Computer Science 2813

Section 1, Fall 2007

1.0 General Information

Class Time: 9-10:15, Tuesday, Thursday
Class Location: 119 Carson
Prerequisites: CS 2603 Applied Logic for Hardware and Software or ECE 2213 or ECE 2214 Digital Design
Instructor: Dr. Deborah A. Trytten

Office: 144B or 108 Engineering Laboratory (may change)
Office Phone: 325-4299 (voice mail available, but email is preferred)
Class home page: http://learn.ou.edu
Personal URL: http://www.cs.ou.edu/~trytten
Email: dtrytten@ou.edu (preferred)

These are my office hours as of the first day of class. My office hours usually have to be changed several times during the semester. The current office hours are located on the course web site and are always posted on my door.

Monday: 9-10
Wednesday: 11-12
Thursday: 11-12
Friday: 4-5

Appointments for additional office hours are scheduled through email.


2.0 Topical Coverage

I expect to cover approximately Chapter 2, 3, 4, 6, 7, 8, 9, 12 (if time permits).

Topics: Sets, Functions, Relations, Algorithms, Computational Complexity, Combinatorics, Recurrence Relations, Graph Theory, Trees, Automata, Grammars and Languages (if time permits)
Computer Science 2017

1. Course Information

Course Title: Computer Theory
Course Code: CS 101
Course Instructor: Dr. John Doe

Instructor Contact Information:
Office: 123 Computer Science Building
Phone: 555-1234
Email: john.doe@university.edu

Class Schedule:
Monday, Wednesday, Friday
1:00 PM - 2:15 PM
Location: Room 101

Course Description:
This course introduces the fundamental concepts of computer science, including algorithms, data structures, and computer architecture. Students will learn to analyze and design computer programs and understand the role of computers in various applications.

2. Course Content

1. Introduction to Computer Science
2. Algorithms and Data Structures
3. Computer Architecture
4. Operating Systems
5. Networking and Communication

Final Exam:
Date: December 15, 2017
Time: 8:00 AM - 10:00 AM
Location: Room 101

Office Hours:
Monday - Friday
10:00 AM - 12:00 PM
Office: Room 201

Required Textbook:
"Computer Science: An Introduction" by Dr. Jane Smith

Grading Policy:
40% Final Exam
40% Midterm Exam
20% Homework and Projects
3.0 Course Policies

Class Attendance and Punctuality: Class attendance is important because we will discuss concepts and examples that are not in the textbook. You are responsible for everything that is announced in class, independent of whether you choose to attend or not. Coming into class late disrupts class. Please be on time, including allowing ample time for parking.

Class Home Page: This class will use Desire2Learn software for our home page. The URL for the home page is http://learn.ou.edu. Login with your 4+4 (first four letters of your last name followed by the last four digits of your student number), using your standard OU password. If you have difficulty logging in, call 325-HELP. This software provides a number of useful features, including a list of assignments and announcements, an electronic mailing list, newsgroups, and grade book. I update this web site several times a week. You should check the site daily. When I update the site, I will post an announcement telling you what has been added and where it is located. You are responsible for things posted on the site with a 24 hour delay. When I post important things, I frequently send an email.

Class Email Alias: Urgent announcements will be sent through email. It is your responsibility to:

- Have your university supplied email account forwarded to the location where you read email.
- Make sure that your email address on the course home page is correct, and forwards email to the place where you read it. I’ll send out a test message during the first week of class. If you do not receive this message, it is your responsibility to get the problem resolved.
- Have your email program set up so that replying to your email will work correctly. You can send email to yourself and reply to yourself to test this.

If you need assistance in accomplishing any of these tasks, contact 325-HELP. You are responsible for reading emails within 24 hours.

Forward and Backward Homework: This class uses a two-tiered homework structure. Students do forward homework before class to familiarize themselves with basic definitions, terms, and calculations. These are turned in at the start of class. Forward homework problems are typically easier than the problems that will be on the examination. Backward homework is done after class, and is due according to the schedule on learn.ou.edu. Generally backward homework problems are of equivalent difficulty to problems that will be on the examination.

