

DEPARTMENT OF MATHEMATICS
California State University, Bakersfield
MATH 222 – Laboratory Experience – Section 2

Instructor: Charles Lam

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Class times: 4:50-7:20pm (SCI-3 120)

Office Hours: 3-5T, 7:30-8:30W, 3-5R or drop by when I am in.

Text: There is no assigned text. Modules on various techniques will be distributed each week.

Course Description: This course introduces you to use mathematical software MAPLE to solve more advanced mathematical problems. Basic programming structures and syntax will be introduced. MAPLE may be employed in the future calculus courses, and upper level mathematics courses.

Course Objectives:

- (a) Write MAPLE procedures that involve basic programming structures such as `do/while` loops, `if-then-else` conditional, etc.
- (b) Use MAPLE to illustrate solutions to a problem graphically.
- (c) Use MAPLE to solve problems that require heavy multiple-precision arithmetic.
- (d) Use MAPLE to solve a general-setting mathematical problem.
- (e) Learn the concept of differentiated instruction.
- (f) Learn skills and knowledge for Advanced Placement teaching.

Web page: The web page for the course is at <http://www.csub.edu/~clam/math222w12.html>

Grading: In addition to labs, there will be one midterm test, and a final exam (cumulative). A pass (50%) in the final exam is required to obtain a final grade of D- or better.

Weekly Homework	160 points (8 × 20)
Midterm Test	80 points
Final Exam	160 points
Bonus Project	20 points

Test Dates:

- Midterm Test: February 15, in class (tentative)
- Final Exam: March 23, Friday, 5-7:30pm

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.
- Labs must be handed in at the end of the class. No late labs will be accepted.

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.