

SYLLABUS

MATHEMATICS 125.56512

Basic Calculus

Spring 2004

MWF 1:25-2:15, Ayres 316

Instructor:	George Butler
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Office Hours:	TBA

Course Description: Calculus of algebraic, exponential, and logarithmic functions, with applications. For students not planning to major in the physical sciences, engineering, mathematics, or computer science.

Prerequisite: Two years of algebra and one year of geometry in high school plus satisfactory placement score, or Math 119 or 130.

Course Objectives: This course is designed to review topics in algebra including exponential and logarithmic functions and to introduce the concepts and techniques of differential and integral calculus and apply them to solve business, economics, life science and social science problems. Graphing calculators will be used as tools to help the student understand concepts and to calculate numerical solutions to problems.

Textbook: **Applied Calculus**, 2nd Edition, by Hughes-Hallett, Gleason, et al. **A Graphing Calculator is required.** The TI-86 is highly recommended. The math department provides support for the TI-86. The TI-89 and -92 and cell phone calculators are not permitted for use on exams.

Method of Teaching: During class I will be introducing new topics, presenting examples, demonstrating problem-solving techniques and answering questions. At times I may ask you to participate by going to the board. If you need additional help, you may see me during office hours, or you may go to the Math Tutorial Center in Ayres 322 (hours TBA).

Grading scale:	
900-1000	A
870- 899	B+
800- 869	B
770- 799	C+
700- 769	C
600- 699	D
0- 599	F

Grade composition:	
Three exam grades (200 pts each)	600
Five highest quiz grades (20 pts each)	100
Comprehensive final	300
Class participation bonus	+100
Total	1000

Class participation includes asking questions, answering my questions, and working problems on the board. If you consistently attend class, ask questions, etc., I will add 50 points to your final grade at the end of the term. Additionally, you will receive 10 points on your final grade every time you work a problem on the board (up to a maximum of 5 problems).

Attendance Policy: Attendance is highly recommended. There will be a quiz every week or so for a total of at least ten quizzes. There will be no make-up quizzes - a missed quiz will result in a score of 0 on that quiz. Everyone is allowed one free makeup exam. For any additional makeup exams, I will need to see a doctor's note or obituary notice. I will try to schedule my office hours at times that are convenient for everyone; please try to arrange for makeup exams during my office hours.

Disability Accommodations: Students who have a disability that require accommodation(s) should make an appointment with the Office of Disability Services (974-6087) to discuss their specific needs as well as schedule an appointment with me during my office hours.

Academic Standards of Conduct (from "Hilltopics: Student Handbook," 2003-2004): All students are expected to abide by the University Honor Statement. In mathematics classes, violations of the honor statement include copying another person's work on any graded assignment or test, collaborating on a graded assignment without the instructor's approval, using unauthorized "cheat sheets" or technical devices such as calculators, cell phones or computers for graded tests or assignments, or other infractions listed in "Hilltopics". These violations are serious offenses, subject to disciplinary action that may include failure in a course and/or dismissal from the University. The instructor has full authority to suspend a student from his/her class, to assign an "F" in an exercise or examination, or to assign an "F" in the course. The instructor shall give written notification (countersigned by the department head) of the penalty and the route of appeal to the student. Students who contest the penalty should first appeal to the instructor, then the Head of the Mathematics Department. If the student is unable to resolve the penalty with the instructor and department head, he/she may appeal to the Academic Review Board within 7 calendar days of receiving written notice of the penalty. See "Hilltopics" for more complete information.

Course Outline		
Monday	Wednesday	Friday
Jan 12: 1.3	Jan 14: 1.4	Jan 16: 1.5
Jan 19: MLK Holiday	Jan 21: 1.6	Jan 23: 1.7
Jan 26: 1.8	Jan 28: 1.9	Jan 30: 1.10
Feb 2: Chapter 1: Focus on Theory	Feb 4: Chapter 2: Focus on Theory	Feb 6: 2.1
Feb 9: 2.2	Feb 11: 2.3	Feb 13: 2.4
Feb 16: 2.5	Feb 18: 3.1	Feb 20: Exam on Chapters 1, 2
Feb 23: 3.2	Feb 25: 3.3	Feb 27: 3.4
Mar 1: 3.5	Mar 3: 4.1	Mar 5: 4.2
Mar 8: Spring Break	Mar 10: Spring Break	Mar 12: Spring Break
Mar 15: 4.3	Mar 17: 4.4	Mar 19: 4.5
Mar 22: 4.6	Mar 24: 4.7	Mar 26: Exam on Chapters 3, 4
Mar 29: 5.1	Mar 31: 5.2	Apr 2: 5.3
Apr 5: 5.4	Apr 7: 5.5	Apr 9: Spring Recess
Apr 12: 7.1	Apr 14: 7.2	Apr 16: 7.3
Apr 19: 7.4	Apr 21: 6.1	Apr 23: Exam on Chapters 5, 7
Apr 26: 6.2	Apr 28: 6.3	
May 3: Comprehensive Final		