

Elements of Linear Algebra

MATH311-01 (Spring 2010)

Instructor: Dr. Muhammad Aslam

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Class Meetings: M W F 1:25 PM – 2:15 PM RAUB 206

Office Hours: M W F 9:30 AM – 10:00 AM & 12:10 PM – 1:20 PM
or by appointment.

Required Text:

Linear Algebra and Its Applications, Update 3/e by David Lay.

Textbook ISBN: 9780321287137

Course Description:

Systems of linear equations, determinant function, vector spaces, inner product spaces, linear transformations, eigenvalues, and eigenvectors are defined and properties of these structures are developed through proof-theoretic techniques. Applications to areas such as geometry, economics, physical science, social science are explored.

Prerequisite: MATH205.

Homework:

Students should do all of the assigned homework problems from each section. These problems will be assigned during the class. Answers to most of these problems are given in the back of the textbook. Homework problems will not be collected or graded. However, most of the questions in exams and quizzes will be selected from homework problems.

Quizzes:

There will be a quiz every week (except the exam weeks) during the semester. Each quiz will consist of problems, similar to the problems on recent homework assignments. Each quiz will be graded by on a

scale of 0 to 10. There will be a maximum possible total of 100 points for the quizzes. *Makeup quiz will be allowed in emergency cases only.*

Exams:

There will be two midterm exams (100 points each) and a comprehensive final (100 points). They are scheduled as follows:

1st Midterm Exam	Wednesday, March 03, 2010
2nd Midterm Exam	Friday, April 23, 2010
Comprehensive Final	Monday, May 03, 2010 (8:00 -9:50 AM).

Make-up exams will be given for excused absence and in emergency cases only. See your instructor and make necessary arrangements in advance. The make-up exams will not be the same as the regular exams. Furthermore, one make-up exam will be given for each exam and therefore, if you miss the make-up exam, you will automatically receive zero for that exam.

Evaluation:

There will be a total of 400 points. Grades will be based on quizzes (100 points), two midterm exams (200 points) and the comprehensive final (100 points).

Grading Scale:

372-400	A	292-307	C
360-371	A-	280-291	C-
348-359	B+	268-279	D+
332-347	B	240-267	D
320-331	B-	0-239	E
308-319	C+		

Classroom Etiquette:

- Cell phones must be turned off during class and exams. Thus cell phone calculators are prohibited.
- Talking is not allowed in class unless you have a question for your instructor, or you are responding to the instructor's question, or the instructor assigns group work in the class.
- Civility and respect create a safe and productive atmosphere in which students can achieve their educational goals. ***Disruptive behavior hinders the educational process and is unacceptable at Lock Haven University. Therefore, Instructor has the right to dismiss disruptive students from the class.***

Cheating:

Cheating is not tolerated. Students will receive an automatic failing grade in the course or even be expelled from this university for cheating. Do not copy from anyone else during a quiz/exam.

Accommodations for Disabilities:

Students with disabilities are encouraged to discuss requests for reasonable accommodations with the instructor at the beginning of the semester. In order for accommodations to be provided, your disability must be verified by the Director of the office for disability Services, 104 Russell Hall, (570) 484 2926.