Los Angeles Valley College
Math 267

"Calculus is the most powerful weapon of thought yet devised by the wit of man." -- W. B. Smith

1. Class Information

Semester: Fall 2009
Section #: 1437
Class Time: MTWTh 8:15-9:25
Classroom: MS 101
Website: lavcmath.com/shin
Instructor: Prof. Luz V. Shin
Office: MS 104F
Phone #: 818-947-2393
Student Drop-in Hours: MTWTh 12:30-1:45 pm
Email: shinlv@lavc.edu
Textbook: Calculus, The Classic Edition, 5th Edition, Earl W. Swokowski

2. Course Information

Title: Calculus with Analytic Geometry III

Description: This is the final course in a three-semester unified treatment of calculus and analytic geometry. It includes quadric surfaces, vectors and parametric equations in two and three space, curvature, cylindrical and spherical coordinates, partial differentiation, gradient, maxima and minima for functions of several variables, multiple integration, surface integrals, line integrals, Green's Theorem, Divergence Theorem and Stoke's Theorem.

Prerequisites: A grade of C or better in Math 266.

Course Objectives: Upon completion of this course, the students will:

- Apply algebraic operations on vectors in different dimensions.
- Differentiate and integrate vector-valued and multivariate functions.
- Obtain the graphs, level sets, or images of vector-valued and multivariate functions.
- Solve a variety of physical problems using the calculus of vector-valued and multivariate functions.

Course Student Learning Outcomes: Upon completion of this course, the student will:

- Think analytically about higher level mathematical concepts in order to model and solve calculus problems .
- Analyze problems involving calculus based techniques.

3. Course Requirements

School Supplies: The student is expected to have the following for the semester:

- Textbook
- Notebook (3-ring binder or file folder) for notes and homework
- Pens, pencils and erasers
- Six Testing booklets (greenbooks/bluebooks) for exams

Homework and Group Work: Refer to the assignment sheet provided for the semester. Homework is assigned daily and questions discussed the next meeting. Homework is due on the day it was assigned. No late homework will be accepted at any circumstance. Group work will be given from time to time. Homework and Group Work will combine for a total of 100 points. Mathematics is not a spectator sport, so you have to do the work!

Group Quizzes: There will be group quizzes on selected topics, and will be worth 20 points each, for a total of 100 points.

Long Exams: There will be five Long Exams; each will be out of 100 points. Each exam is free response and covers one chapter. Students are not allowed to use notes during exams, but calculators are permitted. The tentative testing schedule is given in the timeline.

Final Exam: Finals is a two-hour comprehensive exam and is given a maximum of 100 points.

4. Class Policy

Attendance: REGULAR ATTENDANCE is very much encouraged! School policy on attendance is enforced. The instructor may exclude students who have excessive absences. There will be sign-in sheets that will be passed around each meeting. It is the student's responsibility to make sure that he/she signs in for his/her attendance.

Withdrawals: If you stop attending the class (or wish to drop a class), **you must drop the class yourself – officially** – by phone, Internet or through the Office of Admissions and Records. Failure to do so may result in a grade of "F" in the class. Please take note of important dates noted in the timeline.

DSPS Students: To make arrangements for special accommodations that have been recommended by DSPS for students with disabilities, please contact the instructor.

Cell Phones and Text Messaging: Please turn off or silent (not vibrate) all phones before coming to class. No text messaging, no MP3's, no ipods, and no hand-held video games while class is in session. Class time is for learning mathematics, not for personal communication or entertainment.

Cheating: Any form of academic dishonesty will not be tolerated. If caught, you may be given a zero for that particular exam.

Student Conduct: Students are expected to adhere to all district policies as described in the LAVC Fall 2009 Schedule of Classes including attendance (p. 139) and withdrawal from classes (p.145), and Standards of Student Conduct (p. 149-151).

5. Grading System

Evaluation: The total points earned will be computed out of a grand total of 800 points. No make-up exam will be given at any circumstance! If you miss an exam, a grade will be assigned from your final exam performance on the missed exam's coverage.

- HW/GW 100 points
- Group Quizzes 100 points
- Long Exams 500 points
- Final Exam 100 points

Grading Curve:

A	90 – 100	720 – 800 points
B	80 – 89	640 – 719 points
C	70 – 79	560 – 639 points
D	55 – 69	440 – 559 points
F	below 55	below 440 points

6. Tips for Success in this class

- Choose to attend all class periods on time and don't leave early.
- Pay attention in class, participate in class discussions, and ask questions. The instructor regularly gives away tips for exams and quizzes, so make sure you take note of them.
- Do or attempt all homework not for the sake of just doing it, but trying to understand the concepts, learning them in the process. "Practice makes perfect" applies not only to music and sports, but also in mathematics. Be sure to schedule sufficient time to complete your assigned tasks before the next class period.
- Know how to get help if you need it.
  - Attend scheduled review sessions.
  - Consult instructor during posted student drop-in hours.
  - Drop by the Math Lab (MS 106) for tutoring services.
- Organize your class materials, including homework assignments, graded quizzes and tests, notes and worked out review problems. These items will make valuable references when studying for upcoming tests and the final exam.

"Mathematics serves as a handmaiden for the explanation of the quantitative situations in other subjects, such as economics, physics, navigation, finance, biology and even the arts."
-- H. F. Fehr