Integration, Differential Equations, and Approximiation 21-122
APEA, 2006 — MTWRF 10:30-11:50 — SH 214

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Office Hours: MTWR, 1-2, PPB 342 (or by appointment)

Text: *Calculus, Early Trancendentals, 5e*, by James Stewart
Course Website: http://www.math.cmu.edu/~doffner/teaching/122/index.html

The **Prerequisite** for 21-122 is Differential and Integral Calculus (21-120) or an equivalent first-semester calculus course.

Outline of Schedule and Topics:
Week 0: Review of First-Semester Calculus
Stewart, Chapters 1-6
Week 1-2: Techniques and Applications of Integration
Stewart, Chapters 7-8
Week 3-4: Sequences and Series
Stewart, Chapter 11
Week 5: Differential Equations
Stewart, Chapters 9, 17

Homework will be assigned twice weekly, and is considered an important part of the course. Discussion of the assignments with anyone and everyone is encouraged, but all submitted work must be written independently. In particular, you are not permitted to see the actual pages that another student is submitting. Homework is due at the beginning of class, and late homework will not be accepted.

Tests: There will be two major in-class tests, tentatively scheduled for July 14 and July 28, and two minor tests, tentatively scheduled for June 30 and August 4. There will be multiple brief quizzes throughout the course.

Grades: You will be permitted to drop 2 HW grades and a couple of quiz grades. Your grade will be determined by the following formula:
Homework: 20%, Major Tests: 40% (Each test 20 %), Minor Tests: 20%, Quizzes: 20%

Academic Honesty: The standards of academic honesty as stated in the Student Handbook will be strictly enforced.

Special Needs: If you require any special accommodations, please let me know well in advance.