

# MATH 441 Linear Algebra

## Syllabus

Spring 2018, Course Reference Number 33477

**Class meeting time:** 12:00–12:50 am MWF

**Location:** Fenton Hall 117

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**Instructor:** Shida Wang

**E-mail:** swang9@uoregon.edu

**Office:** Deady Hall 1A

**Office hours:** 2:00–2:55 pm on Tuesdays,  
2:55–4:00 pm on Fridays

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### Important Course Webpages

We will use Canvas to post written homework, quiz solutions and other course material.

The address is

<https://canvas.uoregon.edu/courses/109925>.

Basic information about this course can be found at

<http://pages.uoregon.edu/swang9/courses/18SpringMATH441.htm>.

### Prerequisite

MATH 342; one from MATH 232, 262, 307

### Textbook

*Linear Algebra Done Right, Third Edition*, by Sheldon Axler

### Learning Outcomes

A successful student in this course should learn topics in abstract linear algebra, including vector spaces, bases, linear maps, dual spaces, eigenvalues, eigenvectors,

diagonalizability, inner product spaces and Jordan Form. Students will also continue to develop the ability to write and read proofs.

### **Students with Disabilities**

Students needing accommodations because of disabilities must contact the Accessible Education Center and notify their instructors. Information regarding Accessible Education Center can be found at <http://aec.uoregon.edu>.

### **Attendance Policy**

Attending and participating in every class are crucial to your success in this course. A student absent from class bears full responsibility for all material covered and announcements made in class.

The University of Oregon respects the right of all students to observe their religious holidays. Students who need to be absent from a class for religious obligation or observance reasons must make arrangements with instructors in advance using the Student Religious Accommodation Request Form, available at <http://registrar.uoregon.edu/calendars/religious-observances>.

### **Academic Misconduct**

The Student Conduct Code is at <http://policies.uoregon.edu/vol-3-administration-student-affairs/ch-1-conduct/student-conduct-code>. Students are prohibited from committing or attempting to commit any act that constitutes academic misconduct.

### **Grades**

Grades will be determined using the scores from the following assignments:

Homework	15%
Exam 1	25%
Exam 2	25%
Final Exam	35%
Quizzes	extra credit

### **Quizzes**

Most quizzes will not be announced. Missed quizzes cannot be made up. If you miss a quiz for any reason you will not receive the credit for this time.

## Exams

Exams 1 and 2 will be given during your regular class time and in your normal classroom. Exam 1 will be given in Week 4 and Exam 2 will be given in Week 8. The dates depend on class progress and will be announced beforehand.

The final exam will be given on Friday, June 15th. The location will be announced later.

Make-up exams are given only in very special circumstances such as medical emergencies. The **formal documentation** is required. If you have a schedule conflict, please discuss it with your instructor as soon as possible.

## Homework

There will be weekly written homework. They will be posted on Canvas as well as handed out in class. You are required to show your work for homework.

Prior to submitting the homework each week, you may not use any solutions manuals or use the Internet to search for previously written answers to the assigned problems.

The homework will be collected in class on Wednesdays. Late homework will not be accepted for any reason. Any assignment not turned in on time will receive a zero.

## Schedule

The following is an approximate schedule and is subject to change:

Week 1 (4/2, 4/4, 4/6)	1.A, 1.B, 1.C
Week 2 (4/9, 4/11, 4/13)	2.A, 2.B, 2.C
Week 3 (4/16, 4/18, 4/20)	3.A, 3.B, 3.C
Week 4 (4/23, 4/25, 4/27)	3.D, 3.E, 3.F, Exam 1
Week 5 (4/30, 5/2, 5/4)	4, 5.A
Week 6 (5/7, 5/9, 5/11)	5.B, 5.C
Week 7 (5/14, 5/16, 5/18)	6.A, 6.B, 6.C
Week 8 (5/21, 5/23, 5/25)	8.A, Exam 2
Week 9 (5/30, 6/1)	8.B, 8.C, 8.D
Week 10 (6/4, 6/6, 6/8)	10.A, 10.B, Review