Computational Differential Equations (Mathematics 60790)
Spring Semester 2009
January 14, 2009

Instructor: Andrew Sommese (sommese@nd.edu)
291 Hurley Phone: 631-6498
Time/Place: MWF: 10:40 - 11:30; DeBartolo 244
Class Website: `www.nd.edu/~sommese/math09S790`

Office Hours: I am available after class and 12:30-1:30 Wednesdays in my office.

Examinations, homework, and grades: There will be two examinations worth 200 points total and a final examination worth 150 points. The examinations will be take home.

Homework is an integral part of the course. You are allowed and encouraged to use your notes and any library books while doing the homework.

Homework and tests will be project oriented.

Both examinations and the homework are conducted under the honor code. While cooperation in doing homework is permitted (and encouraged), copying is not.

Homework will be worth 100 points. Thus the total number of possible points for the semester is 450. The numerical break points for letter grades (A, A-, B+,...) will be based only on the test scores and the homework.

We will follow the paperback book K. Eriksson, D. Estep, P. Hansbo, and C. Johnson, Computational Differential Equations, paperback edition, Cambridge University Press, which is available at the Notre Dame Bookstore. Implementation of algorithms is of basic importance in discrete mathematics (and a lot of fun also). We will mainly use Matlab for this purpose.

Exam 1: Monday, February 16.
Exam 2: Monday, April 6.
Final: time and place will be announced.

The most recent version of this handout plus other useful materials can be found at `www.nd.edu/~sommese/math09S790`.