Math 107 Syllabus Spring 2007

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 Daily Schedule

Date	Section	Topic
Jan 8 M	5.4	The Fundamental Theorem of Calculus
Jan 10 W	5.5	Indefinite Integrals & Substitution
Jan 12 F	7.1	Integration by Parts
Jan 15 M	**Martin Luther King, Jr. Day—no class**	
Jan 17 W	7.2	Trigonometric Integrals
Jan 19 F	7.3	Trigonometric Substitutions
Jan 22 M	7.4	Integration of Rational Functions using Partial Fractions
Jan 24 W	7.4/7.5	Partial Fractions & Integral Tables
Jan 26 F	7.5	Integral Tables and Computer Algebra Systems

Date	Section	Topic
Jan 29 M	7.6	Numerical Integration
Jan 31 W	7.7	Improper Integrals
Feb 2 F	6.1/6.2/6.3	Review of Volumes and Arc Length
Feb 5 M	6.5	Exponential Change and Separable Differential Equations
Feb 7 W	6.6	Work
Feb 8 Th		**Paper Gateway Exam**
Feb 9 F	6.7	Moments and Centers of Mass
Feb 12 M	8.1	Sequences
Feb 14 W	**Review for Exam 1**	
Feb 15 Th	**Exam 1**	
Feb 16 F	8.2	Infinite Series
Feb 19 M	8.3	The Integral Test
Feb 21 W	8.4	Comparison Tests
Feb 23 F	8.5	The Ratio and Root Tests
Feb 26 M	8.6	Alternating Series, Absolute and Conditional Convergence
Feb 27 T		**Project Assigned**
Feb 28 W	8.7	Power Series
Mar 2 F	8.8	Taylor and Maclaurin Series
		Deadline for passing the Gateway Exam.
Mar 5 M	8.8/8.9	Taylor Series
Mar 7 W	8.9	Convergence of Taylor Series
Mar 9 F	Catch up day	
Mar 11-18	**Spring Break—no classes**	
Mar 19 M	8.10	The Binomial Series
Mar 21 W	**Review for Exam 2**	
Mar 22 Th	**Exam 2**	
Mar 23 F	9.1	Polar Coordinates
Mar 26 M	9.2	Graphing in Polar Coordinates
Mar 28 W	9.3	Areas and Lengths in Polar Coordinates
Mar 30 F	10.1	Three-Dimensional Coordinate Systems
Apr 2 M	10.2	Vectors
Apr 3 T		**Project Due**
Apr 4 W	10.3	The Dot Product
Apr 6 F	10.4	The Cross Product
Apr 9 M	10.5	Lines and Planes in Space
Apr 11 W	11.1	Vector Functions and Their Derivatives
Apr 13 F	11.2	Integrals of Vector Functions
Apr 16 M	11.3	Arc Length in Space
Apr 18 W	**Review for Exam 3**	
Apr 19 Th	**Exam 3**	
Apr 20 F	11.4	Curvature of a Curve
Apr 23 M	11.5	Tangential and Normal Components of Acceleration
Apr 25 W	Catch up & Review for Final Exam	
Apr 27 F	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.