

Syllabus

MATH 2184-10 – Linear Algebra I

Summer 2017

Instructor Information

Instructor Debdeep Bhattacharya
Office Hours MTWR, 2:20 pm - 03:20 pm, Phillips 720G
Email debdeepbh@gwu.edu

Course Information

Lecture Times MTWR, 12:30 pm - 2:00 pm
Room Monroe 114
Textbook *Linear Algebra and its Applications*, 4th Edition, David C. Lay

Tentative Course Coverage

Chapter	1	2	3	4	5	6	7
Section	1-5, 7-9	1-3	1-3	1-7	1-4	1-5	1-2

Learning Goals: At the end of the course the students should be able to

- Determine whether a linear system has solution and find the solution when it does
- Do simple computations involving matrix algebra
- Compute determinants and apply them in linear algebra and geometry
- Understand the concept of vector space
- Compute the eigenvalues and eigenvectors of linear transformations
- Understand the concept of orthogonality
- Understand symmetric matrices and quadratic forms

Homework

Homework will be assigned every day but **will not be collected**. Working on homework regularly will help you do better in the quizzes and the final.

In-class Quizzes

Based on the material covered in the previous week, you will have in-class quizzes on Mondays at the beginning of the class. Typically, each quiz will contain 2 questions. **The lowest score will be dropped.**

Date May 29, June 5, June 12, June 19, June 26
Time 20 mins

Group Work

On the days there are no quizzes, at the end of the class, you will have 15 mins to work on a group work that I shall assign. The groups will be formed randomly. The top 10 scores (out of 18) will be kept.

Final Exam

The final exam will be held on **Thursday, June 29, 2017**, in the classroom, during normal class hours. It is **cumulative**.

Grading Scheme

- Apart from mathematical accuracy, your grade on the test and the quizzes will depend on amount of work shown on paper. For incorrect answers, partial grades will be given based on whatever portion is correct. However, **no points will be given if you do not show any work, even though the answer is correct.**
- Your grades will be posted on Blackboard(<https://blackboard.gwu.edu>). It is your responsibility to verify that the grade posted on Blackboard is consistent with the grade given on the graded paper. You are responsible for holding on to the graded papers until the end of the course.
- Your final grade percentage consists of the following:

Group work	30%
In-class quiz	40%
Final exam	30%

- Based on your final grade, a letter grade will be assigned according to the following table:

Percentage	Letter Grade
90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

Class Policy

- **Calculators are not allowed** during any exam or quiz. You should be able to solve all the problems **without** the use of a calculator.
- You are **not** allowed to use books, notes or any other material during any exam or quiz.
- As a courtesy to others, cell phones, texting devices, laptops, and all other potentially distracting devices should be turned off during class.

Accommodation: Accommodations will be considered case by case according to university policies. All requests must be based on medical emergency, disability, religious observance, three finals on one day or other acceptable circumstances in accordance with university policies. To be considered, you must inform me your situation **by email** appropriately **in advance** and provide written documents from appropriate sources to substantiate your claim. I try to be fair and reasonable, but will deny late and/or inappropriate requests.

Following are the deadlines for email requests:

1. Make-up exam: one week before the exam date.
2. Exam with Disability Support Services: the DSS deadline. (You need to make arrangements with DSS yourself.)

In some extreme cases, the above deadlines may be extended. In order to get such an extension, you need to provide proofs to demonstrate that (1) there is an emergency situation which prevents you from sending the request before the deadline, and (2) you are contacting me about this situation at the earliest possible time.

Academic Integrity : Academic dishonesty is defined as cheating of any kind, including misrepresenting one's own work, taking credit for the work of other without crediting them and without appropriate authorization, and the fabrication of information. For the remainder of the code, see: <https://studentconduct.gwu.edu/code-academic-integrity>.

Support for Students

- **Disability Support Services:** Any student who may need an accommodation based on the potential impact of a disability should contact the DSS office at 202-994-8250 in the Rome Hall, Suite 102, to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to <https://disabilitysupport.gwu.edu>.
- **University Counseling Center:** The UCC (202-994-5300) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include: crisis and emergency mental health consultations; confidential assessment, counseling services (individual and small group), and referrals. For additional information please refer to: <https://counselingcenter.gwu.edu>.