

Los Angeles Valley College
Math 265 Honors

*"The calculus is the greatest aid we have
to the application of physical truth
in the broadest sense of the word."*
W. F. Osgood

1. Class Information

Semester: Fall 2008

Section #: *8114

Class Time: MTWTh 11:20-12:30

Classroom: MS 103

Website: <http://lavcmath.com/shin>

Textbook: Calculus, The Classic Edition, 5th Edition, Earl, W. Swokowski

Instructor: Prof. Luz V. Shin

Office: MS 104F

Phone #: 818-947-2393

Office Hours: TTh 12:30-3 pm

Email: shinlv@lavc.edu

2. Course Information

Title: Calculus with Analytic Geometry I

Description: This course begins a three-semester unified treatment of analytic geometry and calculus. It includes both theory and applications of functions and their graphs, limits, continuity, derivatives, rates of change, maxima and minima, mean value theorem, approximations, antiderivatives and definite integrals.

Prerequisites: A grade of C or better in Math 240 and Math 260; or appropriate skill level demonstrated through the math placement process.

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

- Develop an understanding of the limits of functions and their importance in the study of calculus.
- Develop an understanding of the concepts and meaning of continuity, derivatives and integrals.
- Develop the skills of differentiation and integration of functions.
- Develop the ability to apply techniques of problem solving that use the concept of the derivative.
- Develop the ability to solve physical applications of calculus such as finding areas, volumes, arc length, velocity and acceleration.
- Develop an understanding of beginning calculus and analytic geometry as well as basic theory.

Course Student Learning Outcomes: Upon completion of this course:

- Students will be able to think analytically about higher level mathematical concepts in order to model and solve calculus problems.

3. Course Requirements

School Supplies: The student is expected to bring the following to each class session:

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

Homework: Refer to the assignment sheet provided for the semester.

Homework is assigned daily and questions discussed the next meeting.

Homework quizzes and group work will be given from time to time. Mathematics is not a spectator sport, so you have to do the work!

Group Quizzes: There will be five 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 given a maximum 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.

***Supplemental Take-Home Quizzes:** There will be 5 supplemental take-home quizzes that will be more conceptual in nature, and may require the use of graphing calculators; each will be given a maximum of 20 points, for a total of 100 points.

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. 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 Pagers: Please turn off all pagers and phones before coming to class. Class time is for learning geometry, not for personal or business calls.

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 2008 Schedule of Classes including attendance (p. 135), withdrawal from classes (p. 141), and Academic Standards and Grading Policies (p. 136).

5. Grading System

Evaluation: The total points earned will be computed out of a grand total of *900 points. There will be opportunities to earn extra credit points throughout the semester. No make-up exam will be given at any circumstance!

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

Grading Curve:

- A 90 – 100 810 – 1000 points
- B 80 – 89 720 – 809 points
- C 70 – 79 630 – 719 points
- D 55 – 69 495 – 629 points
- F below 55 below 495 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 office 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.

"There is no branch of mathematics, however abstract, which may not someday be applied to the phenomena of the real world."

Nicolai Lobachevsky