

Integration, Differential Equations, and Approximation 21-122
Summer Session 2, 2006 — MTWRF 10:30-11:50 — SH 214

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Office Hours: MTWR, 12:30-1:30, PPB 342 (or by appointment)

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Office Hours: MTW, 3:30-4:30, PPB 342 (or by appointment)

Optional Problem Session: Thursday, 3:30-4:30, Wean 6423

Text: *Calculus, Early Transcendentals, 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:

Weeks 1-2: Techniques and Applications of Integration

Stewart, Chapters 7-8

Weeks 3-4: Sequences and Series

Stewart, Chapter 11

Weeks 5-6: 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 three in-class tests, tentatively scheduled for July 14 and July 28, and August 11. 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: 60% (Each test 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.