Time and Place: Monday, Wednesday, 2:15 - 3:30 in room 121 MCS aka MSB;

Instructor: Michael Rothstein, 268 MSB, phone 330-672-9065. Email addresses: either mrothste@kent.edu or rothstei@cs.kent.edu (both addresses go to the same place, so if you send a message to both places, I will simply get it twice).

Web address: http://www.cs.kent.edu/rothstei

Office Hours: MW 9:30 to 10:30 and 12:30 to 1:30 pm. Also, you can always send email with questions and/or to set up an appointment. Usual turnaround will be a few hours during the day. Email use is to be preferred over voicemail, which will not be checked as often.

Computer Science Departmental Office: 241 MSB (after you exit the elevator, turn right, walk to the corridor, turn right again, the CS office entrance is at the end of the corridor.)

Phone 330-672-9980

Course Goals: The primary goal of this course is to learn how to prove statements about algorithms. Along the way, we will learn about sets, logic, numbers, and some algorithm design techniques.


Course Description: This course is very different from most courses you have taken in the past; probably the only course similar to it may be Geometry in High School, with its emphasis on proofs. We will emphasize proofs in this course also; in fact, that is the whole reason for this course.

On even-numbered Wednesdays, that is September 3 and 17, October 1, 15 and 29, November 12 and December 3, we will hold “exercise sessions” where exercises will be assigned to be done in class. These exercises are open book, open notes, etc., but ALL sources must be acknowledged; in addition, no verbatim copied is allowed; all text must be your own.

Material to be covered: I will try to cover as much as possible from the following sections in the book:

Chapter 1 Sections 1 - 3
Chapter 2 Sections 1 - 4
Chapter 3 Sections 1 - 6, 8
Prerequisite: The only prerequisite for this course is CS 10051, Intro to Computer Science.

Attendance policy By initiative of the Provost of the University, I have been charged with keeping full attendance records, at least for the first ten weeks of the semester. Though I will not compute these records into your final averages, when I assign letter grades, I will give you a slightly better grade if you have a better attendance record. Notwithstanding the above, if you are absent, there may be material created, either spontaneously or in response to questions, and covered in the classroom; often there will not be any written notes of this material, so it might be a good idea to team up with somebody who keeps good notes to make sure you have all the material covered. Some of this material may show up in an exam.

Read the text. Only general reading assignments will be given. The class will mostly cover material in the same order as the text book, there may be exceptions however. It is the student’s responsibility to maintain an awareness of the material in the text that is currently being covered. Ask the instructor if you are unsure of the text material currently being covered.

The syllabus may be changed during the semester if necessary: changes will be announced in class; they might also show up on the instructor’s website.

Some good hints about studying computer science are available at the website: [http://www.educ.kent.edu/community/docwhiz/rdng.html](http://www.educ.kent.edu/community/docwhiz/rdng.html)

I recommend you read it and follow its advice: notice what it says about exercises: DO them; at least try; they illustrate a lot of the concepts from the class.

Class disruptions Disruptions should be kept to a minimum; these include (in increasing order of seriousness):

1. Early departure (if announced and done discreetly: please sit near the door so that as few people as possible notice.)
2. Late arrival
3. Use of electronic devices or other devices which may interfere with your or other student’s participation. Laptops are acceptable for taking notes, however, please sit in the last row of the room so that your screen does not distract/block other students.

4. Conversation among students.

5. Aiding and/or abetting these or any other student’s disruptive behaviors.

Guidelines pertaining to class disruptions are outlined in the University Rules and Regulations, available through:

http://www.kent.edu/policyreg/chap4/4-02-2.cfm

**Grading:** Your grade will be based mainly on the average grade you obtain in the “exercise sessions” and the final, scheduled for 12:45-3:00 on Friday, Dec 12th. The final will be comprehensive. I will compute two different averages:

1. All Exercise sessions.
2. Dropping the worst exercise session, and giving the remaining 6 a weight of 13% with the final getting the remaining 22%

I will then use the better of the two averages to assign a letter grade as described below.

**Test make-up policy:** I will need signed documentation to verify each individual absence in order to provide make-ups; only university accepted reasons will be honored.

**Grading scale:** I will assign number grades during the session and only convert them to letter grades when I turn them in at the end of the session. No decision can be made regarding a conversion table until the very last minute due to such imponderables as test difficulty, class attendance and participation, etc. which will influence the grade. However, I guarantee the following, worst case, table:

<table>
<thead>
<tr>
<th>Number Grade</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>97-100</td>
<td>will convert into an A</td>
</tr>
<tr>
<td>94-96</td>
<td>will convert into at least an A-</td>
</tr>
<tr>
<td>91-93</td>
<td>will convert into at least a B+</td>
</tr>
<tr>
<td>88-90</td>
<td>will convert into at least a B</td>
</tr>
<tr>
<td>85-87</td>
<td>will convert into at least a B-</td>
</tr>
<tr>
<td>82-84</td>
<td>will convert into at least a C+</td>
</tr>
<tr>
<td>79-81</td>
<td>will convert into at least a C</td>
</tr>
<tr>
<td>76-78</td>
<td>will convert into at least a C-</td>
</tr>
<tr>
<td>73-75</td>
<td>will convert into at least a D+</td>
</tr>
<tr>
<td>66-72</td>
<td>will convert into at least a D</td>
</tr>
</tbody>
</table>

**Special accommodations for Students with Disabilities:** University policy 3342-3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content.
If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through Student Disability Services (contact 330-672-3391 or visit: http://www.kent.edu/sas for more information on registration procedures).

