

MATH 242
ELEMENTARY LINEAR ALGEBRA
SPRING 2018

BASIC INFORMATION

Class

- Tue. 1:30-2:50
- Thur. 1:30-2:50
- Hegeman 204

Instructor

- Ethan Bloch
- bloch@bard.edu
- Albee 317
- 758-7266

Office hours

- Mon. 4:00-5:30
- Wed. 2:00-3:30
- Thur. 10:30-12:00
- Or by appointment

Text

- Holt, Jeffrey, "Linear Algebra with Applications," 2nd ed., Macmillan, 2017

Website

- <http://faculty.bard.edu/bloch/math242/> (includes updated list of assignments)

Communications

- Urgent announcements may be sent out via campus email, so make sure you either check your Bard email or have it forwarded to your email address of choice.
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WORK FOR THE COURSE

Attendance

- It is expected that students attend all classes. Bring the text to each class.

Homework

- Homework will be assigned at the end of every class. Turn in the homework at the start of the next class. Late assignments will not be accepted, except in emergency situations.
- You are encouraged to work with other students in solving the homework problems. However, for the sake of better learning, as well as honesty, please adhere to the following guidelines:
 - › **Write up your solutions yourself.**
 - › **Acknowledge in writing anyone with whom you work and any assistance you receive.**
 - › **Acknowledge in writing any revisions of your work based upon solutions given in class.**
- Failure to indicate collaboration, assistance or sources will be construed as plagiarism.
- Your solutions should be written clearly and carefully, as described below.

Quizzes and Exams

- All quizzes and exams will be in class, closed book.

Quiz #1: Tue., Feb. 13

Quiz #2: Tue., Feb. 27

Midterm Exam: Thur., Mar. 15

Quiz #3: Tue., Apr. 10

Quiz #4: Thur., Apr. 26

Final Exam: Tue., May 22

WHAT IS MATH 242

- This course will cover the basics of linear algebra in n -dimensional Euclidean space, including vectors, matrices, systems of linear equations, determinants, eigenvalues and eigenvectors, as well as applications of these concepts to the natural, physical and social sciences.
 - The prerequisite for this course is Calculus II (Math 142), or permission of the instructor.
 - If you are unsure whether Math 242 is the appropriate course for you, please speak with the instructor.
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OFFICE HOURS

- If you have any problems with the course, or any questions about the material, the assignments, the quizzes, the exams or anything else, please see the instructor about it as soon as possible. If you cannot make any of the scheduled office hours, please make an appointment for some other time. To make an appointment, or to discuss anything, talk to the instructor after class, or send him an email message, or just stop by his office.
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GRADING

- Grades will be determined primarily by the quizzes and exams. Homework assignments and class participation will be taken into account positively, especially in cases of borderline grades.
 - Grades will be determined by work completed during the semester, except in cases of medical or personal emergency. There will be no opportunity to do extra credit work after the semester ends.
 - This course is graded using letter grades. If you want to take the course Pass/D/Fail, you must submit a request to do so to the Registrar's Office during the Add/Drop period.
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COMPUTERS & CALCULATORS

- For most of the course, pencil and paper will suffice.
 - A scientific calculator (which has trigonometric, exponential and logarithmic functions) will be needed for some problems. Free scientific calculator apps are available for smartphones, tablets and computers. Programmable and/or graphing calculators are not required.
 - We will occasionally use the free online computer algebra system Sage, as will be discussed in class.
 - **Electronic devices, including cell phones, tablets and laptop computers, may not be used during class, other than as calculators or to read the text.**
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IMPORTANT ACADEMIC DATES

Wed., Feb. 7: End of Drop/Add period

Wed., Feb. 28: End of Late Drop; last day to request Pass/Fail

Mon., Mar. 19 — Fri., Mar. 23: Spring break

Mon., Apr. 30 — Tue., May 1: Advising days (no classes)

Tue., May 1: Last day to withdraw from a class

Wed., May. 2: Senior projects due

Tue., May 22: Last day of classes

ACCOMMODATIONS

- Students with documented learning and/or other disabilities are entitled to receive reasonable classroom and testing accommodations. If you need accommodations, please adhere to the following guidelines:
 - **Discuss your needs with the instructor at the beginning of the semester.**
 - **Provide documentation as appropriate.**
 - **Contact the instructor at least one week prior to each quiz, exam or instance of accommodation.**
 - If you need to miss a class for any reason (sports team, religious holiday, etc.), it is your responsibility to contact the instructor and find out about the material and assignments you missed.
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RESOURCES

Mathematics Study Room

- The Mathematics Study Room is open Sunday--Thursday, 7pm–10pm, in RKC 111.
- The Mathematics Study Room is staffed by undergraduate mathematics majors who are available to answer your questions. You can go to the study room to work on your homework, and then ask for help as needed.

Tutors

- For additional help beyond office hours and the Mathematics Study Room, you can request to meet with a tutor. Contact the instructor for information.
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WRITING HOMEWORK

- Everyone makes honest mathematical mistakes, but there is no reason to get in your own way by writing your homework carelessly. Mathematics must be written carefully, and legibly, no differently from any other writing.
- Please adhere to the following guidelines when writing homework assignments:
 - Write your homework assignments neatly and clearly.
 - Distinguish between scratch work and the final draft. Expect to do scratch work on separate paper prior to writing the final draft.
 - Your final draft should stand on its own; check your solutions by reading them as if they were written by someone else.
 - For each problem, write every step of your calculation, and do so in a logical order from beginning to end. Numerical answers without justification, or equations on the page in random order, are not acceptable for the final draft.
 - Use verbal explanations whenever needed. Formulas and calculations are not always sufficient.
 - Be very careful with “=” signs. You must write “=” between things that are equal, and not write “=” between things that are not equal.
- Please see the instructor if you have questions about writing -- or doing -- the homework assignments. If you are not sure if you have written a homework assignment properly, bring a draft with you to office hours.