CMSC 455: Numerical Computation
Tentative Syllabus

Instructor: Professor Samuel J. Lomonaco
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Required Text:

"Elementary Numerical Analysis,"
by Kendall Atkinson & Weimin Han
Publisher: John Wiley & Sons, Inc.
(Third Edition)

Course Topics:

Topics include Taylor Polynomials, Error & Computer Arithmetic, Rootfinding, Interpolation & Approximation, Numerical Integration & Differentiation, Solutions of Systems of Differential Equations, Advanced Numerical Linear Algebra, Ordinary Differential Equations, and Finite Difference Methods for PDEs.

Method of Evaluation:

Homework: 25% ; Exam 1: 25% ; Exam 2: 25%; Final Exam: 25%.

All exams including the Final exam will be with closed books, closed notes, and open mind.

Late homework will not be accepted. Exams will be given only at the scheduled times. No make up exams. Exceptions to this policy may be made in cases of extreme hardship.

Academic Conduct:

By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal.

To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory.