CS131 (Combinatoric Structures) Syllabus

# Course Overview

Instructor

Olga Lepsky, Ph.D.

Email

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Office Location

PSY 228C

Office Hours

Tue/Thur: 1pm-2pm

Teacher Fellow

Sofia Nikolakaki

Email

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In this introductory class we study representation, analysis, techniques, and principles for manipulation of basic combinatoric structures used in computer science. Rigorous reasoning is emphasized. The course is a required class for the CS concentration.

# Lectures Time and Location

Tue/Thur: 11am-12:30pm, CAS 224

# Labs Time and Location

Wed 11-12 (CGS 521), 1-2 (MCS B23), 2-3 (COS B57), 3-4 (CAS 213)

# Textbooks (recommended)

How To Prove It, by Velleman (first three chapters)

Discrete Mathematics and Its Applications, by Rosen

Mathematics for Computer Science (online in pdf format), *by* *Eric Lehman, Tom Leighton, and Albert Meyer, September 8, 2010 revision* [*http://courses.csail.mit.edu/6.042/fall10/mcs-ftl.pdf*](http://courses.csail.mit.edu/6.042/fall10/mcs-ftl.pdf)

# Course Materials

* use Blackboard Learn: CS131 A1 for handouts, announcements, discussions, homework assignments and submission, grades, and grading comments
* bring a clicker (Turning Technologies ResponseCard NXT) to every lecture

# Homework Policy

The homework will be posted and has to be submitted via Blackboard Learn by the due date. Each homework should be done individually, but you may collaborate with one another in studying the material from the textbook and lecture notes, and in discussing the homework problems. Homework may be handwritten or typewritten, it should be easy to read and stored/scanned in PDF or JPG format. Late homework gets 10% penalty for each day after the due date, homework submitted more than 5 days late is graded zero.

# Grading

The course grade will break down as follows:

* Homework: 25%
* Quiz: 5%
* Midterm 1: 20%
* Midterm 2: 20%
* Final Exam: 30%

# Attendance

It is expected that you will attend each lecture and laboratory section of the course and take notes. Please don’t hesitate to ask questions during the labs, lectures, and come to office hours.

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