Syllabus

Instructor:  Dr. F. X. Tanner
Office: 209 Fisher Hall
Phone: 487 2190
E-mail: tanner@mtu.edu
Web: http://www.math.mtu.edu/~tanner
Lectures: MWF 04:05–04:55, 231 Fisher Hall
Office Hours: MWF 01:05–01:55 pm and by appointment
Prerequisites: Introductory course in linear algebra, elementary differential equations and multivariable calculus, or consent of instructor.
Contents: Topics covered include:
- Ordinary differential equations and dynamical systems via a modern geometric approach including topics such as phase planes, limit cycles, bifurcations, Lorenz equations, fractals, strange attractors.
Computing: Access to one of the computing environments such as Matlab, MathCad, Mathematica, Maple etc. is required in order to do some of the homework assignments.
Course Grade: The course grade will be based on periodically assigned homework (50%) and a final exam (50%).
The scale is the straight percentage scale:
- A ≥ 90%, AB ≥ 85%, B ≥ 80%, BC ≥ 75%, C ≥ 70%, CD ≥ 65%, D ≥ 60%, F < 60%

Additional References:

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