COGS 119 & 219
MATLAB for Experimental Research

Winter 2016
Part 1: Course Introduction
Course Info

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Course Info

Course Days:  
Tuesday and Thursdays 2:00-3:20 pm

Course Website: matlabfun.ucsd.edu  
All lecture notes, assignments and readings will be posted to the website.

Syllabus available on the website.

Homework 0: **Read the syllabus carefully.**  
(We really mean that. Read it completely and carefully now, and consult as needed throughout the course)
What should you expect from the course?

- This course will not “teach” you how to program and develop an experiment.

- Rather, the course will help you develop those skills.

- We are like a sports coach or a piano teacher.

- We will provide information, support, motivation, guidance, and structure.

- You will be doing the work.
Coursework and Assessments

- As in sports or music, you will not be able to develop these skills in a single lecture, or even in a week or two.

- Acquiring skills requires consistent work and practice.

- Coursework will guide you.

- Along the way, you will be earning your course grade.

- Course workload is distributed. You cannot study in bursts (e.g., before exams). Rather you are consistently putting in work, building skills, and earning your grade.
Course Structure and Evaluation

- Assignments
  - Programming work
  - Use knowledge of class material

- Quizzes
  - In class (during lecture hours)

- Project
  - Group project
  - Code/Demo, Presentation, Final paper, Weekly progress reports

WEEKS 1-6

WEEKS 7-10
Lecture hours

- Lecture slides
- Hands-on MATLAB
Tentative Course Outline

- Week 0: Introduction to MATLAB
- Week 1: Matrix basics and Flow control
- Week 2: Cell Arrays, Functions and Images
- Week 3: Sounds
- Week 4: Input/Output and Psychtoolbox
- Week 5, 6: Psychtoolbox
- Week 7-10: Work on Projects
**Time-sensitive**

- You must notify us by Jan 14 of any absences related to university events for consideration. See syllabus for excusable absences.
- You must notify us by Jan 14 of any requests for accommodations due to disability – all documentation must be received, signed and approved by this date.
- See syllabus for details.