

CALCULUS III Math 264 Fall 2016,

Sections 52051-MATH 264 001 and 52052-MATH 264 002

Textbook: Stewart, J., Calculus, 7th edition, with [Webassign](#) and E-Book access. CONTENTS : Chapters 12-16: scalar functions of several variables, vector-valued functions of 1 or more variables; partial derivatives; integrals in 2-D, 3-D; line integrals; curl, divergence, Green's Theorem.

Catalog Description: Vector operations, vector representation of planes and curves, functions of several variables, partial derivatives, gradient, tangent planes, optimization, multiple integrals in Cartesian cylindrical and spherical coordinates, vector fields, line integrals and Green's theorem. (I) **Prerequisite:** C (not C-) or better in 163.

HOMEWORK: Daily homework problems are listed on the course website. No makeup or late homework is allowed. The exams will consist of problems similar to those in the homework. You need to work on all homework problems on a daily basis (about 2-3 hours per homework day) in order to be well prepared for the exams. You should be able to write your solutions without referring to the book. While you are encouraged to work in groups and seek help while doing your homework, the final solutions/answers need to be "your own work". You should check and do some of the extra problems on the common Calculus III website <http://www.math.unm.edu/~nitsche/courses/264/web>; these include Level 1 problems (strengthen the basics, often short answer) & Mixed Review (mixed review of earlier material, often slightly more challenging). NOTE: the rules and homework set in our class supersede all other common Calculus III course rules and assignments.

EXAMS: The exam dates are given in the syllabus. No makeup exams will be given unless you contact your instructor ahead of time with a documented "university authorized absence" (illness, family emergency, active participation in scholarly or athletic events). All exams will include multiple-choice questions.

FINAL EXAM: Students having conflicts with this examination schedule must notify the appropriate instructor before Friday, November 4, 2016. Any student having more than three examinations scheduled in any one day may notify the instructor of the last examination listed. If notified before November 4, 2016, the instructor shall make arrangements to give a special examination. Conflicts arising as a result of scheduling out of normal hours-pattern or day sequences must be resolved by the instructor of the off-pattern courses. Changes in this examination schedule are not permitted except by formal approval of the instructor's College Dean.

GRADING: Your total course grade is based on your ranking and percentile in the class computed using the in-class exams, homework, and the final exam scaled as follows:

- Three in-class exams: 100 points each (300 total)
 - Daily Homework - written homework (highest 20 will be counted, lowest 5 will be dropped) and Webassign homework (highest 8 will be counted, lowest 2 will be dropped): 200 points (70% from written homework and 30% from the Webassign homework). Each homework is worth 30 points.
 - Final Exam: 200 points
- Total: 700 points

To get full credit on any written assignment or exam you need to show all your work in clear and correct mathematical notation. You will be graded based on the work shown.

Note on Ws: If you withdraw after the 3rd week of class, you will receive a W. If you do not withdraw, you will receive a letter grade of A,B,C,D or F (and not a W).

RESOURCES to help you succeed:

- Your Instructors
- Recitation: This is a problem solving session.
- Calculus Table: by elevators on 3rd floor in DSH, start Wed 8/21/2013.
- CAPS: see <http://caps.unm.edu/subjects/math>
- CALCULUS III COURSE WEBSITE (the rules set in our class will count):
<http://www.math.unm.edu/~nitsche/courses/264/web>.
- CATS: Counseling and Therapy Services (Student Health Center, 277-4537) can help with exam anxiety.

CALCULATORS: We will not use any (graphing or non-graphing) calculators on the exams. Some homework problems might require the use of a calculator.

ATTENDANCE: Attendance at UNM and homework is mandatory. If you have missed more than 4 classes and/or homework assignments in the first 3 weeks you will be dropped from the course. Similarly, students with absences and lack of work during the rest of the semester may be dropped. Tardiness or early departure may be regarded as absence. Please note that it is the student responsibility to drop the course if he/she stops attending. A failing grade of F may be assigned if the student stops attending and does not drop.

STUDENT BEHAVIOR: Be courteous and respectful towards the class: be on time for lectures, turn off cell-phones and refrain from talking in class, leaving the classroom in the middle of a lecture or doing any other activity that could be disruptive to the class. Cheating will not be tolerated.

ACCESSIBILITY STATEMENT: We will accommodate students with documented disabilities. During the first two weeks of the semester, those students should inform the instructor of their particular needs.