

**Calculus II**  
(MATH 1545)  
Spring 2007

**Professor:** Dr. Paul Bailey

**Office:** WIL 228

**Office Hours:** MTWRF 10 am to 11 am; TR 1 pm to 2 pm

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**Book:** *Thomas' Calculus*, 11<sup>th</sup> edition, by Thomas, Finney, Weir, and Giordano

**Grade Components**

**Problems:** 25%

**Quizzes:** 25%

**Midterms:** 25%

**Final:** 25%

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 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 has been scheduled by the university for Wednesday, May 9, 2007, at 10:00 a.m.

Calculators can be detrimental to the study of mathematics. The use of calculators, cell phones, laptop computers, and all electronic devices is strictly prohibited during quizzes and examinations, and is discouraged while studying. You may use an abacus.

**Course Outline**

Week	Beginning	Topic	Sections
Week 0	Jan 17	Review	1.1-5.6
Week 1	Jan 22	Volumes of Revolution and Lengths of Plane Curves	6.1, 6.2, 6.3
Week 2	Jan 29	Areas of Revolution and Work	6.4, 6.5, 6.6
Week 3	Feb 5	Inverse, Logarithmic, and Exponential Functions	7.1 - 7.5
Week 4	Feb 12	Inverse Trigonometric and Hyperbolic Functions	7.7, 7.8
Week 5	Feb 19	Integration Techniques	8.1, 8.2, 8.3
Week 6	Feb 26	Integration Techniques	8.5, 8.5, 8.8
Week 7	Mar 5	Differential Equations	9.1, 9.2, 9.3
Week 8	Mar 12	Conic Sections	10.1-10.4
Week 9	Mar 19	Polar Coordinates	10.5-10.8
Week 10	Mar 26	SPRING BREAK	
Week 11	Apr 2	Sequences and Series	11.1, 11.2
Week 12	Apr 9	Convergence Tests	11.3-11.6
Week 13	Apr 16	Power Series	11.7-11.10
Week 14	Apr 23	Fourier Series	11.11
Week 15	Apr 30	Review	6.1-11.11