

**Text:** *University Calculus* by Hass, Weir, and Thomas, ISBN:0-321-35014-6.

**Calculator:** You are required to have a graphing calculator for this course. The TI-86 is recommended, but the TI-84, 85, 89, and 92 are all sensible choices.

**Prerequisite Policy:** Students who have not completed Math 106 with a grade of C or better are not allowed to take Math 107 and will be dropped from the class. If you have completed the equivalent prerequisite elsewhere, you should contact the Mathematics Department immediately.

**Advanced Placement:** If this is the first college mathematics course that you have attempted, you may be eligible for 5 hours of credit for Math 106, provided that you earn a P, or a C or better in this class this semester. To be considered for this credit, you should register with the department by the end of the third week of classes, i.e., by **Friday, January 26**.

**Schedule:** A tentative schedule of topics, exams, and assignments is given below. This is a guide and your instructor may depart from this schedule. **It is your responsibility to keep track of schedule changes.** Further, you are responsible for reading the relevant sections of the text before the class in which they are covered and for reviewing the material, including doing any assigned problems, before the next class meeting. You are responsible for the **entire content of each section listed**, unless your instructor announces otherwise.

**Math Resource Center:** Feel free to use the Math Resource Center in Avery 013B for questions or as a meeting place to work on group projects. Hours for the MRC are MTWTh 12:30-8:30 pm, F 12:30-2:30 pm, Su 1:00-5:00 pm.

**Gateway Exam:** This seven question exam covers techniques of integration. You are **not** allowed the use of a calculator or notes. You must answer six of the seven questions exactly right to get full credit; no partial credit is given. If you do not pass the gateway exam when it is first given (Thursday February 8), then you can retake the gateway exam online at the Mathlab (Avery 018) or the College Testing Center (Burnett 127). A picture ID is required. You can only take the exam once per day. The deadline for completing the gateway exam is **Friday, March 2**.

**Final Exam:** The final exam is on **Tuesday, May 1 from 6 to 8 pm**. The room will be announced during the final week of class. Calculators will be allowed on the final exam, as will a **single 3" by 5"** card of notes. Arrange your personal and work schedules in order to take the exam at the scheduled time. Contact the Mathematics Department if you have conflicting exams; you may be allowed to take an alternate final, always given after the regular final.

**Grade Change/Drop Deadlines:**

**Friday, January 19, 2007:** Last day to drop Math 107 with no record

**Friday, March 2, 2007:** Last day to change to/from Pass/No Pass

**Friday, April 6, 2007:** Last day to withdraw from Math 107 with a grade of "W"

Anticipated Weekly Schedule		
Date	Section	Topic
Jan 8-12	5.4	The Fundamental Theorem of Calculus
	5.5	Indefinite Integrals & Substitution
	7.1	Integration by Parts
Jan 16-19	7.2	Trigonometric Integrals
	7.3	Trigonometric Substitutions
Jan 22-26	7.4	Integration of Rational Functions using Partial Fractions
	7.4/7.5	Partial Fractions & Integral Tables
	7.5	Integral Tables and Computer Algebra Systems

Date	Section	Topic	
Jan 29-Feb 2	7.6	Numerical Integration	
	7.7	Improper Integrals	
	6.1-6.3	Review of Volumes and Arc Length	
Feb 5-Feb 9	6.5	Exponential Change and Separable Differential Equations	
	6.6	Work	
	6.7	Moments and Centers of Mass	
Feb 12-Feb 16	8.1	Sequences	
		<i>Review for Exam 1</i>	
		<b>Exam 1</b>	
	8.2	Infinite Series	
Feb 19-Feb 23	8.3	The Integral Test	
	8.4	Comparison Tests	
	8.5	The Ratio and Root Tests	
Feb 26-Mar 2	8.6	Alternating Series, Absolute and Conditional Convergence	
		<b>Project Assigned</b>	
		8.7	Power Series
		8.8	Taylor and Maclaurin Series
		<b>Deadline for passing the Gateway Exam.</b>	
Mar 5-Mar 9	8.8/8.9	Taylor Series	
	8.9	Convergence of Taylor Series	
		<i>Catch up day</i>	
Mar 10-Mar 18		<b>Spring Break—no classes</b>	
Mar 19-Mar 23	8.10	The Binomial Series	
		<b>Review for Exam 2</b>	
		<b>Exam 2</b>	
	9.1	Polar Coordinates	
Mar 26-Mar 30	9.2	Graphing in Polar Coordinates	
	9.3	Areas and Lengths in Polar Coordinates	
	10.1	Three-Dimensional Coordinate Systems	
Apr 2-Apr 6	10.2	Vectors	
		<b>Project Due</b>	
		10.3	The Dot Product
		10.4	The Cross Product
Apr 9-Apr 13	10.5	Lines and Planes in Space	
	11.1	Vector Functions and Their Derivatives	
	11.2	Integrals of Vector Functions	
Apr 16-Apr 20	11.3	Arc Length in Space	
		<b>Review for Exam 3</b>	
		<b>Exam 3</b>	
	11.4	Curvature of a Curve	
Apr 23-Apr 27	11.5	Tangential and Normal Components of Acceleration	
		Catch up & Review for Final Exam	
		Review for Final Exam	

**Departmental Grading Appeals Policy:** If you believe your grade was assigned incorrectly or capriciously, then appeals may be made to (in order) the instructor, the department chair, the department grading appeals committee, the college grading appeals committee, and the university grading appeals committee.