

Instructor: Dr. C. B. Clemons email:curtis@math.uakron.edu
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Office hours: MTWTh 10:00 - 10:50 A.M. **and by appointment**

Text: *Calculus* 6th edition, by James Stewart

Course Policies.

1. **Course grades** are determined by:

| | | | | |
|-------------------|--------|---------|---|---------|
| 3 tests | 100pts | 300 pts | A | 90-100% |
| Quiz Grade | | 75 pts | B | 80-89% |
| Homework | | 75 pts | C | 70-79% |
| Semester Project | | 50 pts | D | 60-69% |
| Final Examination | | 150 pts | F | 0-59% |
| Total | | 650 pts | | |

2. **Plus/Minus** grades are given in each grading range at the professor's .
3. **Withdrawal** from this course is permitted at any time on or before October 19, 2007, which is the end of the eighth week of school session. My signature is required after this date.
4. **Make-Up tests** are given at the professor's discretion and only with a valid excuse and prior notice of absence.
5. **Quizzes** will usually be given on Friday, except for weeks of tests and the last week. Quizzes will be several problems of the nature of material in the homework. Each quiz will be worth 20 points. **There will be no make-up quizzes.** Missed quizzes are worth zero points! Your quiz grade will be calculated as (your total quiz score after dropping your two lowest quiz grades) divided by (total quiz points)X 75.
6. **Homework** recommend problem will be announced each lecture, and you are free to work as many of these as you desire. Specific problems for grading will be announced and will be collected on Wednesdays. Each collected homework problem should be clearly identified and written on its own sheet of paper. Each homework assignment will be worth twenty points. **No late homework will be accepted.** Missed homework is worth zero points! Your homework grade will be calculated as (your total homework score after dropping your two lowest homework grades) divided by (total homework points)X 75.
7. **From the Provost:** Students whose names do not appear on the university's official class list by September 10, 2007, will not be permitted to participate (attend class, take exams, or receive credit).
8. **Tutors:** Students who might wish to work with a tutor in this course may go to Carroll Hall, Room 215A, Monday through Friday and request free tutorial assistance. Your learning assistant Mary Zitnick. Her office hours are T.B.A.

All students are responsible to have a copy of this information sheet.

TENTATIVE OUTLINE

| Week | Sections | Suggested Homework |
|-----------------|---|---|
| 1 Aug 27-31 | PreCalculus review 2.1 Tangent and Velocity 2.2 Limit of a function | Handout 1,3,5,7 1,2,3,5,7,9,12,13,15,19,21,25,26,29 |
| 2 Sept 3-7 | Labor Day 2.3 Limit Laws 2.4 Precise Definition of a Limit 2.5 Continuity | 1-17 odd, 21-31 odd,41,46,48 1,3,7,11,19,41 1,3,4,5,7,10,11,15-23 odd,31,35,37 |
| 3 Sept 10-14 | 3.1 Derivatives 3.2 The Derivative as a Function 3.3 Differentiation Formulas | 1,3,5,11,14,19,25-35 odd,39 1,3,7,9,13,17,19,23,25,33,39,43,49 1-41 odd,18,57,63,89 |
| 4 Sept 17-21 | 3.4 Derivatives of Trig. Functions 3.5 The Chain Rule Exam I | 1-25 odd,39-40 all 1-47 odd,16,24,44,63,77 |
| 5 Sept 24-28 | 3.6 Implicit Differentiation 3.7 Rates of Change 3.8 Related Rates | 1-21 odd,45,47 1,5,11a,13ab,15,26a 1,3,5,9,13,15,17,23,31 |
| 6 Oct 1-5 | 3.8 Related Rates 3.9 Differentials | 1-25 odd,31,33 |
| 7 Oct 8-12 | 4.1 Maximum and Minimum Values 4.2 The Mean Value Theorem | 3-13 odd,17,19,25-41 odd,45,47 49,53,63 1,3,5,7,11,13,17,19,23,32 |
| 8 Oct 15-19 | 4.3 Derivatives and Graphing 4.4 Horizontal Asymptotes Exam II | 1-17 odd, 21,23,29,33,39,49,53 3,4,7-29 odd,33,35,37,47-53 odd |
| 9 Oct 22-26 | 4.5 Curve Sketching 4.6 Graphing with Technology | 3,9,11,17,19,23,27,31,43,45,49 11, 12 |
| 10 Oct 29-Nov 2 | 4.7 Optimization 4.8 Newton's Method 4.9 Antiderivatives | 3-13 odd,17,31,35,42,47 4,5,15,17 1-39 odd,45,53,55,57,61,68 |
| 11 Nov 5-9 | 5.1 Areas and Distances 5.2 The Definite Integral | 1,3,5,11,15,17,19,21 1,3,9,11,17-23 odd,29,35,37,39 47-57 odd,69 |
| 12 Nov 12-16 | 5.3 The Fundamental Theorem of Calculus 5.4 Indefinite Integrals Exam III | 1-33 odd,37,45,47-50 all,57 3-15 odd, 19-41 odd,47-50 all,57,61 |
| 13 Nov 19-23 | 5.5 Substitution Thanksgiving | 1-29 odd, 35-49 odd,55,57 |
| 14 Nov 26-30 | 6.1 Areas between Curves 6.2 Volumes | 1,3,7,11,15,17,21,27,31,44 1,3,5,9,11,13,19,21,23,31,33,41,45 |
| 15 Dec 3-7 | 6.3 Volumes by Shells 6.5 Average Value | 3-13 odd,17,23,25,29 1-15 odd |
| 16 Dec 10 | Final Exam | 7:30-9:55 a.m. - Comprehensive |