SECTION 05 (3 Credits)   **SYLLABUS   MATH 250**   **SPRING 2010**

INSTRUCTOR: Gus Rainsford **EMAIL ADDR:** rainsfor@math.rutgers.edu

OFFICE HOURS (unless announced otherwise): Every Monday and Wednesday 3:30 - 4:30 PM in room 208 in Hill Center, and by appointment on Tuesday and Thursday 10:30 - 11:30 AM in room 208 in the Hill Center on Busch 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, cell phones and related devices are not permitted on exams. Cell phones and electronic devices should be 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, cell phones and electronic devices may NOT be used on exams. You may not leave the room during an exam except to hand in your exam. Once you leave the room, you may not come back in to continue the exam.

Midterm I is *tentatively* scheduled for Wednesday March 3. **Midterm II** is *tentatively* scheduled for Wednesday April 21. **The Final Exam** will be comprehensive and will be held on Friday May 7, 4:00 PM - 7:00 PM. The room will be announced in class. Please note: Firm dates for Midterm Exams exams will be announced in class.

MISSED EXAMS: If you miss taking an exam (for some sound documented reason), you must bring in a formal letter from the dean's office in order for your absence to be excused. For such an excused absence, the problems on the final exam which cover the material tested on the missed exam will be selected to be the replacement or "makeup" for the missed exam. **No other replacement or makeup exam will be given for any reason. NO EXCEPTIONS!** You must contact either me, or the math office 445 2390 within 3 days of the missed exam. **Missed exams, which are not excused, are recorded as a 0 grade.** If Rutgers cancels classes, (for snow storms etc), on the day of an exam, the exam will be given on the first day we meet when our class resumes.

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.

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SPECIAL NEEDS: If you require special accomodations during exams or in class, you must see the Rutgers Office of Disability Services and discuss your case with them. Requests for special accomodations will NOT be honored without a letter from the Rutgers Office of Disability Services requesting the accomodations. Such letters must be presented in a time frame sufficient to allow for the accomodation to be met. To insure your needs will be met this semester, please see the Dean of Disabilities Services ASAP. For more information go to http://disabilityservices.rutgers.edu

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　$1 - 43$ odd **TF: 45-63,** $67, 68, 75, 76, 77, 78$

1.3　$1 - 55$ odd **TF: 57-76,** 81

1.4　$1 - 43$ odd **TF: 53-72** $74 - 78, 81 - 84, 87 - 91$

1.6　$1 - 43$, odd **TF: 45-64** $70, 72$

1.7　$1 - 57$, odd **TF: 63-82,** $87, 89$

2.1　$5, 7, 9, 11, 13, 15, 17, 19, 22, 23, 25, 27, 29, 31,$ **TF: 33-50**

2.3　$1, 3, 9, 11, 13, 17, 19, 23, 25, 29, 31$ **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　$1, 3, 9$

2.6　$1, 3, 5, 9, 11, 13,$ **TF: 33-41,** $42, 43, 44, 45, 46$

3.1　$1, 3, 9, 11, 13, 14, 15, 21, 23, 27, 29, 31, 37, 43$ **TF: 45-63**

3.2　$5, 6, 7, 8, 11, 13, 17, 21, 27, 33,$ **TF: 39-58,** $59, 63, 67, 69 - 75$

4.1　$1, 3, 5, 9, 11, 13, 19, 21, 27, 29, 33$ **TF: 43-51, 57-62,** $67, 69, 72, 73, 74, 78, 81, 83, 85, 89, 93$

4.2　$1, 3, 5, 7, 17, 19, 21, 25, 27$ **TF: 33-50,** $53, 54, 59, 63, 65$

4.3　$1, 3, 5, 7, 9, 11, 15, 17, 19, 25, 27$ **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** $63, 64, 66, 67, 68, 69, 72, 73, 74$

5.2　$1, 5, 9, 11, 13, 15, 17, 19, 21, 41$ **TF: 53-72,** $77, 79, 81, 85, 86$

5.3　$1, 3, 5, 7, 11, 15, 17, 19$ **TF: 29-48,** $49, 51, 55, 57, 61, 63, 65, 73, 77, 78, 81, 82, 83, 85$

6.1　$3, 5, 7, 9, 11, 13, 15, 17, 25, 29, 33, 37, 43, 49, 51, 53$ **TF: 61-80,** $95, 97, 98$

6.2　$1, 3, 7, 9, 13, 17, 21, 25, 29, 33, 37$ **TF: 41-52** $, 55$

6.3　$1, 3, 5, 9, 11, 17, 19, 21$ **TF: 33-56,** $59, 61, 67, 69, 71, 73, 75$

6.4　$1, 5, 17, 21,$ **TF: 28-32**

6.5　$3, 7, 9, 11,$ **TF: 17, 21-29**

6.6　$3, 5, 13, 15, 17, 19,$ **TF: 21-40**