Boston University, College of Engineering ENG ME 566: Advanced Engineering Mathematics

Course Information: Fall 2014

Meeting Details:

Tuesday and Thursday 2:00 - 4:00 pm SOC B59, 96-100 Cummington Street

Instructor:

Professor Perkins

Office: 15 St. Mary's Street, Room 146

Phone: (617) 353–4991 Email: perkins@bu.edu

Course Website:

Blackboard Learn

Office Hours:

Tuesday/Thursday 12:30-1:30 pm (email me to confirm) and by appointment

Textbook:

Erwin Kreyszig, Advanced Engineering Mathematics (10th ed.), Wiley, 2011

Problem Sets:

Problem sets will be 32% of course grade. Assigned approximately weekly.

Exams:

Midterm worth 25% of course grade. Final worth 33% of course grade. Midterm date to be determined. Final date (tentative): Tuesday, December 16, 2014, 3:00 pm - 5:00 pm

Attendance and Participation:

Attendance/Participation in class will be 10% of course grade.

Reference Texts:

- 1. "Advanced Engineering Mathematics," Lopez, Addison Wesley.
- 2. "Advanced Engineering Mathematics," Greenberg, Prentice Hall.
- 3. "Advanced Engineering Mathematics," Zill and Cullen, Jones and Bertlett.

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Course Topics: Fall 2014

- Review of Calculus Methods
- Transform Methods (Laplace, Fourier, z)
- Matrices and Linear Systems
- Vector Algebra and Calculus
- Difference and Differential Equations
- Introduction to Complex Analysis
- Numerical Analysis
- Mathematical Techniques in Optimization Theory