

CALCULUS 3 – Spring 2006

67-273-002: MTRF 12:40 - 1:40, Swart 303

Instructor: Dr. Kandasamy Muthuvel

Office: Swart 243

Phone: 424-0301

Email: muthuvel@uwosh.edu

Office Hours: MW 11:30 AM – 12:30 PM, 1:50 – 2:50 PM
T 10:20–11:20 AM, 1:50 – 2:50 PM
F 11:30 AM–12:30 PM
Others by appointment.

Text: Calculus Concepts and Contexts (2nd edition) by James Stewart.
We will cover Chapters 9 through 12 and selected sections from Chapter 13.

Calculators: Department policy allows the use of TI 83 PLUS GRAPHICS PROGRAMMABLE CALCULATOR on the exams and quizzes.
(If you already have a TI-83 or TI-86, you do not need to buy a TI-83 PLUS.)
TI-89 and TI-93 will not be allowed on exams and quizzes.

Software: Maple (not required). UWO has acquired a full site license for the software Maple. The computer labs have maple on their “priority machines”.
More information will be posted on D2L.

Course: Multivariate Calculus: Two-and three-dimensional vectors, multivariable functions, partial derivatives, double and triple integrals, line and surface integrals.

Exams: There will be three one-hour exams and a final exam. Final exam will cover on selected topics from Chapters 9, 10, 11, 12 and 13.
Exam dates will be announced at least one week in advance.

Homework: Homework will be assigned each class. Students are expected to come to class with the assignment completed and the next section read.

Quizzes & Problems: Every week when there is no exam, there will be a quiz. Quizzes must be taken at the time they are scheduled in class.

Grading: Exams (4): 400 points
Quizzes & Take-home Problems: 100 points
[90, 100) A, [87, 90) AB, [79, 87) B, [76, 79) BC, [68, 76) C, [57, 68) D,
Below 57 F

Attendance: Regular attendance is required. I will be taking attendance daily. Class attendance and effort will be considered to decide borderline cases.
Those having 3 or more unexcused absences will be penalized.

Goals: To communicate problem solutions and techniques of multivariable calculus in clear and well-organized written form, including the proper use of notation.
To provide convincing arguments to show that your solutions are correct.
You should also be able to argue your solutions using multiple routes of explanation (e.g., numerically, graphically, verbally, algebraically).

Remarks: Success in using this book will depend on reading, questioning, thinking hard about the ideas presented. Often you will have to read the same section two or three times to understand all of what is being discussed.
If you have any concerns or questions, please see me during my office hours (scheduled or arranged) right away.
Tutors are available free of charge in S113.
Students are subject to disciplinary action for academic misconduct, which is in UWS14.03, Wisconsin Administrative Code.