



# COGS 119

## MATLAB for Experimental Research

Fall 2014 – Week 0  
Introduction to Course  
Vectors and Matrices

# Course Info

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# Course Info

## Course Days:

Tuesday and Thursdays 5:00-6:20 pm

## Course Website: [matlabfun.ucsd.edu](http://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

WEEKS 1-6

- Quizzes
  - In class (during lecture hours)

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

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 Oct 16 of any absences related to university events for consideration. See syllabus for excusable absences.
- You must notify us by Oct 16 of any requests for accommodations due to disability – all documentation must be received, signed and approved by this date.
- See syllabus for details.