

Calculus II
(MATH 1545)
Spring 2006

Professor: Paul Bailey

Office: WIL 228

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

Web Site: <http://www.saumag.edu/pbailey>

Email: plbailey@saumag.edu

Book: *Thomas' Calculus*, 11th 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.

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. Instead, optional extra credit worksheets will be posted on the web site. These worksheets will replace lower or vacant quiz grades.

There will be two midterm examinations and one final examination. The final examination has been scheduled by the university for Wednesday, May 10, 2006, at 11:00 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.

Course Outline

Week	Beginning	Topic	Sections
Week 0	Jan 19	Review	
Week 1	Jan 23	Volumes of Revolution and Lengths of Plane Curves	6.1, 6.2, 6.3
Week 2	Jan 30	Moments, Areas of Revolution, and Work	6.4, 6.5, 6.6
Week 3	Feb 6	Inverse, Logarithmic, and Exponential Functions	7.1 - 7.5
Week 4	Feb 13	Inverse Trigonometric and Hyperbolic Functions	7.7, 7.8
Week 5	Feb 20	Integration Techniques	8.1, 8.2, 8.3
Week 6	Feb 27	Integration Techniques	8.5, 8.5, 8.8
Week 7	Mar 6	Differential Equations	9.1, 9.2, 9.3
Week 8	Mar 13	Conic Sections	10.1-10.4
Week 9	Mar 20	SPRING BREAK	
Week 10	Mar 27	Polar Coordinates	10.5-10.8
Week 11	Apr 3	Sequences and Series	11.1, 11.2
Week 12	Apr 10	Convergence Test	11.3-11.6
Week 13	Apr 17	Power Series	11.7-11.10
Week 14	Apr 24	Fourier Series	11.11
Week 15	May 1	Review	10.1 - 10.3