

EE 3300 – Advanced Engineering Mathematics – Spring 2005

Instructor: John P. Fonseka

Office: ECSN 4.906

Office Hours: 3.30 pm- 4.30 pm, TR

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Course Objectives: To study advanced mathematical topics for engineering. Topics emphasized are vector calculus and complex variables

Pre-requisites: Math 2420 (Differential Equations with Applications) or equivalent

Text: Mathematical Methods in the Physical Sciences, Second Edition, by Mary L. Boas, John Wiley and Sons, 1983

Course Outline: (subject to variations as needed)

Chapter 1: Infinite Series, Power Series (Review)

Chapter 4: Partial Differentiation (Review)

Chapter 5: Multiple Integrals, Applications of Integration (Early part is review)

Chapter 6: Vector Analysis

Chapter 2: Complex Numbers

Chapter 14: Functions of a Complex Variable

Grading Policy:

First Exam, Tuesday, February 08 – 25%

Second Exam, Thursday, March 24 – 30%

Final Exam, Thursday, April 28, 8.00-10.30 am - 35%

Homework Quizzes – 10%