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Numerical Analysis I

Information Sheet

MATH 464
Autumn 1999

- **Room and Hours:**
 - **Lectures:** EE1 042 (Changed to this as of 9/24/99), 9:30-10:20, MWF,
 - **Quiz Section:** Sav 241 - 9:30-10:20 Th
- **Lecturer:** David L. Ragozin, e-mail  : rag@math.washington.edu
 - **Office:** Padelford C-337, Phone: 543-1148
 - **Office Hours:** Mon. 10:40AM-Noon, Fri. 1:00-2:00PM and by appointment.
 - Stop me after class to find a time if posted hours are not possible. Please do not hesitate to come to see me. It is much better to raise questions as soon as they occur, rather than get farther behind.
- **TA:** Elef Ghioulekas
 - **Office:** Padelford C-8(?),
 - **Office Hours:** To be announced .
- **Class Web Site:** <http://faculty.washington.edu/rag/CLASSES/m464>
- **Texts:**
 - *Numerical Analysis* (required) by L. W. Johnson & R. D. Riess . Available at Professional Copy (4200 University Avenue NE).
 - *Introduction to Scientific Computing with Matlab* (strongly recommended) by C. van Loan. Available at the University Bookstore.
- **Content:**
 1. Machine arithmetic
 2. Numerical solutions of systems of linear equations
 3. Numerical Solution of non-linear equations
 4. Polynomial interpolation and splines
 5. Introduction to numerical integration
- **Homework:**
 - Assignments due each week at the beginning of class each Friday, except for mid term week when homework is due on Thursday. Working the assigned problems is essential to learning the material. Homework *should be handed in on time*, as solutions will be available on the due date.
 - When you write up a homework or test solution, *your work should show that you understand the methods involved*. It is not enough to just give a numerical, or yes/no answer; explanations or supporting work should *always* be supplied.
- **Exams:**
 - There will be one midterm exam (1 hour) and a final(2 hours). For each exam in class, you will be allowed one hand written 8 by 11 sheet of notes, and a scientific calculator with no stored formulae or texts, but otherwise the exams will be closed book.
- **Projects:** There will be 4 projects:
 1. Oct 22 Tridiagonal linear systems

