Math 581 – Advanced Numerical Analysis

Fall 2005

Monday and Wednesday, 19:00-20:15, JR212

Instructor: Dr. Rabia Djellouli

Office: Santa Susan Hall, Room SN121

Office Phone: (818) 677-5867 (24 hours voice mail)

Departmental Phone: (818) 677-2721

Email: Rabia.Djellouli@csun.edu

Office Hours: Monday, Wednesday, 10:00–11:00, or by appointment.

Textbook: No text book is required. However, the following books are suggested for reading.


Topics Covered: This course will be based on the following four cornerstones

- Matrix theory
- Direct solution methods for linear systems
- Iterative solution methods for linear systems
- Methods for computing eigenvalues

Exams: There will be three in-class tests (Tentative Schedule: September 28th, October 26th, and November 30th) and a comprehensive exam (Monday, December 12th, 2005, 20:00 – 22:00).

All exams are closed book. The lowest midterm score will be dropped. There will be no make up exams.

Homework: The due date for the Homeworks is specified on the day of the assignment. You can work in groups, but you must turn in your own write-up. Your lowest two homework
scores will be dropped. No late homework is accepted.

**Quizzes:** Quizzes may be introduced to help the class to keep-up.

**Programming:** There will be two programming assignments. You can use your preferred programming language. You can work in groups, but you must turn in your own write-up. Your lowest programming assignment score will be dropped.

**Grading Scheme:**
- 100 points – homeworks + quizzes
- 50 points – each programming assignment
- 100 points – each midterm
- 200 points – Final exam
- 600 points – Total Score

**Religious Conflicts:** Students who have conflict between religious observance dates and course examinations or assignments, please contact me before September 21st, 2005.