

# Matrix Algebra with Applications

## Math 308 I and J, Autumn 2016

**Instructor:** Josh Swanson

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**Course Website:** [http://www.math.washington.edu/~jps314/m308\\_au2016](http://www.math.washington.edu/~jps314/m308_au2016)

**Course Wiki:**

Section I: [https://staff.washington.edu/jps314/wiki/m308I\\_au2016](https://staff.washington.edu/jps314/wiki/m308I_au2016)

Section J: [https://staff.washington.edu/jps314/wiki/m308J\\_au2016](https://staff.washington.edu/jps314/wiki/m308J_au2016)

**Office Hours:** Monday and Friday, 2:30-3:20pm.

**Text:** *Linear Algebra with Applications* by Jeffrey Holt. You may purchase a hard copy of the text at the bookstore or use the electronic version that comes with WebAssign.

**Course Content:** Math 308 is an introductory course in linear algebra intended for students in engineering, mathematics, and the sciences. Topics will include systems of linear equations, vector spaces, matrices, subspaces, orthogonality, least squares, eigenvalues, eigenvectors, and applications.

**Grading:** Your grade will consist of:

Homework (WebAssign)	15%
Project	25%
Midterm	25%
Final Exam	35%

though I reserve the right to tweak the grading scheme during the quarter as I see fit.

**Project:** While Math 308 often has two midterms or quizzes, we will have a quarter-long project. You will maintain a course wiki in small groups. See the project description on the course website for further details. I strongly encourage you to discuss the project with me in office hours. If you and/or your group cannot attend office hours, email me to schedule an appointment.

**Homework:** Homework is assigned and collected via WebAssign. During most weeks, homework will be due at 11:00 p.m. on Thursday, with a couple of exceptions to accommodate exams, holidays, and the end of the quarter. See the schedule for specific due dates. You may miss up to 10% of the total number of homework points during the quarter without penalty to your grade.

**Exams:** You will be allowed to use a scientific calculator and one  $8.5 \times 11$  sheet of **handwritten** notes for the exams. Graphing or programmable calculators and other electronic devices will not be allowed (e.g. no cell phones, no laptops, etc). You may not share a calculator nor a note sheet with another student on an exam.

All exams will be in the regular lecture room, PCAR 293 for Section I and CHL 015 for Section J.

Midterm	Wednesday, November 2nd, 2016	In-lecture
Final Exam, Section I	Thursday, December 15th, 2016	8:30-10:20am
Final Exam, Section J	Monday, December 12th, 2016	2:30-4:20pm

**Make-Ups:** Extensions and extra submissions on homework will not be given under any circumstances. You may miss up to 10% of the total number of homework points during the quarter without penalty to your grade.

In the case of observance of religious holidays or participation in university sponsored activities, such as class field trips or athletics, arrangements must be made at least one week in advance for exams. You will be required to provide documentation for your absence.

Make-up exams will not be given. If you miss the midterm due to unavoidable, compelling, and well-documented circumstances (e.g., illness, transportation emergency), your final exam may be weighted more heavily. If you miss the final, we will have to discuss your options. **Contact me immediately if one of these circumstances arises.**

**Resources for Students with Disabilities:**

The University of Washington is committed to providing access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation contact the Disability Services Office at least ten days in advance at: 206-543-6450/V, 206-543-6452/TTY, 206-685-7264 (FAX), or dso@u.washington.edu.