

Syllabus for Math 1272 Calculus II
Section 003, M-F 1:25-3:20 pm, STSS 144

Instructor: Alanna Hoyer-Leitzel
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Textbook: Stewart, *Calculus, Early Transcendentals*, Volume I, 6th edition.

We will cover Chapters 7-13, but not every section in every chapter. The list of topics covered by this course are:

- Ways to integrate functions that do not have obvious antiderivatives
- Issues related to the necessity of continuity in the FTC (i.e. improper integrals)
- Numeric approximation of integrals
- Arc length and area of surfaces
- Physical applications: hydrostatic force, moments, and center of mass
- Separable and first order linear differential equations, and applications
- Parametric equations, and the calculus of parametric equations,
- Polar coordinates, Area and arc length in polar coordinates
- Sequences and convergence
- Infinite series and tests for convergence
- Power series, Representing functions as power series
- Taylor and Maclaurin Series
- 3D geometry
- Introduction to vectors and vector functions

Grading: Grades will be based on quiz scores (10%), homework (10%), 3 midterm exams (15% each), and a final (35%).

Exams: The 3 midterm exams will be in class, on the following days, each lasting approximately one hour.

Tuesday June 28

Tuesday July 12

Tuesday July 26

The final will 2 hours, in class on Friday, August 5. Graphing calculators are not allowed on exams, but scientific calculators are.

Homework and Quizzes: Homework will be assigned every day and will be due 2 days after it's assigned (i.e. homework assigned Monday will be due on Wednesday, homework assigned on Tuesday will be due Thursday, homework assigned on Thursday will be due on Monday). Assignments will be posted on the course website.

There will be multiple quizzes every week. Usually I will announce them ahead of time, but I reserve the right to give a pop quiz. Quizzes will be homework problems or extremely similar to homework problems, so I encourage you to do the homework the day it is assigned in order to keep up with the material and prepare for quizzes.

Make-ups: If you will miss an exam or quiz or homework with a legitimate absence, please let me know *as soon as possible* so we can arrange a make-up or re-weight the other parts of the syllabus to make up the difference.

Scholastic Dishonesty: Just don't do it. This means plagiarizing or cheating on homework, quizzes or exams. See the Student Conduct Code for more about this.

Also, **PLEASE COME TO CLASS!** We will be covering a lot of material very quickly, so it is detrimental to miss a day.

Finally, I'm looking forward to a great summer!!

Any questions concerning University policies? See these websites:

Student Conduct Code:

http://www1.umn.edu/regents/policies/academic/Student_Conduct_Code.html

Equity and Diversity:

http://www1.umn.edu/regents/policies/administrative/Equity_Diversity_EO_AA.html

Disability Services: <http://ds.umn.edu/Students/index.html>

Mental Health Services: <http://www.mentalhealth.umn.edu>