Multidimensional Calculus
Math 2057-2, Spring 2011
Louisiana State University
Monday, Wednesday, and Friday from 12:40 to 1:30
Room 127 of Tureaud Hall

Instructor: Prof. Stephen Shipman
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Office hours: Monday 9:30 to 11:30, Thursday 1:30 to 3:30 or by appointment
Course web site: `http://www.math.lsu.edu/~shipman/courses_11A-2057.html`

Textbook: <u>Multivariable</u> <u>Calculus</u> <u>Early</u> <u>Transcendentals</u>, by Jon Rogawski

Prerequisite:

The prerequisite for this course is Math 1552, the second semester of calculus, including parametric equations, conic sections, and the geometry and calculus of vectors.

Course Content:

The course will cover chapters 14-17 of the textbook. More information on the content can be found at `https://www.math.lsu.edu/dept/courses/2057`. The main topics are

    Ch. 14: Differential calculus of functions of several variables.
    Ch. 15: Integral calculus of functions of several variables.
    Ch. 16: Line integrals and surface integrals of functions and vector fields.
    Ch. 17: Fundamental theorems of multidimensional calculus.

Exams:

    Exam 1: Friday, Feb. 11 on Chapter 14
    Exam 2: Friday, Mar. 11 on Chapter 15
    Exam 3: Friday, Apr. 8 on Chapter 16
    Final exam: Saturday, May 14, from 12:30 to 2:30

The final exam will be comprehensive but will focus on Chapter 17.

Evaluation:

Evaluation of performance in the course is based on scores on the exams as follows:
    Three in-class exams: 20% each
    Final exam: 40%
Grading scale: A—at least 90%; B—at least 80%; C—at least 70%; D—at least 60%.

Ethical Conduct:

Students must abide by the LSU Code of Student Conduct:
http://appl003.lsu.edu/slas/dos.nsf/$Content/Code+of+Conduct?OpenDocument