.
Course goals: In the lab course, we will experiment with architecture features of modern processors including RISC instruction sets and cache. We will also evaluate the impact of new workloads on processor performance.
Structure: The course consists of about six lab projects. Each project involves programming in PowerPC assembly language, C language, or both. The students will work in two-person teams. The lab deliverables include a formal lab report, code, and demo (when requested). The lab report should meet all the requirements specified in Laboratory Report Requirements. In addition to the hard copies, an electronic copy of your report and your code should be submitted on WebCT before deadline. All files in a project should be placed in a single ZIP file.

There will be a final exam, which will test your understanding of the topics covered in the lab projects and presented in lectures.
Grades: Your grade for this course will be based on the following components:
- lab projects: 70%
- in-lab performance: 15%
- two exams: 15%

Late Policy: If a lab cannot be completed by the due date announced in class, you may arrange with the instructor to submit a late report. Late reports without such an explicit arrangement will not be accepted. The grades for late reports will be diminished by 10% of the maximum grade per each day late. For example, a lab that is two days late and that gets 8 out of 10 possible points will be assigned a grade of 8–10 * (10% * 2)=6.
Academic Integrity

*Academic integrity* is a fundamental expectation of all students in this course. Cheating, plagiarism, and other forms of academic misconduct are not allowed in this course. Below is a list of common misconducts. Please notice that this is **not** a complete list. It is your responsibility to be familiar with the Student Code of Conduct, and conduct yourself according to the standards that are described in the code.

- Copy answers from another student's examination sheet, homework, quiz, lab assignment, or project assignment.
- Copy answers from solutions provided to students who took the course in previous semesters.
- Copy answers from other sources such as the Internet and other people’s discussions that you do not participate in.
- Make use of notes during a closed book/closed notebook examination.
- Make use of electronic devices, such as iPhone and PDA, that are not allowed in an examination.
- Allow another student to take an examination in your place.
- Represent the work of another individual as your own.
- Assist another student to violate academic integrity.