CSC 248: Discrete Structures

Instructor: Christopher Siu, cesiu@calpoly.edu

Lectures:  
Section 01: MW, 8:10am–10:00am, Fisher Science (033–457)  
Section 02: MW, 10:10am–12:00pm, Dexter (034–228)  
Section 03: TR, 9:10am–11:00am, Agriculture (010–226)

Office Hours: MWF, 3:10pm–5:00pm, Computer Science (014–236)  
TR, 12:10pm–5:00pm,  

Course Website: All course information can be found on Canvas.  
This syllabus is at https://users.csc.calpoly.edu/~cesiu/csc248/syllabus.pdf

Supplementary Texts

This course covers the following topics¹:  
· Propositional and predicate logic  
· Proof techniques  
· Sets, relations, and functions  
· Sequences and summations  
· Recursive definitions  
· Introductory algorithm analysis  
· Introductory combinatorics  
· Graphs and trees

The following texts may be helpful, but are not required:  

Grade Breakdown

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<table>
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<tbody>
<tr>
<td>Homework (2)</td>
<td>2%</td>
</tr>
<tr>
<td>each</td>
<td>1%</td>
</tr>
<tr>
<td>Quizzes (8)</td>
<td>35%</td>
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<tr>
<td>each (1 dropped)</td>
<td>5%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>33%</td>
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A 92%  
B 82%  
C 72%  
D 60%  
F below 60%

Plus/minus grades will be given at ±2% offsets². Rounding will be done on a strictly case-by-case basis.

Homework

Homework will be assigned every week, and will be collected along with each exam. Homework will be graded only for effort and completion, not for correctness. There will be no late homework accepted.

Quizzes

There will be a quiz given at the beginning of lecture every Wednesday or Thursday, beginning with the second full week of instruction, except when there is an exam given or academic holiday. Quiz problems will be drawn directly from the corresponding homework — if you attend lecture and complete the homework, you can expect to do well on the quizzes. There will be no make-up quizzes, and your lowest quiz score will be dropped.

¹ This list is not exhaustive.  
² Offsets are determined by the instructor according to the class performance.
Important Dates

- Midterm Exam: W, February 9\textsuperscript{th} or R, February 10\textsuperscript{th} (in lecture)
- Common Final Exam: to be determined
- No Class or Office Hours:
  - M, January 17\textsuperscript{th}
  - M, February 21\textsuperscript{st}

Attendance

Attendance is always expected, but it is only required on days when a quiz or exam is given or an assignment is due. Contact your fellow students if you have missed a class and wish to know what was covered; unless previously arranged, I will not reiterate missed lectures.

Classroom Etiquette

You are free to use computers, tablets, phones, or other electronic devices in the classroom, except during quizzes and exams. However, out of respect for your classmates, please silence your devices and consider sitting in the back. If I feel that you are distracting your classmates, I may ask you to put away your devices.

Disability Accommodations

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Disability Resource Center, Building 124, Room 119, at (805) 756–1395, as early as possible in the term.

COVID-19 Guidance

The university is committed to protecting the health and safety of the campus community. By participating in this course, you agree to abide by ongoing testing and safety protocols as outlined in the COVID-19 Presidential Order, including:

- Participating in COVID-19 testing and daily health screenings, as required by the university
- Wearing a face covering, maintaining physical distance, and adhering to health and safety signage

For further details, see https://ctlt.calpoly.edu/covid-19-faculty-resources.

Academic Integrity

The university does not condone academic cheating or plagiarism in any form. Students are expected to behave in accordance with the university’s expectations. I encourage you to collaborate in your homework assignments; however, quizzes and exams must be solitary efforts.

Cheating requires, at minimum, a grade of ‘F’ given for the assignment, exam, or task to all students involved.

\textsuperscript{1} Portions of this course adapted from material by Dr. Theresa Migler, Dr. Ignatios Vakalis, and Paul Hatalsky.
\textsuperscript{2} That is, an ‘A−’ requires a grade of at least 90%; a ‘B+’, 88%; and so forth.