QTM 120: Math for Quantitative Sciences

Instructor, Classroom, and Office Hours

Instructor: Jeremy Jacobson
Email: jeremy.a.jacobson@emory.edu
Office: Institute for Quantitative Theory and Methods 405A
Office Hours: MTTh 10:30AM – 11:20AM, W 2:30PM – 3:20PM
If you cannot make it to my office hours, please email me to arrange another time.
Classroom and Time: Candler Library 101, MTWThF 11:30AM – 12:50PM
Lab Time: Friday 1:00PM – 4:00PM
Course Webpage: http://www.mathcs.emory.edu/~jajaco3/teaching/qtm120

Prerequisites, Topics, Course Description and Textbooks

Prerequisites
AP Calculus (AB) or Math 111 (Calculus 1).

Topics
Those core concepts of linear algebra and multivariable calculus which are necessary for the more advanced course offerings in the major.

Course Description
This course is a mandatory course for all Quantitative Sciences majors. It is also a prerequisite for the more advanced course offerings in the major including Regression Analysis, Maximum Likelihood Estimation, Longitudinal Data Analysis as well as the game theory sequence. The goal of the course is to provide the necessary mathematical background for students to properly derive and implement common statistical modeling techniques employed in the sciences. The first half of the course focuses on linear algebra and the second half on multivariable calculus.

Textbooks

Homework and Exams

There will be regular homework assignments which you will be tested on by way of four 50-minute exams that will take place during lab. The final exam is comprehensive. Calculators will not be needed nor permitted during exams.

Continued on next page...
Important Dates

The comprehensive final exam must be taken on the date below. Check your calendar. If the final exam schedule results in three final exams on one day, bring this matter to the attention of your academic dean who can assist you further.

Exam 1: Friday, May 27th, 3:10PM
Exam 2: Friday, June 3rd, 3:10PM
Exam 3: Friday, June 10th, 3:10PM
Exam 4: Friday, June 17th, 3:10PM

Last day of class: Wednesday, June 22nd

Final exam: Thursday, June 23rd, 12:30PM – 3:00PM

Grading

The grading weights are 15% first exam, 15% second exam, 15% third exam, 15% fourth exam, 40% final. The grading scale is described below. Borderline cases may not to be rounded up.

A ≥ 93,
A- ≥ 90,
B+ ≥ 87,
B ≥ 83,
B- ≥ 80,
C+ ≥ 77,
C ≥ 73,
C- ≥ 70,
D+ ≥ 67,
D ≥ 60

Course Policies

Exam Attendance
If you have a schedule conflict with any exam come talk to me immediately. Absences from midterm exams and the final are subject to the rules described in the section Incompletes and absences at:

http://college.emory.edu/home/academic/policy/incomplete_absence.html

If you will be unable to attend a midterm exam for a documented and approved reason, then bring the documentation to me as soon as possible. Once approved, a makeup exam can be given.

The Honor Code
The Emory College Honor Code applies to all work in this class. For details see:

http://college.emory.edu/home/academic/policy/honor_code.html

Accomodations
All information shared with me regarding your identity, disability and accommodations is confidential. Please contact me as soon as possible so that I can provide the approved accommodations outlined on the Accommodation Notification Letter. I am happy to consult with ADSR in providing additional accommodations.