

Math 273

Calculus III

Fall 2009

Instructor: Dr. Sergey Lapin

Tu, Th 12:00-1:15

WEGN G50

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Office Hours:

Text: *Essential Calculus-Early Transcendentals*, by James Stewart, ISBN 0-495-01428-1.

Grading:

Homeworks (10 best of 12)	100 pts
Midterm exam	100 pts
Final exam	200 pts
Total Possible:	400 pts

Grade table:

93-100 %	A	78-80 %	C+
90-92 %	A-	75-77 %	C
87-89 %	B+	72-74 %	C-
84-86 %	B	69-71 %	D+
81-83 %	B-	66-68 %	D

Course topics: vector calculus, partial derivatives, multiple integrals.

Exams are closed book, no calculator. Bring photo ID to each exam.

Homework will be assigned in lecture and collected the week after it is assigned. You are responsible for doing your own homework.

<http://my.math.wsu.edu> provides access to an on-line version of the *Maple* software package, which you will be required to use from time to time. Log on to this website using your WSU “unified sign-in” user ID and password.

Makeup Exams will be given only in extreme cases for legitimate *documentable* reasons. If, for some legitimate reason, you cannot make it to one of the exams, please contact the instructor before the exam.

Reasonable accommodations are available for students who have a documented disability. Please notify the instructor during the first week of class of any accommodations needed for the course. Late notification may cause the requested accommodations to be unavailable. All accommodations must be approved through the Disability Resource Center (DRC) in Administration Annex 205, 335-1566 in Pullman.

Tentative Course Schedule

Aug 27 Thurs	10.6-10.7: Quadratic Surfaces, Vector Functions, Space Curves
Sep 1 Tues	10.8-9: Arc Length, Curvature, 3-D Motion
Sep 3 Thurs	11.1: Multivariable Functions
Sep 8 Tues	11.2: Limits, Continuity
Sep 10 Thurs	11.3: Partial Derivatives
Sep 15 Tues	11.4: Tangent Plane and Approximation
Sep 17 Thurs	11.5: Chain Rule
Sep 22 Tues	11.6: Directional Derivative, Gradient
Sep 24 Thurs	11.7: Extreme Values
Sep 29 Tues	11.8: Lagrange Multipliers
Oct 1 Thurs	12.1: Rectangle 2-D Integrals
Oct 6 Tues	12.2: General Region 2-D Integrals
Oct 8 Thurs	12.3: Polar Coordinate 2-D Integrals
Oct 13 Tues	Midterm Exam Review
Oct 15 Thurs	Midterm Exam
Oct 20 Tues	12.5: 3-D Integrals
Oct 22 Thurs	12.6: Cylindrical 3-D Integrals
Oct 27 Tues	12.7: Spherical 3-D Integrals
Oct 29 Thurs	12.8: N-D Change of Variables
Nov 3 Tues	13.1: Vector Fields
Nov 5 Thurs	13.2: Line Integrals
Nov 10 Tues	13.3: Fundamental Theorem
Nov 12 Thurs	13.4: Green's Theorem
Nov 17 Tues	13.5: Curl and Divergence
Nov 19 Thurs	13.6: Parametric Surfaces, Areas
Dec 1 Tues	13.7: Surface Integrals
Dec 3 Thurs	13.8: Stokes' Theorem
Dec 8 Tues	13.9: Divergence Theorem
Dec 10 Thurs	Final Exam Review