Computer Science 4110 – Theory of Computing
Summer 2014
Stephanie Fuller – 801-626-6058, sfuller@weber.edu, office hours available as requested.

Course objectives:

- To become familiar with the mathematical modes of computers and formal language that will provide a foundation for understanding the limitations of computing.
- To provide the background needed by those students who decide to continue on to graduate studies in Computer Science.
- To develop skills in producing mathematical proofs about models of programming and formal languages.
- To understand the machine and language models associated with regular, context-free, and phrase-structure languages.
- To understand the issues of decidability, the Halting Problem, Church’s Thesis and computability.

Grading:
Grade will be comprised of quizzes, homework and mid-terms. There will be an online (canvas.weber.edu) quiz due prior to start of class every day of lecture. It will cover the chapter/lecture material for that class session. The quizzes are open book and you will be allowed two times to take it. It is designed to encourage you to look at the material before class. Classroom lecture will cover the material and the assigned homework. Homework will be due at the beginning of class the following Tuesday. If you can type your homework, that is preferred. However, the nature of the homework may not allow that. So, I must be able to read your homework. If I can’t read it, I won’t grade it. The text book has 3 major sections. There will be a midterm over each section. There will not be a comprehensive final.

- Quizzes 20%
- Homework 30%
- Midterms 50%

Letter Grades:

- A : 94% <= Total
- A- : 90% <= Total < 94%
- B+ : 87% <= Total < 90%
- B : 84% <= Total < 87%
- B- : 80% <= Total < 84%
- C+ : 77% <= Total < 80%
- C : 74% <= Total < 77%
- C- : 70% <= Total < 74%
- D+ : 67% <= Total < 70%
- D : 64% <= Total < 67%
- D- : 60% <= Total < 64%
- F : Total <60%

Policies:
Quizzes and homework is open book, and can be done collaboratively. Do not allow your classmates to take advantage of you. Collaboration is mutually beneficial, and should increase everyone’s understanding of the
material by working and discussing material and concepts with others. The online quizzes will be due by the time class starts on the day of that lecture. Monday and Wednesday homework assignments will be due the following Monday at the beginning of class. I will collect the homework and grade it to verify you have actually tried to do it. On the following Wednesday, we will review the homework in class and you will have the opportunity to correct your mistakes.

The material in this class is naturally cumulative. I will have midterms for each section. The 3rd midterm will not be a cumulative final. Midterms will be held in the Davis testing center, and I will give a free class period the week of the midterms.

Grade of 'I' will only be given in exceptional cases.

Please silence your phones and pagers before class starts.

Don’t cheat. Don’t find and blindly copy answers online, think for yourself and come up with your own solutions to homework problems. Online resources are to help you learn, not a replacement for your own work and thinking. Do not ask a classmate for homework or quiz answers. If you feel you are being taken advantage of in this area, please contact me. Collaboration is mutually beneficial, two-way learning. Cheating is not.

CS Department cheating policy: CS Department policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in:

1) an automatic failing grade for the class and
2) a report to the Dean of Students that will include the student’s name and a description of the student’s dishonest conduct.

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities in the Student Services Center, room SC 181.