

# Matrix Algebra with Applications

## Math 308 A,D; Winter 2017

**Instructor:** Dr. Amos Turchet

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**Course Website:** <http://www.math.washington.edu/~aturchet/teaching/win2017/math308.html>

**Office Hours:** MW 3:30-4:30 p.m. or by appointment

**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	6%
Quizzes	7%
Lowest Midterm	21%
Higher Midterm	26%
Final Exam	40%

Your raw percentage score resulting from the above table might be curved after evaluating the performance of the class over the entire quarter.

**Homework:** homework assignments will be assigned and collected via webassign. During most weeks, homework will be due at 11:00 p.m. on Thursday, with a couple of exceptions during exam and holiday weeks, when it will be due on Tuesday. 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.

**Quizzes:** There will be 3 ten to fifteen minutes quizzes the weeks before the scheduled exams. Each will consist in one, maximum two, problems similar to the ones you will encounter in the midterms and in the final. The main goal of the quiz is to provide you with examples of the challenges you will be facing during midterms and the final exams, and balance the mainly computational Homeworks of Webassign. The quizzes will be closed book and closed notes. Calculators are not allowed. Every formula you might need will be provided to you in the quiz.

**Exams:** You will be allowed to use a scientific calculator and one 8.5×11 sheet of **handwritten** notes for the exams. Graphing/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.

**Exam Dates:**

Exam I	Friday, January 27	in lecture
Exam II	Friday, February 24	in lecture
Final Exam Sec A:	Wednesday, March 15	8:30–10:20 a.m.
Final Exam Sec D:	Monday, March 13	8:30–10:20 p.m.

**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 two 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 an exam due to unavoidable, compelling, and well-documented circumstances (e.g., illness, transportation emergency), your final exam may be weighted more heavily. **Contact me immediately if one of these circumstances arises.**

**Overload:** The department policy is that no overload will be done on 300-level classes, no exceptions. Students hoping to get a seat in this section should sign up for Notify.UW, a free tool that sends notifications about course availability directly to students. All registration questions can be directed to the Math Student Services office by email at [advising@math.washington.edu](mailto:advising@math.washington.edu) (there is also the possibility of drop in advising for undergraduate students). Non-matriculated, aka non-degree seeking students will need to wait until January 10 to request entry.

**Academic misconduct:** Misconduct during class and exams it is a serious offense and it will not be tolerated in this class. Details of the University's policy on cheating can be found at <http://depts.washington.edu/grading/pdf/AcademicResponsibility.pdf>

**Counseling:** The UW Counseling Center provides brief counseling, assessment, referral, and crisis intervention services to currently enrolled University of Washington students. There is no charge for most of the services. See <http://www.washington.edu/counseling/> for more information.

**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](mailto:dso@u.washington.edu).