CALCULUS 1 MTWF 8:00-8:50AM SPRING 2006 HICKOK 102/307

Instructor:	Jonathan White
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Office:	Hickok 206A
Office Hours:	9:00-9:50 MWF, 2:00-2:50 MW, and by appointment
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Text:	*Calculus, Early Transcendentals*, 5th Edition, by James Stewart, Brooks/Cole.
Problem Sets and Quizzes:	Assorted Problem Sets will be given throughout the term to supplement class work. Many of these will benefit from the use of the software package *Mathematica*, which is available on the computers in the labs in Hickok and Peterson Halls. Some assignments will be made through the WebWork system, and quizzes will also be given frequently. Combined these will be worth 200 points (25% of the final grade).
Exams:	There will be four exams during the course of the semester. The dates of these are indicated in the schedule on the back side of this sheet. These exams will be worth 100 points (12.5% of the final grade) each. The final exam will be held at the scheduled time during finals week and will be worth 200 points (25% of the final grade).
Grading:	Grading will approximately follow a 90% A, 80% B, 70% C, 60% D scale.
Makeups:	Makeups for exams will generally be allowed only under extenuating circumstances, with documentation and advance notice when humanly possible. Late problem sets will generally not be accepted, and if accepted due to extenuating circumstances will generally be subject to a penalty of 20% of the possible points for each day past due.

In addition to regular exams, all students must successfully complete a computer-administered gateway exam over computing derivatives in order to pass this course.

Calculus is a demanding course in many ways. It requires both a level of computational proficiency and also a level of conceptual understanding beyond any prior mathematics course. Yet because of or despite these difficulties, students who have previously found math classes easy because of an aptitude for moving symbols around might find that there is more to this class than they expect, and students who have in the past felt they weren't good at math might find this class more suited to them. In either case, this class might not be quite what you're used to, and it might be unsettling at first. Give it some time,

and feel free to take advantage of my office hours to help past the rough spots.

Tentative Schedule

Monday, January 16th §1.1 Functions	Tuesday, January 17th §1.2 Models	Wednesday, January 18th §1.3 Tweaking Functions	Friday, January 20th §1.4 Technology
Monday, January 23rd §1.5 a^x	Tuesday, January 24th §1.6 Inverse Functions	Wednesday, January 25th §2.1 Tangents & Velocity	Friday, January 27th §2.2 Limits
Monday, January 30th §2.3 Limit Rules	Tuesday, January 31st §2.4 Limits Technically	Wednesday, February 1st §2.5 Continuity	Friday, February 3rd §2.6 Limits at Infinity
Monday, February 6th §2.7 Rates of Change	Tuesday, February 7th §2.8-9 Derivatives	Wednesday, February 8th Review for Exam	Friday, February 10th **Exam 1**
Monday, February 13th §3.1 Derivative Rules	Tuesday, February 14th §3.2 Products&Quotients	Wednesday, February 15th §3.3 Applications	Friday, February 17th §3.4 Trig. Derivatives
Monday, February 20th §3.5 The Chain Rule	Tuesday, February 21st §3.6 Implicit Diff.	Wednesday, February 22nd §3.7 Higher Derivatives	Friday, February 24th §3.8 Log Derivatives
Monday, February 27th §3.10 Related Rates	Tuesday, February 28th §3.9 Hyp. Derivatives	Wednesday, March 1st Review for Exam	Friday, March 3rd **Exam 2**
Spring Break – No Classes			
Monday, March 13th §4.1 Optimization	Tuesday, March 14th §4.2 Mean Value Thm.	Wednesday, March 15th §4.3 Derivatives&Graphs	Friday, March 17th §4.4 L'Hôpital's Rule
Monday, March 20th §4.5 Curve Sketching	Tuesday, March 21st §4.6 Curve Sketching	Wednesday, March 22nd §4.7 Applications	Friday, March 24th §4.8 Applications
Monday, March 27th §4.9 Newton's Method	Tuesday, March 28th §4.10 Antiderivatives	Wednesday, March 29th Review for Exam	Friday, March 31st **Exam 3**
Monday, April 3rd §5.1 Areas & Totals	Tuesday, April 4th §5.2 Definite Integrals	Wednesday, April 5th Symposium – No Classes	Friday, April 7th §5.3 Fun. Thrm. of Calculus
Monday, April 10th §5.3 Fun. Thm. of Calculus	Tuesday, April 11th §5.4 Indefinite Integrals	Wednesday, April 12th §5.5 u-Substitution	Friday, April 14th §5.5 u-Substitution
Monday, April 17th §6.1 Area between Curves	Tuesday, April 18th §6.1 Area between Curves	Wednesday, April 19th Review for Exam	Friday, April 21st **Exam 4**
Monday, April 24th t.b.d.	Tuesday, April 25th t.b.d.	Wednesday, April 26th t.b.d.	Friday, April 28th Review for Final
Final Exam – 11am Thursday, May 4th			

Any students with disabilities which might affect their performance in this class should contact me as soon as possible to arrange accommodations.

Coe's faculty has adopted an academic integrity policy. It is your responsibility to understand and follow it.

Diversity, in all its forms, is valuable.