INSTRUCTOR: Gus Rainsford EMAIL ADDR: rainsfor@math.rutgers.edu
OFFICE HOURS (unless announced otherwise): Every Monday 2:30-3:30 PM and by appointment on Wednesday from 2:30-3:30 PM in room 101 B in the Regina Heldrich Sciences Building on Douglass Campus.

PREREQUISITE: Calculus: Rutgers Math 152 or appropriate performance on the placement test in mathematics.
TEXT: Elementary Linear Algebra, A Matrix Approach, 2nd edition Author: Spence, Insel, Friedberg Publisher: Prentice Hall Publishing, ISBN 978-0-13-187141-0.

CALCULATOR/CELL PHONE: Calculators will not be permitted on exams. Cell phones and related devices are not permitted on exams. Cell phones should be on vibrate or turned off in class.
GRADING: Quizzes: 80 pts Exam 1: 100 pts
Exam 2: 100 pts Final: (comprehensive) 200 pts Total: 480 pts
EXAMS: Exams are closed book: no notes, or books etc are permitted. Calculators may NOT be used on exams. Midterm I is tentatively scheduled for Wednesday March 4. Midterm II is tentatively scheduled for Monday April 20. The Final Exam will be comprehensive and will be held on Thursday May 7, 8:00 AM - 11:00 AM. The room will be announced in class. Please note: Firm dates for Midterm Exams exams will be announced in class.
MISSED EXAMS: Makeup exams are not given. If you are absent on the day of an exam (for some acceptable reason), you must bring in a formal letter from the dean's office in order for your absence to be excused and your final count for the missed exam. You must contact either me, or the math office 4452390 within 3 days of the missed exam. For such an excused absence, the final will count for the missed exam. Missed exams, which are not excused, are recorded as a 0 grade.
CLASS PARTICIPATION: You are responsible for attending all class meetings. Poor attendance will be a factor in deciding borderline grade situations. You are responsible for all material covered in lecture as well as all announcements made in lecture. announcements regarding quizzes and exams, etc. will not be sent to students via email or phone. Make arrangements with other students to get lecture notes and any announcements in the event you miss lecture. Not knowing the day of an exam or quiz is NOT an acceptable excuse for missing the exam or quiz.
QUIZZES: Ten quizzes will be given throughout the semester. The dates for the quizzes will be announced in class. They will be given at the end of the class and will be based on the homework problems and class notes. Makeup quizzes will not be given under any circumstances. Missed quizzes are given a grade of zero. Since we realize that at times, you may have reason to miss class, only 8 out of 10 quiz grades will count toward your quiz score for the course. If you take all ten quizzes, we will count only the top 8 scores.

PRACTICE PROBLEMS: Students are encouraged to do all the problems as they are practice problems for exams and quizzes. Homework problems will not be collected or graded.

PLEASE NOTE: Practice problems may not be restricted to this list. Any additional problems that are assigned will be announced in lecture. (TF: indicates true-false questions)

## Homework/Practice Problems

1.1 1-31 odd, TF: 37-56, 71, 75, 79, 81, 82
$1.2 \quad 1-43$ odd TF: 45-63, 67, 68, 75, 76, 77, 78
$1.31-55$ odd TF: 57-76, 81
$1.41-43$ odd TF: 53-72 $74-78,81-84,87-91$
1.6 1-43, odd TF: 45-64 70,72
1.71 - 57 , odd TF: 63-82, 87,89
$2.15,7,9,11,13,15,17,19,22,23,25,27,29,31$, TF: 33-50
$2.31,3,9,11,13,17,19,23,25,29,31$ TF: 33-52, $54,59,61,67,69,71,83$
2.4 1,3,7, 9, 19, 27, 29 TF: 35-54, 64
$2.5 \quad 1,3,9$
$2.61,3,5,9,11,13$, TF: 33-41, $42,43,44,45,46$
$3.11,3,9,11,13,14,15,21,23,27,29,31,37,43$ TF: 45-63
$3.25,6,7,8,11,13,17,21,27,33$, TF: 39-58, $59,63,67,69-75$
$4.11,3,5,9,11,13,19,21,27,29,33$ TF: 43-51, 57-62, $67,69,72,73,74,78,81,83,85,89,93$
$4.21,3,5,7,17,19,21,25,27$ TF: $\mathbf{3 3 - 5 0}, 53,54,59,63,65$
$4.31,3,5,7,9,11,15,17,19,25,27$ TF: 41-57,59-60, $63,65,69,73-78,83$
5.1 1,3,7, 9, 13, 17, 23 TF: 41-46, 55-60 63, 64, 66, 67, 68, 69, 72, 73, 74
$5.21,5,9,11,13,15,17,19,21,41$ TF: 53-72, $77,79,81,85,86$
$5.31,3,5,7,11,15,17,19$ TF: 29-48, 49, 51, 55, 57, 61, 63, 65, 73, 77, 78, 81, 82, 83, 85
$6.13,5,7,9,11,13,15,17,25,29,33,37,43,49,51,53$ TF: 61-80, $95,97,98$
$6.21,3,7,9,13,17,21,25,29,33,37$ TF: 41-52, 55
$6.31,3,5,9,11,17,19,21$ TF: 33-56, $59,61,67,69,71,73,75$
$6.41,5,17,21$, TF: 28-32
$6.53,7,9,11$, TF: 17, 21-29
$6.63,5,13,15,17,19$, TF: 21-40

