

CALCULUS 1 MTWTh 1:00-2:45PM SUMMER 2005 HICKOK 207

- Instructor: Jonathan White
- E-Mail: JWhite@Coe.Edu
- Web Page: <http://www.coe.edu/~jwhite/>
- Office: Hickok 206A
- Office Hours: 3:00-3:50 MTWTh, and by appointment
- Office Phone: 399-8280
- Home Phone: 841-5111 (between 7am and 11pm)
- 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 *Maple*, which is available on the computers in the labs throughout campus. Quizzes will also be given frequently. Combined these will be worth 200 points (2/7 of the final grade).
- Exams: There will be three 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 (1/7 of the final grade) each.
- The final exam will be given on the last day of class, and will be worth 200 points (2/7 of the final grade).
- Grading: Grading will approximately follow a 90% A, 80% B, 70% C, 60% D scale.

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

		Wednesday, June 8 th §1.1 Functions §1.2 Models	Thursday, June 9 th §1.3 Tweaking Functions §1.4 Technology
Monday, June 13 th §1.5 a^x §1.6 Inverse Functions	Tuesday, June 14 th §2.1 Tangents & Velocity §2.2 Limits	Wednesday, June 15 th §2.3 Limit Rules §2.4 Limits Technically	Thursday, June 16 th §2.5 Continuity §2.6 Limits at Infinity
Monday, June 20 th §2.7 Rates of Change	Tuesday, June 21 st §2.8-9 Derivatives	Wednesday, June 22 nd Review for Exam	Thursday, June 23 rd Exam 1
Monday, June 27 th §3.1 Derivative Rules §3.2 Products&Quotients	Tuesday, June 28 th §3.3 Applications §3.4 Trig. Derivatives	Wednesday, June 29 th §3.5 The Chain Rule §3.6 Implicit Diff.	Thursday, June 30 th §3.7 Higher Derivatives §3.8 Log Derivatives
Monday, July 4 th Holiday – No class	Tuesday, July 5 th §3.10 Related Rates	Wednesday, July 6 th §3.9 Hyp. Derivatives Review for Exam	Thursday, July 7 th Exam 2
Monday, July 11 th §4.1 Optimization §4.2 Mean Value Thm.	Tuesday, July 12 th §4.3 Derivatives&Graphs	Wednesday, July 13 th §4.4 L'Hôpital's Rule §4.5 Curve Sketching	Thursday, July 14 th §4.6 Curve Sketching §4.7 Applications
Monday, July 18 th §4.8 Applications §4.9 Newton's Method	Tuesday, July 19 th §4.10 Antiderivatives	Wednesday, July 20 th Review for Exam	Thursday, July 21 st Exam 3
Monday, July 25 th §5.1 Areas & Totals §5.2 Definite Integrals	Tuesday, July 26 th §5.3 Fun. Thm. of Calc. §5.4 Indefinite Integrals	Wednesday, July 27 th §5.5 u-Substitution §6.1 Area b. Curves	Thursday, July 28 th Final Exam

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.