

Math 182 Calculus II

Summer Session II, 2003

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TLC Hours: Monday, 1-2pm
Text: *Calculus, Early Transcendentals, Fourth Edition*, James Stewart

You can find a copy of this syllabus, daily lecture worksheets, homework assignments, and course news at:
<http://www.math.montana.edu/~hasenban/m182su03/index.html>

FAIR WARNING:

This is a 15 week course condensed into a short 6 weeks. If you miss a day of a summer course, you will have missed the equivalent of more than half a week of regular coursework. You are expected to attend class every day and to put forth your best efforts. I will assign 10-12 homework problems from each section, and that is intended to be a MINIMAL set of problems (if you do the problems and still don't get it, do some more!). We will generally cover two sections per day, so expect to be doing several hours of homework after class each day.

READ YOUR TEXT and DO THE HOMEWORK!

The daily class format will be based on lecture worksheets which I will hand out at the beginning of class; they are also available from the class web site. I encourage you to organize these lecture guides in a three-ring binder for future reference. You will also need notebook paper for working examples in class.

For your own benefit, I strongly recommend that you at least skim each lesson before class. Look at the examples and try to figure out the big picture. I guarantee it will make my lectures much more interesting and much more useful.

QUIZZES, HOMEWORK, and EXAMS:

We will typically have two weekly examinations (i.e. quizzes and/or exams). Quiz questions will often be taken from the assigned homework. During summer sessions, regular attendance is essential and expected. Therefore, **I will not give quiz retakes, accept late work, or drop quiz scores.**

There will be two midterm exams and a cumulative final exam. These will be closed notes and closed book exams, and calculators will not be allowed. **Make-up exams will be given ONLY if prior arrangements are made for excused absences, according to university policy.**

CHEATING

Cheating is dishonorable, disrespectful, and it hurts my feelings. I will not tolerate it in my classroom. If you feel that cheating is your only recourse, then you either aren't working hard enough (and I probably have never seen you during my office hour) or you are working too hard (when you find you've dug yourself into a hole, stop digging!) Either way, ask for help instead of sitting there all confused!

GRADING:

| | |
|--------------------------------|-------------------|
| Exam 1 (Mon. 7/14): | 100 points |
| Exam 2 (Tues. 7/29): | 100 points |
| Quizzes (8 × 10 pts.): | 80 points |
| Worksheets (4 × 5 pts.): | 20 points |
| Cumulative Final (Thurs. 8/7): | 150 points |
| Total: | 450 points |

NOTE: The information on this syllabus is subject to change, at the discretion of the instructor.

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| MONDAY | TUESDAY | WEDNESDAY | THURSDAY |
|---|---|-------------------------------------|--|
| June 30 5.5 Subst. | July 1 7.1 Parts QUIZ 1 | 2 7.2 Trig Ints. | 3 7.3 Trig Subst. QUIZ 2 |
| 7.1 Parts | 7.2 Trig Ints. | 7.3 Trig Subst. | 7.4 Partial Fracs. |
| 7.5 Worksheet (DUE tomorrow) 7 | 7.8 Improper Ints. QUIZ 3 8 | 6.3 Volumes 9 | 6.4 Work QUIZ 4 10 |
| 7.6 Integral Tables | 6.2 Volumes | Worksheet (DUE tomorrow) | Review (Q & A) |
| EXAM 1 14 | 8.2 Surface Area 15 | 10.2 Tangents and Areas 16 | 10.3 Cornu's Spiral QUIZ 5 17 |
| 8.1 Arc Length (TAKEHOME 1 OUT) | 10.1 Parametric Equations | 10.3 Arc Length and Surface Area | 11.1 Sequences TAKEHOME 1 DUE |
| 11.2 Finite Sums 21 | 10.3 Integral Test QUIZ 6 22 | 11.4 Comparison Tests 23 | 11.6 Absolute Convergence 24 |
| 11.2 Series (Infinite Sums) | Worksheet (DUE tomorrow) | 11.5 Alternating Series | 11.6 Ratio and Root Tests |
| 11.7 Strategy Worksheet (DUE tomorrow) 28 | EXAM II 29 | 11.8 Power Series 30 | 11.10 Taylor and MacLauren Series 31 |
| Review (Q & A) | 11.8 Power Series | 11.9 Functions as Power Series | 11.10 Term-by-Term 11.10 Int. and Diff. (TAKEHOME 2 OUT) |
| August 4 11.12 Appl. of Taylor Polynomials | 5 10.5 Areas and Lengths in Polar | 6 10.7 Conics in Polar | 7 |
| 10.4 Polar Coords. | 10.6 Conics, and 10.7 Conics in Polar TAKEHOME 2 DUE | Review (Q & A) | FINAL EXAM |