CALCULUS 2 2:00-2:50PM SPRING 2003 HICKOK 307

Instructor:	Jonathan White	
E-Mail:	JWhite@Coe.Edu	
Web Page:	http://www.coe.edu/~jwhite/	
Office:	Hickok 206A	
Office Hours:	MWF 9:00-9:50am, MWF 1:00-1:50pm and by appointment	
Office Phone:	399-8280	
Home Phone:	841-5111 (between 7am and 11pm)	
Text:	Calculus, Early Transcendentals, 4th Edition, Stewart	
Problem Sets & Quizzes:	There will be several problem sets and quizzes during the semester. Together these will be worth 200 points (25% of the final grade)	
Exams:	There will be four in-class exams administered during class time. The dates of these are indicated in the schedule on the back side of this sheet. These exams will be worth 100 points (about 12.5% of the final grade) each.	
	The final exam will be held during the finals week at the date and time indicated on the back side of this sheet. The final will be worth 200 points (about 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 and quizzes 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.	

Calculus 2 is a continuation of topics introduced in Calculus 1, but with a greater depth and sophistication. The problems get bigger, and the ideas get bigger as well. Some truly interesting questions become answerable, and more aspects of the world come within reach, but the techniques involved become substantially more difficult.

The use of technology, particularly the software package *Maple*, will be an important component of the course. Ability to compute with pencil and paper will also be important, as will conceptual understanding of the topics treated.

This combination of approaches and topics is likely to prove challenging, partly because few people will find that all of these aspects play to personal strengths. Don't let that be overwhelming, though, and remember that I'm around to help.

Tentative Schedule

		Wednesday, February 5 th 5.5 u-Substitution	Friday, February 7 th 6.1 Area between Curves	
Monday, February 10 th	Tuesday, February 11 th	Wednesday, February 12 th	Friday, February 14 th	
6.2 Volumes by Washers	6.3 Volumes by Shells	6.4 Work	6.4 Work	
Monday, February 17 th	Tuesday, February 18 th	Wednesday, February 19 th	Friday, February 21 st	
6.5 Average Value	7.1 Integration by Parts	7.2 Trig Integrals	7.3 Trig Substitution	
Monday, February 24 th	Tuesday, February 25 th	Wednesday, February 26 th	Friday, February 28 th	
7.3 Trig Substitution	Review	Exam 1	7.4 Partial Fractions	
Monday, March 3 rd	Tuesday, March 4 th	Wednesday, March 5 th	Friday, March 7 th	
7.5 Integration Strategy	7.6 Tables and Computers	7.7 Approximations	7.8 Improper Integrals	
Monday, March 10 th	Tuesday, March 11 th	Wednesday, March 12 th	Friday, March 14 th	
7.8 Improper Integrals	8.1 Arc Length	8.2 Surface Area	8.3 Physics Applications	
Monday, March 17 th	Tuesday, March 18 th	Wednesday, March 19 th	Friday, March 21 st	
8.4 Econ & Bio Apps	8.5 Probability	Review	Exam 2	
March 24 th - 28 th Spring Break No Class				
Monday, March 31 st	Tuesday, April 1 st	Wednesday, April 2 nd	Friday, April 4 th	
9.1 Differential Equations	9.2 Euler's Method	9.3 Separable Equations	10.1 Parametric Equations	
Monday, April 7 th	Tuesday, April 8 th	Wednesday, April 9 th	Friday, April 11 th	
10.2 Tangents & Areas	10.3 Length & Area	Registration No Class	10.4 Polar Coordinates	
Monday, April 14 th	Tuesday, April 15 th	Wednesday, April 16 th	Friday, April 18 th	
10.5 Polar Area & Length	10.6 Conic Sections	Review	Exam 3	
Monday, April 21 st	Tuesday, April 22 nd	Wednesday, April 23 rd	Friday, April 25 th	
11.1 Sequences	11.2 Series	11.3 The Integral Test	11.4 The Comparison Tests	
Monday, April 28 th	Tuesday, April 29 th	Wednesday, April 30 th	Friday, May 2 nd	
11.5 Alternating Series	11.6 Ratio & Root Tests	11.7 Strategies	11.8 Power Series	
Monday, May 5 th	Tuesday, May 6 th	Wednesday, May 7 th	Friday, May 9 th	
11.9 Series for Functions	11.10 Taylor Series	Review	Exam 4	
Monday, May 12 th	Tuesday, May 13 th	Wednesday, May 14 th	Friday, May 16 th	
9.4 Exponential Growth	9.5 The Logistic Equation	Review	Review	
		Wednesday, May 21 st Final Exam, 2pm		