



**MATH 151:** Calculus I

**Textbook:** Essential Calculus, Early Transcendentals, James Stewart

**Instructor:** George Voutsadakis

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**Office hours:** MTWRF 9:00-9:50

**From the Catalog:** Limits, continuity and inverse functions. Logarithmic and exponential functions. Differentiation and applications of the derivative. L' Hôpital's Rule. Inverse trigonometric functions. Integration and the definite integral.

**Prerequisites:** high school mathematics that includes two years of algebra, one year of plane geometry and one-half year of trigonometry and equivalent/satisfactory score on ACT or Placement Exam **or** MA140 with a grade of C or better.

**Course Objectives:**

The students taking the class should be able to: understand geometrically and analytically the concepts of limit, continuity and derivative, be able to apply the rules for computing derivatives, use implicit differentiation and apply it to computing related rates, study graphs of functions in terms of monotonicity and concavity using derivatives, understand antiderivatives, how to compute them and how to use them to determine areas and use the Fundamental theorem of Calculus to compute definite integrals.

**SYLLABUS FOR FALL 2006: MTRF 1:00 - 1:50**

Week	Date	Monday	Tuesday	Thursday	Friday
1	9/4	BREAK	BREAK	1.1	1.2
2	9/11	1.3	1.4	1.4	1.5
3	9/18	1.5	1.6	Review	EXAM 1
4	9/25	2.1	2.2	2.2	2.3
5	10/2	2.4	2.5	2.5	2.6
6	10/9	2.7	2.8	Review	EXAM 2
7	10/16	3.1	3.2	3.2	3.3
8	3.4	3.5	3.5	3.6	3.6
9	10/30	3.7	4.1	Review	EXAM 3
10	11/6	4.2	4.3	4.4	4.4
11	11/13	4.5	4.5	4.6	4.7
12	11/20	Review	EXAM 4	BREAK	BREAK
13	11/27	5.1	5.2	5.3	5.3
14	12/4	5.4	5.4	5.5	5.5
15	12/11	6.1	6.1	Review	Review

**Final Exam:** Week of December 8-12. Please Check!