

Calculus I
(MATH 1525)
Spring 2009

Professor: Dr. Paul Bailey

Office: WIL 228

Office Hours: MWF 10 am to 11 am; MTWRF 12 noon to 1 am; TTh 1 pm to 2 pm

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Book: *Thomas' Calculus*, Weir, Hass, Giordano, 11th edition

Grade Components

Projects: 20%

Quizzes: 30%

Midterms: 30%

Final: 20%

Homework exercises from the textbook will be assigned daily to be completed before the next class. These will not be collected, but they need to be done in a timely fashion to keep up with the course. Questions regarding the homework will be addressed at the beginning of the next lecture.

Occasional projects consisting of sets of challenge problems will be handed out, to be thought about and completed outside of class. Mathematics should be written neatly, and *in complete sentences*.

There will be a quiz almost every Friday. No makeup quizzes will be given *unless arrangements are made before the day of the quiz*.

There will be two midterm examinations and one final examination. The final examination is scheduled for Wednesday, May 6, 2008, at 11:00 AM.

The use of calculators, cell phones, laptop computers, and all electronic devices is prohibited during quizzes and examinations.

Course Outline

Week	Beginning	Topic	Sections
Week 0	Jan 12	Sets of Numbers	Notes
Week 1	Jan 19	Real Line and Cartesian Plane	1.1, 1.2, 1.3
Week 2	Jan 26	Real Valued Functions	1.4, 1.5, 1.6
Week 3	Feb 2	Polynomial Theory	Notes
Week 4	Feb 9	Limits	2.1, 2.2, 2.3
Week 5	Feb 16	Continuity	2.4, 2.5, 2.6
Week 6	Feb 23	Differentiation	3.1, 3.2, 3.4
Week 7	Mar 2	Differentiation	3.5, 3.6, 3.7
Week 8	Mar 9	Extrema	4.1, 4.2, 4.3
Week 9	Mar 16	Inflection	4.4, 4.5, 4.6
Week 10	Mar 23	Spring Break	
Week 11	Mar 30	Antiderivatives	4.8, 5.1, 5.2
Week 12	Apr 6	Integration	5.3, 5.4, 5.5
Week 13	Apr 13	Substitution	5.6
Week 14	Apr 20	Logarithmic Functions	7.1, 7.2, 7.3, 7.4
Week 15	Apr 27	Hyperbolic Functions	7.7, 7.8