Registration Requirement: The official registration deadline for this course is September 7, 2008. University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashFast) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.

On cheating, plagiarism and other unethical behavior You are encouraged to discuss class problems with other students but required to work independently of anybody else except the instructors and/or tutor, unless otherwise indicated. Copying other people's work, allowing your work to be copied (even inadvertently!) and plagiarizing work will not be tolerated and will be dealt with according to University regulations, as described in the University Policies and Procedures, a condensed version of which is attached.

Notes:

1. By default, the penalty for cheating in this course is an “F” in the course.
2. University regulations require me to notify Student Conduct in case of violations.
3. Cooperation is just as bad as the deed itself: so, deciding which of two is the original is a non-issue: both are equally guilty.

ADMINISTRATIVE POLICY AND PROCEDURES REGARDING STUDENT CHEATING AND PLAGIARISM

Condensed Version

For complete policy and procedure go to www.kent.edu/policyregister 3342-3-01.8 (available at http://www.kent.edu/policyreg/chap3/3-01-8.cfm)

Cheating and plagiarism constitute fraudulent misrepresentation for which no credit can be given and for which appropriate sanctions are warranted and will be applied.

The university affirms that acts of cheating and plagiarism by students constitute a subversion of the goals of the institution, have no place in the university
and are serious offenses to academic goals and objectives, as well as to the rights of fellow students.

“Cheat” means to intentionally misrepresent the source, nature, or other conditions of academic work so as to accrue undeserved credit, or to cooperate with someone else in such misrepresentation. Cheating includes, but is not limited to:

1. Obtaining or retaining partial or whole copies of examinations, tests or quizzes before these are distributed for student use;
2. Using notes, textbooks or other information in examinations, tests and quizzes, except as expressly permitted;
3. Obtaining confidential information about examinations, tests or quizzes other than that released by the instructor;
4. Securing, giving or exchanging information during examinations;
5. Presenting data or other material gathered by another person or group as one’s own;
6. Falsifying experimental data or information;
7. Having another person take one’s place for any academic performance without the specific knowledge and permission of the instructor;
8. Cooperating with another to do one or more of the above;
9. Using a substantial portion of a piece of work previously submitted for another course or program to meet the requirements of the present course or program without notifying the instructor to whom the work is presented; and
10. Presenting falsified information in order to postpone or avoid examinations, tests, quizzes, or other academic work.

“Plagiarize” means to take and present as one’s own a material portion of the ideas or words of another or to present as one’s own an idea or work derived from an existing source without full and proper credit to the source of the ideas, words, or works. As defined, plagiarize includes, but is not limited to:

a. The copying of words, sentences and paragraphs directly from the work of another without proper credit;
b. The copying of illustrations, figures, photographs, drawings, models, or other visual and nonverbal materials, including recordings of another without proper credit; and
c. The presentation of work prepared by another in final or draft form as one’s own without citing the source, such as the use of purchased research papers.
Academic Sanctions

The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. Kent campus instructors shall notify the department chairperson and the student conduct office each time a sanction is imposed. Regional campus instructors shall notify the regional campus dean and the student conduct officer each time a sanction is imposed. Regional campus student conduct officer shall notify the Kent student conduct office each time a sanction is imposed by a regional campus Instructor. The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. In those cases the instructor may:

1. Refuse to accept the work for credit; or
2. Assign a grade of “F” or zero for the project, test, paper, examination or other work in which the cheating or plagiarism took place; or
3. Assign a grade of “F” for the course in which the cheating or plagiarism took place; and/or;
4. Recommend to the department chair or regional campus dean that further action specified in the rule be taken. The department chairperson or regional campus dean shall determine whether or not to forward to the academic dean or to the vice president for the extended university a recommendation for further sanction under this rule.

Academic Appeals

The general principle that applies to the following procedures is that an appeal is directed to the administrative level immediately above the unit from which the appeal emanates.

Appeals are limited to the following reasons:

a. The decision is arbitrary or unreasonable,
b. The decision resulted from a procedural error,
c. The decision is not in accordance with the facts presented,
d. New information is available which may suggest modification of the decision.

For complete policy and procedure go to www.kent.edu/policyregister 3342-3-01.8, available at http://www.kent.edu/policyreg/chap3/3-01-8.cfm