Calculus Part 2 (Equivalent to Calculus II for most colleges)

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Instructor: Dr. Dale W. Callahan

Textbooks and Calculators

Required
1. Calculus: Concepts and Contexts
2nd Edition, James Stewart
Brooks/Cole Publishing, ©2001
ISBN: 0534377181

2. Graphing Calculator such as a TI-85 Here is a buyers guide for calculators.
[Better is a CAS (Computer Algebra System Calculator) such as a TI-89, HP 40G, Casio FX 2.0.]

Optional
1. Student Solutions Manual for Stewart's Single Variable Calculus: Concepts and Contexts (with CD), 2nd 2nd Edition, Jeffery A. Cole Anoka-Ramsey Community College
Published by Brooks/Cole, © 2001
ISBN: 0-534-37923-0

2. How to Ace Calculus: The Streetwise Guide by Colin Adams, Joel Hass and Abigail Thompson

Grading (per semester)
75% Three tests (~25%each)
25% Semester final exam

Sections to Cover

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4.9	**Antiderivatives**	1, 5, 7, 9, 11, 13, 15, 19, 23, 25, 29, 35, 43, 45
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5.2	**The Definite Integral**	1, 3, 5, 7, 9, 17, 19, 21, 23, 25, 29, 31, 37, 39, 41, 43, 47
5.3	**Evaluating Definite Integrals**	1, 3, **4**, 5, 7, **8**, 9, 11, 13, 15, 17, 19, 21, 25, 29, 35, 39, 47, **50**, 51, 57, **62**
5.4	**The Fundamental Theorem of Calculus**	1, 3, 5, 7, 9, 15, 17, 19, 27
5.5	**The Substitution Rule**	1, 3, 5, 7, 13, 15, 21, 27, 29, 33, 37, 41, 45, 51, 53, 57, 59
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5.8	**Integration Using Tables and CAS**	1, 3, 7, 11, 15, 17 CAS required (25, 29, 31, 33)
5.9	**Approximation Integration**	1, 3, 5, 13, 23, **24**, 27
5.10	**Improper Integrals**	1, 3, 5, 11, 15, 21, 29, 33, 41, 45, 53, **56**, 61
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8.7	**Taylor and Maclaurin Series**	1, 3, 5, 7, 9, 13, 17, 19, 21, 27, 31, 35, 39, 43, 47, 51
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