

Psych M114, MATLAB Programming

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Office Hours: Friday 3-3:50pm

Teaching Assistants:

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Textbook. *Matlab for Psychologists* (2012), Borgo, M., Soranzo, A., Grassi, M. Available online as e-book on UCI network. This might not work outside of the UCI network (click on free preview): <http://www.springer.com/psychology/book/978-1-4614-2196-2>. You can also try this direct link: <http://link.springer.com/book/10.1007/978-1-4614-2197-9/page/1>

Getting help:

- 1) Ask instructor or teaching assistants during class
- 2) Consult Matlab documentation (type in "doc" in command window)
- 3) Look at other tutorials. You also might find it useful to look at other tutorials on the web:
http://www.antoniahamilton.com/matlab_for_psychologists.pdf
<https://www.mathworks.com/support/learn-with-matlab-tutorials.html>
<https://matlabacademy.mathworks.com/>
- 4) Attend (optional) discussion section led by TAs: **Wednesday 3:30-4:20pm SBSG240 (led by TAs)**

Course Summary. This course is designed as a "first-course" in programming using Matlab as the primary language. The first half will provide a background in the rudiments of programming, including syntax, program control, input/output management, debugging techniques and graphics. During the course, we consider applications to problems encountered in Cognitive Science such as data collection, data visualization, data analysis, and stimulus generation.

Teaching approach.

- The majority of the class time will be used to work on exercises, solving the assignments in the quizzes and reading through the book. In addition, there might be some short (10min) lectures scheduled later in the quarter to explain some basic concepts of programming.
- There are screencast lectures available on the class website. You might find it useful to watch these lectures outside as well as during class time. Please wear headsets when watching the screencasts during class time.
- You can work at your own pace but there are cut-off dates for the assignments (as posted on the class website). Therefore, a certain pace is required to progress

through the assignments.

- It will be good to work quickly through the early assignments – you'll spend a much longer time on the later assignments. You might not finish all assignments if you allot an equal amount of time for each assignment.
- You are allowed and even encouraged to work with other students to solve the assignments. Please note that you are responsible for your own submissions of the assignments (see note on Academic Misconduct below).
- During class time, the instructor and teaching assistants will be available to answer any questions related to the assignments or general questions about Matlab.

Matlab Software

- The classroom computers have Matlab installed
- Having your own laptop computer with Matlab installed allows you to continue to work outside the classroom -- helpful, but certainly not required.
- A free student version of Matlab apparently is available by following these instructions:
<http://laptops.eng.uci.edu/software-installation/matlab>

Grading Policy. Grades will be based on

- Required assignments. The required assignments will start as multiple-choice questions but will quickly move to programming assignments that require you to copy/paste Matlab code. These assignments will constitute 100% of the grade. Note that the first couple of assignments use the quiz feature on the EEE website. The later assignments will require in-class demonstrations of your program. For these assignments, we do not accept emailed programs.
- There are optional assignments chosen by you. The specialized assignment will go into depth in a particular area of Matlab programming. These assignments can serve as extra-credit for grading purposes. This assignment will require in-class demonstrations of your program. We do not accept emailed programs.

Academic Misconduct

Learning, research, and scholarship depend upon an environment of academic integrity and honesty. This environment can be maintained only when all participants recognize the importance of upholding the highest ethical standards. All student work, including quizzes, exams, reports, and papers must be the work of the individual receiving credit. Academic dishonesty includes, for example, cheating on examinations or any assignment, plagiarism of any kind (including improper citation of sources), having someone else take an examination or complete an assignment for you (or doing this for someone else), or any activity in which you represent someone else's work as your own. Violations of academic integrity will be referred to the Office of Academic Integrity and Student Conduct. The impact on your grade will be determined by the individual instructor's policies. Please

familiarize yourself with UCI's Academic Integrity Policy (<https://aisc.uci.edu/policies/academic-integrity/index.php>) and speak to your instructor if you have any questions about what is and is not allowed in this course.