

**Course Syllabus**  
**MTH U532, Key # 54773**  
**Numerical Solutions of Differential Equations, Spring 2006**

**Time:** Sequence 3; MWR 10:30am – 11:35am 408 Ell  
**Text:** *Numerical Analysis II*, notes by Nishan Krikorian (from Gnomon Copy)  
**Optional Text:** *Numerical Analysis* by R. L. Burden and J. D. Faires  
**Instructor:** Dean Serenevy Office: 534 Nightingale Email: [dean@math.serenevy.net](mailto:dean@math.serenevy.net)  
Web page: <http://dean.serenevy.net/>  
**Office Hours:** TBA and by appointment  
**Satisfies:** Analysis core requirement (College of Arts & Sciences)

This course covers numerical problems in interpolation, differentiation, integration, Fourier transforms, and the solving of differential equations. Emphasizes practical methods and techniques. The heart of the course is a study of modern methods for finding numerical solutions of ordinary differential equations, both initial value problems and boundary value problems. Homework and projects are based on MATLAB.

Grades will be based on collected homework and programs, two take-home tests, and a written project.

If you have a concern about the course that can not be resolved by speaking with me, please contact the course coordinator (Nishan Krikorian, 557 LA, 617-373-5661, [nok@neu.edu](mailto:nok@neu.edu)).

**Days of interest:**

MON, 9 JAN	Classes Begin!
FRI, 13 JAN	Drop/Add ends for spring classes
MON, 16 JAN	Martin Luther King Jr.'s Birthday observed, no classes
FRI, 27 JAN	Last day to withdraw from classes
MON, 20 FEB	President's Day, no classes
6 MAR – 10 MAR	Spring Break, no classes
MON, 17 APR	Patriots' Day, no classes
WED, 19 APR	Last Day of Classes