

Course Information

Math 1272: Calculus II, Fall 2006

Instructor: Marcel Arndt
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Phone: 612-625-1119
Office: VinH 535
Office Hours: M,W 10:30am - 12:00pm

Lectures: Section 020: M,W,F 9:05am - 9:55am AndH 310

Recitations: Section 021: Tu,Th 9:05am - 9:55am 1701 Univ 207 Dee, Langhan W
Section 022: Tu,Th 9:05am - 9:55am VinH 311 Simmers, Tyler
Section 023: Tu,Th 9:05am - 9:55am VinH 6 Kurkcu, Harun
Section 024: Tu,Th 10:10am - 11:00am VinH 311 Simmers, Tyler
Section 025: Tu,Th 10:10am - 11:00am FordH 110 Yang, Jiaqi
Section 026: Tu,Th 10:10am - 11:00am 1701 Univ 207 Dee, Langhan W

Course homepage: <http://www.math.umn.edu/~arndt/Calculus2>

Prerequisites: C- in Math 1271.

Contents: Techniques of integration, including integration by parts, simple trig substitutions, partial fractions. Basic numerical integration; improper integrals; arc length; area of surface of revolution. Separable differential equations, Euler's method, exponential growth and decay. Parametric curves and polar coordinates. Review of conic sections. Sequences and series, comparison and ratio tests, Taylor series and polynomials. Vectors in three dimensions, dot product, cross product; lines, vector valued functions of a scalar.

Text: J. Stewart, Calculus, Early Transcendentals, 5th edition.

Covered sections: 7.1-7.5, 7.7-7.8, 8.1-8.3, 9.1-9.4, 10.1-10.5, 11.1-11.4, 11.6, 11.8-11.10, 11.12, 12.1-12.5, 13.1-13.3.

Quizzes: There will be quizzes given in the recitation sections every Tuesday, except for the first and last week of the semester and during the midterms. Each quiz will cover the material discussed in class during the preceding week.

Homework: Homework will be assigned daily, but it will be neither collected, nor graded. The quizzes and midterm exams will consist of problems similar to the ones assigned as homework. If you don't do your homework on a regular basis you should expect to do poorly in the course.

Grading Policy: Grades will be based on quizzes, three midterm exams, and a comprehensive final exam, contributing as follows:

	10 quizzes	3 midterms	final exam	total
total points	120 points (12 pts. each)	330 points (110 pts. each)	300 points	750 points
percentage of grade	16%	44% (~15% each)	40%	100%

Calculators: During exams and quizzes you will be allowed to use "scientific" calculators, but NOT graphing calculators. A scientific calculator is one that can calculate the values of standard functions, but cannot display the graphs of functions, or perform symbolic manipulations.

Attendance: Attendance will not be taken into account towards the final grade for this class, however it is *very highly recommended*. You are responsible for all material covered in class and all assignments. Experience shows that poor attendance most often results in a poor grade.

Drop Dates: Students should be aware they may drop any course without permission before the end of the eighth week of the semester (October 30, 2006). If they drop before the end of the second week, no mention of that course will appear on their transcripts. Otherwise, they receive a "W" for the course. However, it will cost them more money the later that they drop the course. Starting October 31, 2006, they will need permission to drop a course.

Final Exam: The final exam is a *common exam* for all sections of Math 1272; it will be given on *Thursday, December 14, from 1:30 pm to 4:30 pm*. You will NOT be allowed to take the final exam at any other time. Your grade for the class will depend on how your score in the final exam compares with the scores of the students from ALL sections. However, if your cumulative score is at least 675 points (that is, 90%) you are guaranteed an A, if your score is at least 560 (~75%) you are guaranteed a B-, and if your score is at least 450 (60%) you are guaranteed a C- for the class. The final exam will have two parts, one consisting of "multiple choice" questions, and another consisting of problems that require a complete written solution. The midterms, however, will consist only of problems for which you have to write down a complete solution.

Midterm Exams: The midterm exams will be given in your recitation sections, according to the following schedule (subject to change):

Exam 1: Tuesday, October 3

Exam 2: Tuesday, October 31

Exam 3: Tuesday, November 21

Missed Exams Policy: Missing an exam is permitted only for very serious and unavoidable extenuating circumstances, and only if you notify your instructor (not the TA) *in advance*. In all cases of absence from exams a written excuse is required. Otherwise you will get a score of 0 on the exam. Even if you are excused from taking a midterm exam, you will *not* be given a make-up. Instead, the following procedure will apply: at the end of the semester, two grades will be computed for a student who missed a midterm, and the highest of the two grades will be the one awarded for the class; the first grade will be determined by giving appropriate extra weights to the other two midterm exams, while the second grade will be determined by giving extra weight to the final exam. Except in truly exceptional situations, a student who misses the final exam will fail the course. There will be *no make ups for missed quizzes*.

Incompletes: These will be given only in extraordinary circumstances, and are at my latitude. More precisely, I will consider giving you an incomplete if you have successfully completed all but a small portion of the work of the course and some severe, unexpected event prevents you from completing the course. This means that you must have taken at least 2 midterms and must be doing work at the C level or better. You will have to sign a contract detailing what you have to do to complete the course. I will not give you an incomplete simply because you are behind in your work; in the latter case you should try to drop the course.

S/N Grade: If you are registered S/N, I will submit a grade of S if your letter grade is C or above, and otherwise a grade of N.