

MATH 251 - ANALYTIC GEOMETRY & CALCULUS II

Instructor: Patrick Staley

Office: 390D

Office hours: 11:00-11:50AM Mon Wed Thur; 1:00-2:50PM Tue

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Text: Calculus with Analytic Geometry Seventh Edition, by Larson, Hostetler, and Edwards.

Prerequisites: Math 250 with grade of C or better.

Class Hours: section 1: 8:00-8:50AM Mon-Thur in room 397

section 3: 10:00-10:50AM Mon-Thur in room 397

Graphing Calculator Required: Recommended calculator is the TI-83+. The TI-84/85/or 86 are also OK for this class. Calculators with symbolic algebra capabilities, e.g. TI-89 or TI-92, are not allowed for exams. Some of the exams are no-calculator exams.

Course Description: A continuing study of the calculus of real valued functions, infinite series, and analytic geometry including the following topics--

Inverse trigonometric functions

Hyperbolic functions

Arc length

Surfaces of Revolution

Integration techniques

L'Hopital's Rule

Improper integrals

Infinite series

Power series

Taylor series

Conic sections

Plane curves

Parametric equations

Polar coordinates

Attendance Policy: Students are expected to attend all lectures. If a student misses excessive class time, he/she may be dropped. Attendance is taken with a seating chart.

Electronic Devices: During lecture please turn off all phones, pagers, music devices, tape recorders, etc.

Special Accommodations: Southwestern College recommends that students with disabilities discuss academic accommodations with their professors during the first two weeks of class. An alternate form of this syllabus is available upon request.

Homework: There will be homework due nearly every class period. Repeated failure to complete homework assignments will result in the student being dropped for non-performance.

Grading Policy: Your final grade will be a composite of five or six chapter tests and a Final Exam. The Final Exam is weighted as two chapter tests. Letter grades of A,B,C,D, or F are assigned to each chapter test and Final Exam. These are incorporated into the final grade based on the weight

assignments A=4, B=3, C=2, D=1, and F=0. Excessive F scores (two) will result in a lower class grade regardless of the weighted average score. The final exam is comprehensive. There will be no make up tests.

Knowing the correct answer to an exam question is insufficient—the correct answer must be written on the answer sheet. Exam answers that confuse the grader will be marked wrong.

Example of Grading Algorithm: Assume chapter test grades of B,D,B,C,B,A, and final exam grade of A. Then class grade = $(3+1+3+2+3+4+4*2)/8 = 3.0 = B$ (note that for the class grade A is 3.5 to 4.0, B is 2.5 to 3.5, C is 1.5 to 2.5, D is 1. to 1.5, and F is 0 to .99)

Website: www.mr-ideahamster.com/classes/classes.htm contains current notes to students including information on exams, an updated syllabus, the current grade sheet (password protected), practice problems, practice tests, answers to practice tests, electronic tutorials, and other relevant information. You will need Adobe Reader (5.0 or higher; instructions for downloading Adobe Reader are on the website).

Exclusion Policy: A student may be dropped from the class for excessive absences, non-performance, cheating, or disruptive behavior.

Cheating: Behavior indicative of cheating will be handled by an oral exam, the outcome of which will be one of: F grade on the exam, F grade for the semester, dropping the class, or reinstatement of the score. This penalty also applies to any accomplice.

Projected Schedule:

week 1 --Preliminaries	week 10 --Chapter 8
week 2 --Chapter 5	week 11 --Chapter 8
week 3 --Chapter 5	week 12 --Chapter 8
week 4 --Chapter 6	week 13 --Chapter 9
week 5 --Chapter 7	week 14 --Chapter 9
week 6 --Chapter 7	week 15 --Chapter 9
week 7 --Chapter 7	week 16 --catch up or
week 8 --Chapter 7	week 17 --computer project
week 9 --Chapter 8	week 18 --Final Exam

Final Exam times: section 1 Monday May 22 8:00AM-10:00AM
section 3 Monday May 22 10:30AM-12:30PM

Initial Assignment: Buy the textbook; obtain a calculator; prepare for a preliminaries quiz by doing the preliminaries quiz on the website ([Prelim quiz](#)).