Recap Quizzes: At the end of each class day will be a short recap quiz. This gives students a chance to practice the knowledge learned in class immediately. It also provides the instructor with immediate feedback on misunderstandings that need to be addressed before continuing.

Examinations: There will be two midterm examinations and a final examination. Tentative dates for the examinations are given in the class schedule posted on the course home page. During examinations students must sit in assigned seats. Missing an examination without a previously approved excuse will result in a grade of zero for that examination. If an examination is missed for a verifiable, documented, and approved reason the percentage of the grade coming from the final examination will be increased to 45%. Makeup examinations are never available, except as required by University policy.
Final Examination: The final examination is on Friday, December 14, from 8-10 a.m. in our regular classroom. The final is comprehensive, as required by College of Engineering policy. No final examinations can be given early, except as required by University policy.

Discussion Groups and Email: The discussion group on the course home page should be the primary method of communication outside of class. This allows everyone in the class to benefit from the answer to your question. Matters of personal interest should be directed to email instead of to the newsgroup, e.g. informing me of an extended personal illness. Posting guidelines for the newsgroup are linked on the home page.

Academic Misconduct: All work submitted for an individual grade, such as homework, should be the work of that single individual: not their friends, not their tutor.

1. Do not show another student a copy of your homework before the submission deadline. The penalties for permitting your work to be copied are the same as the penalties for copying someone else’s work.

2. If you choose to do your work on your computer, make sure that your computer account is properly protected. Use a good password, and do not give your friends access to your account or your computer system. Do not leave printouts, or thumb drives around a laboratory where others might access them.

Upon the first documented occurrence of collaborative work, I will report the academic misconduct to the Campus Judicial Coordinator. The procedure to be followed is documented in the University of Oklahoma Academic Misconduct Code (http://www.ou.edu/studentcode). In the unlikely event that I elect to admonish the student, the appeals process is described in http://www.ou.edu/provost/integrity-rights/.

Tutors: I’m willing to meet with students, both during office hours and at other times, to provide assistance in learning the course material. Please see me first before going to the trouble and expense of hiring a tutor. If you choose to hire a tutor, remember that although tutors can be an excellent source of support for students who are having difficulty in the class they are helpful only if the tutor is aware of the distinction between teaching students the material so that they can do their own work, and doing work for students. Tutors who do work for students are not only failing to help the students learn, they are abetting academic misconduct.

- If your tutor is methodically telling you what to write, he or she is abetting academic misconduct.

- If you tutor is emailing files containing partial or complete assignments to you, you will commit academic misconduct if you turn them in.

A more effective use of tutoring services is to do problems that are similar to the assigned work, instead of doing assigned work. For example, it would be fine to work unassigned problems from the textbook with a tutor. This requires significant discipline, both on the part of the tutor and the part of the student. Copying from a tutor is as unacceptable as copying from another student. If your tutor doesn’t know how to teach properly, please ask them to call or visit me and I will provide training and guidance. If you are tutoring someone else in the class, you can be accused of academic misconduct if this person copies your work.
Incompletes: The grade of I is intended for the rare circumstance when a student who has been successful in a class has an unexpected event occur shortly before the end of the class. I will not consider giving a student a grade of I unless the following three conditions have been met.

1. It is within two weeks of the end of the semester.
2. The student has a grade of C or better in the class.
3. The reason that the student cannot complete the class is properly documented and compelling.

Accommodation of Disabilities: The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the professor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone 405/325-3852 or TDD only 405/325-4173.

University Deadlines: The table below summarizes important deadlines for students at the University of Oklahoma. It is the responsibility of the student to keep track of these deadlines if they may wish to withdraw from this class. Be warned that I follow university policy extremely literally. During the period when withdrawal can result in either a W or an F, I will give a W only if the student is receiving a D or better in the class.

