**DEPARTMENT OF MATHEMATICS**
**California State University, Bakersfield**
**MATH 202 – Calculus 2 – Section 2**

**Instructor:** Charles Lam
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**Class times:** 9:30-11:55T, 8-9:20WRF, SCI 3-117

**Office Hours:** 9:30-11:30W, 2-3R, 9:30-11:30F, or drop by when I am in.

**Course Description:** This is the second course in calculus, topics include integration and its applications, sequences, and series.

**Course Objectives:** At the end of the course, students will be able to

**(1)** appreciate the concept of the definite integral through the use of Riemann sum.
**(2)** apply the Fundamental Theorem of Calculus to evaluate definite integrals.
**(3)** apply the techniques of integration, without the help of any computer algebra systems.
**(4)** understand the concept of improper integrals, and methods of evaluation.
**(5)** apply integration in applications such as including area, volume and average value of a function.
**(6)** understand the concept of infinite sequences, and the concepts of boundedness and convergence of a sequence.
**(7)** apply detailed analysis of series starting with partial sums; determine the convergence or divergence of a series by using various techniques, including the integral test, comparison test, limit comparison test and the ratio test; apply the analysis of alternating series.
**(8)** understand the concept of power series, in particularly, the Taylor and Maclaurin series.

**Text:** Calculus – Concepts and Contexts, 3rd ed., by James Stewart.

**Topics covered:** Appendices F, G, Chapter 5, parts of Chapter 6, and Chapter 8.

**Web page:** The web page for the course is at http://www.csub.edu/∼clam/math202w09.html

**Labs:** Lab are conducted on Tuesdays. Attendance is required. You are required to work in groups of 2-4 on assigned problems and hand in the lab reports **individually** at the end

of Lab. One lab will be graded at random from each group, and every group member will be assigned the same grade.

**Homework:** Weekly homework will be given, you will have one week to finish homework.

**Quiz:** There will be short quizzes every week, and will be announced one class ahead.

**Grading:** In addition to labs, homework, and quizzes, there will be two tests, and a final exam (cumulative). A pass (50%) in the final exam is required to obtain a final grade of D- or better. A 60% in the final exam is required to obtain a final grade of C- or better.

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| Labs ..... | 10% |
| Homework ..... | 15% |
| Quiz ..... | 5% |
| Test 1 ..... | 20% |
| Test 2 ..... | 20% |
| Final Exam ..... | 30% |

**Test Dates:**

- First Test: Feb 10, Tuesday (tentative)
- Second Test: March 10, Tuesday (tentative)
- Final Exam: March 19, Thursday, 11-1:30pm

**Remarks:**

- There will be no make-up exams or tests. If you know in advance that you are going to miss an exam, please make your arrangements with me at least one week ahead.
- Please hand in labs and homework on time. Late labs and homework will be accepted up to the beginning of next class for 50% of credit.

**Academic Dishonesty:**

You are encouraged to work with your classmates in labs and homework. However, YOU ARE REQUIRED TO HAND IN WORK WRITTEN BY YOURSELF. A rule of thumb is to destroy any evidence of discussion before writing up the solutions yourself.

If you collaborated with anyone, ACKNOWLEDGE COLLABORATORS. Please also note that, ACKNOWLEDGING YOUR FRIENDS ON THE CONTRIBUTION DOES NOT MEAN YOU HAVE THE RIGHT TO COPY OTHERS' WORK. YOU MUST WRITE THE SOLUTIONS IN YOUR OWN WORDS.

If you are caught cheating, the policy for this class is -10% to the final grade on the first offense, -20% for the second, and -50% thereafter.