

**Syllabus for Spring 2008 MATHEMATICS 267 – CALCULUS WITH ANALYTIC GEOMETRY III
(UC: CSU) – 5.00 units**

Section No. 3053 LEC 7:00 pm-9:30 pm TTh Prof. J. Kim BUNG-8

1. **Email:** kimjh@lamission.edu
2. **Phone:** (562) 938-4895 or X4387
3. **Office Hours:** TTh 6:00 pm-7:00 pm or by an appointment in the Math Center.
4. **Text:** *Calculus: The Classic Edition* 5th Edition by Earl W. Swokowski, Brooks/Cole, 1991.
5. **Description:** Third course of calculus includes solid analytic geometry, partial differentiation, multiple integration, vector calculus, infinite series, and an introduction to differential equations.
6. **Prerequisites:** Math 266 with a grade of “C” or better or appropriate skill level demonstrated through Mathematics assessment process, or by permit.
7. **Final Exam, Exams & Quizzes:**
 - a) The final exam is accumulative and is not optional but required. Everyone must take the final exam to pass. **No exceptions!**
 - b) Keep your own record of exam & quiz scores and periodically check your progress in the class.
 - c) See the tentative schedule for the exam & quiz dates.
 - d) There will be no make-ups for missed exams or quizzes including the final exam. **No exceptions!** However, the lowest exam grade and the lowest quiz grade will be dropped.
 - e) Non-graphing, non-programmable, and non-wireless based calculators will be required for both exams and quizzes.
 - f) All exams and quizzes will be closed books and closed notes. During testing covers for the calculators, books and notes must be put away under the seat.
 - g) Always ask the instructor to clarify any questions about the problems on the exam or quiz not your neighbors. Do not leave your seat.
 - h) No matter what the circumstances, do not look at other student’s paper because each student has different form of the exam. Seating chart will be assigned on the day of the exam.
 - i) During the exam only one person can leave for the restroom break
8. **Homework:**
 - a) You must put 1-2 hours practice working homework programs for each hour of class.
 - b) Homework will be collected every exam and quiz day in the beginning of the class.
 - c) Working together with other students on homework is permitted and encouraged. Individual students must turn in their own original copy of homework.
 - d) **NO LATE HOMEWORK** sets will be accepted. **No exceptions!**
 - e) I will be conducting few lectures in the computer lab with the use of Minitab. The last two exams plus the Final Exam will contain problems using the Minitab. You must remember the steps.
 - f) There will be computer assignments using the Minitab.
 - g) Homework set needs to be legible, neat and stapled by the sections. Homework set must have smooth edges. There will be a small project due toward the end of the semester.

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9. Attendance:

- a) Perfect attendance is expected and the attendance grade.
- b) Students with more than 4 or more absences (whether consecutive or accumulative) will be dropped from the course and will not be reinstated.
- c) Call or email the instructor to leave a brief message after being absent for more than two lectures to avoid being dropped from the roster. It is student's responsibility to obtain notes from one's peers.
- d) From the total grade, 5 points will be deducted for each absence and 1 point for being late to the class or for leaving early. Attendance will be enforced everyday in the beginning of the class.

10. Tutoring: Additional support material for this course includes: Software based tutorials, topic specific video presentations, and tutoring, available at the Math Center or in the Library.

11. Student Conduct: All students are expected to conduct themselves with the highest standards of ethics and behavior. Any cheating which involves any unauthorized cooperation on any graded assignments will be dealt with as severely as the College policy allows. Any infringement upon the rights of others will not be tolerated as well.

12. The Learning Outcomes for MATH 267:

- Calculate the dot and cross products of vectors
- Graph lines, cylinders and quadric surfaces
- Evaluate limits, derivatives and integrals of vector-valued functions
- Calculate curvature, unit tangents and normal lines
- Apply vector calculus to investigate motion, acceleration, and Kepler's laws
- Find limits of functions of two variables
- Calculate increments, differentials and partial derivatives
- Find extrema of functions and Lagrange multipliers
- Evaluate multiple integrals to find areas and volumes
- Evaluate double integrals in polar coordinates
- Evaluate triple integrals in cylindrical and spherical coordinates
- Define and calculate the Jacobian
- Apply Green's and Stoke's theorems to evaluate integrals
- Solve separable, first-order and second-order differential equations

13. Grades:

Final Exam	300
Best 5 Exams	500
Best 4 Quizzes	100
<u>Homework</u>	<u>100</u>
Total	1000



14. Scales:

900-1000	A
800-899	B
700-799	C
600-699	D
Below 599	F

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15. Tentative Schedule:

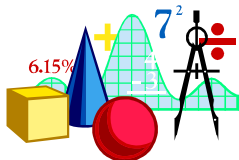
Week	Date	Tuesday	Date	Thursday
1	February 5	Introduction 14.1-14.3	February 7	No Class
2	February 12	14.4-14.5	February 14	Quiz 1 (14.1-14.3) 14.6 15.1
3	February 19	Review & Study Guide 1 15.2-15.3	February 21	Exam 1 (Ch.14) 15.4
4	February 26	15.5-15.6	February 28	Quiz 2 (15.1-15.3) Review & Study Guide 2 16.1
5	March 4	Exam 2 (Ch.15) 16.2	March 6	16.3-16.4
6	March 11	16.5-16.6	March 13	Quiz 3 (16.1-16.4) 16.7
7	March 18	16.8-16.9	March 20	Review & Study Guide 3 17.1
8	March 25	Spring Break	March 27	Spring Break
9	April 1	Exam 3 (Ch.16) 17.2	April 3	17.3-17.4
10	April 8	17.5-17.6	April 10	Quiz 4 (17.1-17.4) 17.7
11	April 15	17.8-17.9	April 17	Review & Study Guide 4 18.1
12	April 22	Exam 4 (Ch.17) 18.2	April 24	18.3-18.4
13	April 29	18.5-18.6	May 1	Quiz 5 (18.1-18.4) 18.7
14	May 6	Review & Study Guide 5 19.1	May 8	Exam 5 (Ch.18) 19.2
15	May 13	19.3-19.4	May 15	19.5-19.6
16	May 20	Review & Study Guide 6	May 22	Exam 6 (Ch.19)
<p>K to 8 student application deadline January 18, 2008 Last day to ADD classes without instructor signature February 19, 2008 Last day to apply for a REFUND February 19, 2008 Last day to DROP classes, without “W” (no refund) March 3, 2008 Last day to file a petition for Credit/No-Credit March 7, 2008 Last day to DROP classes, with a “W” (in person) May 5, 2008 Last day to DROP (Internet or S.T.E.P.) May 5, 2008</p>				
<p>Final Examination will be held on Tuesday May 27, 2008 8:00 - 10:00 pm</p>				

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Welcome to Math 267 class...



Once a wise man said that we must jump into the pool to learn how to swim...

Math is similar, we must solve the problems on our own and it is certainly not a spectator sports...