Instructor: Robert Dillon

Office: Neill 324

Office Hours: W 9:00-11:00, and by appointment

Telephone: (509)335-5110

Email: dillon@math.wsu.edu

Web Page: http:www.math.wsu.edu/math/faculty/dillon

Textbook:
R. L. Burden and J. D. Faires,

Optional:

Outline: The purpose of this course is to introduce numerical methods for mathematical problems found in science and engineering. The topics include:

1. Review of calculus, computer arithmetic and roundoff errors.
2. Solution of one variable nonlinear equations.
3. Interpolation
4. Numerical integration and differentiation
5. Numerical solution of ordinary differential equations
6. Linear Systems
7. Approximation
8. Introduction to solution of PDEs

Grading: The course grade will be based on:

- Assignments (approximately one per week)– 40 
- Two In Class Midterm Exams – 17.5 % each
- Final Exam (comprehensive) – 25%

SCALE: A 92, A- 90, B+ 86, B 82, B- 80, C+ 76, C 72, C- 70, D+ 64, D 60. In practice, the cutoffs for the grades may be lower than the above numbers, but they will not be higher.

Midterm 1: TBA
Midterm 2: TBA
Final (comprehensive): Thursday, December 18, 1:00–3:00pm, Todd 276

IF YOU ARE ENROLLED IN MATH 548 or CPT S 530: you must complete a special project to be arranged with the instructor.
**Students with Disabilities**

Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All accommodations MUST be approved through the Access Center.

**WSU Safety Measures**

Washington State University is committed to maintaining a safe environment for its faculty, staff, and students. Please visit http://safetyplan.wsu.edu and http://oem.wsu.edu/emergencies to access the Campus Safety Plan and emergency information. You should also become familiar with the WSU Alert Site (http://alert.wsu.edu) where information about emergencies and other issues affecting WSU will be found.

**Academic Integrity**

I encourage you to work with classmates on assignments. However, each student must turn in original work. No copying will be accepted. Students who violate WSU’s Standards of Conduct for Students will receive an F as a final grade in this course, will not have the option to withdraw from the course and will be reported to the Office of the Dean of Students. Cheating is defined in the Standards for Student Conduct WAC 504-26-010 (3). It is strongly suggested that you read and understand these definitions:  
http://www.conduct.wsu.edu/Content/Documents/conduct/09-10