<table>
<thead>
<tr>
<th>Event</th>
<th>Last Date</th>
</tr>
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<tbody>
<tr>
<td>Last day to Add</td>
<td>Aug 24</td>
</tr>
<tr>
<td>Last day to Drop with refund</td>
<td>Aug 31</td>
</tr>
<tr>
<td>Last day to drop with automatic W</td>
<td>Sept 28</td>
</tr>
<tr>
<td>Last day to change to audit</td>
<td>Oct 26</td>
</tr>
<tr>
<td>Drop with grade of W/F without permission of the Dean</td>
<td>Oct 28</td>
</tr>
</tbody>
</table>

Classroom Conduct: Disruptions of class will not be permitted. Examples of disruptive behavior include:

- Allowing a cell phone or pager to repeatedly beep audibly.
- Playing music or computer games during class in such a way that they are visible or audible to other class members.
- Exhibiting erratic or irrational behavior.
- Behavior that distracts the class from the subject matter or discussion.
- Making physical or verbal threats to a faculty member, teaching assistant, or class member.
- Refusal to comply with faculty direction.

In the case of disruptive behavior, I may ask that you leave the classroom and may charge you with a violation of the Student Code of Responsibilities and Conduct.
4.0 Evaluation

Grading Questions on Homework and Examinations: All homework and examinations in this class are graded by the instructor. If you have a question about the grading of these items, please see me during my office hours. All disagreements about the grading of homework must be brought to my attention within one week of when the item was first returned. If there is a dispute about the grading of an examination problem, you may stay after class the day the tests are returned to discuss it. If you cannot stay at this time, return the paper to me and stop by during my office hours. Once a test has been removed from the classroom after it has been returned, the grade is final and will not be changed, even if it is found to be in error.

Desire2Learn Grade Summary: Desire2Learn has a grade book that is used to store the raw data that is used to calculate your course grade. It is the responsibility of each student in this class to check their grades on Desire2Learn after each homework or examination is returned. If an error is found, bring the grading document to me or the TA, and we will correct it. The grade book does not understand how grades are actually calculated in this class. It therefore may show things like percentages and total points that may be incorrect. The correct formulas for calculating grades are given in this document.

Grading: There are six components to the course grade. They are weighted as follows.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percent</th>
</tr>
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<tbody>
<tr>
<td>Midterm 1</td>
<td>20</td>
</tr>
<tr>
<td>Midterm 2</td>
<td>20</td>
</tr>
<tr>
<td>Forward Homework</td>
<td>0-5+++</td>
</tr>
<tr>
<td>Back Homework</td>
<td>25</td>
</tr>
<tr>
<td>Recap Quizzes</td>
<td>0-5+++</td>
</tr>
<tr>
<td>Final Examination</td>
<td>25-35*</td>
</tr>
</tbody>
</table>

* If the final examination grade is higher than the forward homework or recap quiz grade, it will replace these grades.
+ The lowest five forward homework and recap quizzes will be dropped

The grading scale will be no higher than the following. It may be lower at the discretion of the instructor.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90+</td>
</tr>
<tr>
<td>B</td>
<td>80-89</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
</tr>
<tr>
<td>D</td>
<td>60-69</td>
</tr>
<tr>
<td>F</td>
<td>Otherwise</td>
</tr>
</tbody>
</table>

Borderline Grade Decisions: Grades are rounded to the nearest whole number. Although it would be preferable that all grades are cleanly decided, it is usually the case that a few final
course grades are decided by only a few points. I have an algorithm for determining grades in these difficult cases.

A grade is a borderline grade if it is within two points of the next higher grade. Therefore, grades like 69 and 78 are borderline grades, but grades like 81 and 92 are not. The grade on the final examination will be used to determine borderline grades. If the grade on the final is below the threshold for the higher grade, the lower grade will be given. If the grade on the final is above the threshold for the higher grade, the higher grade will be given.