

Los Angeles Valley College
Math 266

*"But just as much as it is easy to find the differential (derivative) of
a given quantity, so it is difficult to find the integral of a given differential.
Moreover, sometimes we cannot say with certainty whether
the integral of a given quantity can be found or not."
-- Johann Bernoulli*

1. Class Information

Semester: Spring 2009

Section #: 1430

Class Time: MTWTh 8:15-9:25

Classroom: MS 101

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

Drop-in Hours: MTWTh 2-3:30 pm

Email: shinlv@lavc.edu

2. Course Information

Title: Calculus with Analytic Geometry II

Description: This is the second course of a three-semester unified treatment of analytic geometry and calculus. It covers derivatives and integrals of transcendental functions (trigonometric, inverse trigonometric, logarithmic, exponential, hyperbolic and inverse hyperbolic functions) methods of integration, indeterminate forms, improper integrals, conic sections, polar coordinates, sequences, infinite series and power series.

Prerequisites: A grade of C or better in Math 265.

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

- Analyze, differentiate and integrate exponential, logarithmic and hyperbolic functions and the inverse trigonometric functions.
- Solve exponential growth and decay problems.
- Distinguish various functions and apply the proper techniques of integration.
- Evaluate limits of indeterminate forms and improper integrals.
- Analyze infinite sequences and series and their convergence or divergence.
- Graph conic sections and parametrized curves.

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/greenbooks) on exam days

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 (total of five highest).

Long Exams: There will be five Long Exams; each will be out of 100 points. Each exam is free response and covers one or two chapters. 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 out 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 Pagers: Please turn off all pagers and phones before coming to class. Class time is for learning, 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 Spring 2009 Schedule of Classes including attendance (p. 137) and withdrawal from classes (p. 143), and Standards of Student Conduct and Disciplinary Action (p. 138).

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.

- Homework and Group Work 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. If you are absent on a day that homework is due or group work is given, you lose the points for that class work.
- 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 drop-in hours.
 - Drop by the Math Lab (MS 106) for tutoring services. Check posted schedule.
- 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.

*"Who has not been amazed to learn that the function $f(x) = e^x$,
like a phoenix rising from its own ashes, is its own derivative?"*

-- Francois le Lionnais