

**Math 230**  
**Fall 2023**

**MATHEMATICS FOR LIBERAL ARTS STUDENTS**

Instructor: **John Asatryan**

CRN: **18051 & 18052**  
Lecture Time: **Mon 6:30 pm – 7:30 pm & Wed 6:30 pm - 8:40 pm**  
Lab Time: **Mon 7:45 pm – 8:35 pm**  
Location: **CMS 126**  
Office Hours: **Mon/Wed 5:30 pm – 6:30 pm & Fri 1 pm – 2 pm (Zoom)**  
Office Location: **CMS 126**  
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Websites: [www.lamission.edu](http://www.lamission.edu) and [www.opentextbookstore.com](http://www.opentextbookstore.com)

**Prerequisites:** A grade of C or better in math 125, or Math 137 appropriate skill level demonstrated through the placement process.

**Advisory:** Eligibility for College Level Reading (CLR), Eligibility for ENGL 101.

**Textbook:** The text for this course is Math in Society by David Lippman. The text is available as a free e-book at: <http://www.opentextbookstore.com/mathinsociety/>  
You can also choose to buy a printed version from Amazon or the bookstore for \$15.

**Calculators:** No calculators are allowed of any kind. No graphing calculator, cell phone, IPOD, nor hand held computers are allowed during in class assessments.

**Final:** The final is cumulative and has a free response portion and a multiple choice portion and you must show work to earn credit. You are required to take the final exam to pass the class. No make-up finals will be allowed. The final will be on **Wednesday, December 13<sup>th</sup> from 5:30 pm - 7:30 pm.**

**Mid Term Exams:** There will be three exams. They are all written and in free response format. They cover about two chapters worth of material each. You have to show all your work on exams to earn full credit. Students are not allowed to use notes during exams. I strongly encourage you to study for and take ALL exams.

**Classwork:** Classwork will be given regularly in the form of group work or individual work. Active learning is very effective, especially in a Math class. Classwork is also my way of taking attendance and checking that you were in class.

**Grading:** Final grades will be based on:

- Final exam – 35%
- Tests – 30%
- Quizzes – 20%
- Homework, Projects, Discussions – 15%

Your grade in the course is determined according to the following scale:

**A: 90% - 100%**

**B: 80% - 89%**

**C: 70% - 79%**

**D: 60% - 69%**

**F: 0% - 59%**

For borderline cases attendance, participation, and level of improvement on the final are considered.

**Tutoring:** If you have questions and/or cannot make it to office hours, or you just like to get more help, free tutoring is available at the Learning Center.

**Description:** Math 230 is an introduction to the spirit and style of mathematics and its pursuit as a human endeavor. Topics are chosen from a variety of mathematical fields including logic, set theory, systems of numeration, number theory, algebra, the metric system, geometry, mathematical systems, consumer mathematics, probability, statistics, graph theory, voting and apportionment which are intended to illustrate the nature of mathematical discovery, the utility of mathematical applications, and the beauty of geometrical design. However, this class should not be taken by Math, Science, Psychology, Sociology, Business, or Nursing majors. This class does not satisfy the math requirement for these majors.

**Student Learning Outcomes:** By the end of the course, the successful student will be able:

1. Use the methods discussed in the course to analyze applications from various disciplines and graphically or using simplex method solve optimization problems in two variables with linear constraints.
2. Understand the principles of borrowing and saving to compare different financial opportunities and make informed decisions.

**Attendance:** Regular and punctual attendance is expected from all of us. Unlike most other courses, missing just one mathematics class will immediately place you at a disadvantage because it is difficult, if not impossible, to catch up on the missed material by yourself. You are responsible for all material presented and discussed in every class meeting.

**Withdrawals:** If you stop attending the class (or wish to drop a class), YOU MUST DROP THE CLASS YOURSELF – *OFFICIALLY* – on or before **November 19, 2023**. Failure to do so may result in a grade of “F” in the class. A new state policy in effect as of 2012 limits students to **three attempts per course**. Receiving a grade or a “W” for a course counts as an attempt, **regardless of when the course was taken**. Withdrawal by the deadline to avoid a “W” will not count as an attempt. **For Fall 2023 the deadline to avoid a “W” is Sunday, September 10<sup>th</sup>.**

**Cell Phones:** Please turn off your phones before coming to class. Class time is for learning and interacting with me and your classmates, 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 or quiz. The event will be reported to the Math Department Chair who will forward the report to the VP of student services for disciplinary action which may include suspension or expulsion.

**Miscellaneous:** To be successful in this and any other math class, expect to spend **at least** three hours for every class hour. If you have prior engagement such as work and a full load schedule, it will affect

your success in this class. So please prioritize and set yourself realistic expectations. Do not take on more than you can handle. Please stop by my office any time throughout the semester and let me know how I can help you. Keep in mind that the majority of the learning that you do in college courses takes place outside of class. What you get out of this class is a reflection of what you put into it. Mathematics is not a spectator sport. You have to put in the work to see the results!

### **Important Dates for Fall 2023:**

Last day to add classes:	Sunday, September 10
Last day to drop with a refund:	Sunday, September 10
Last day to drop with a "W":	Sunday, November 19
Math 230 Final Exam:	Wednesday, December 13 from 5:30 pm – 7:30 pm

### **Student Conduct:**

a. Any disruptive behavior, which includes but is not limited to talking, eating or drinking in class, listening to IPOD, and reading material other than the classroom text, will result in disciplinary action, which may include being dropped from class. Students are expected to respect and obey standards of student conduct while in class, or on the campus. The Student Code of Conduct, disciplinary procedure, and student due process can be found in the college catalog, student handbook, and the Office of the Dean of Student Affairs. Charges of misconduct and disciplinary sanctions may be imposed upon those who violate these standards of conduct, or provisions of college regulations.

b. Violation of the Academic Honesty Policy: Dishonesty, including but not limited to, cheating, or plagiarism. Plagiarism – from the Latin word for “kidnap” – involves using another’s work without giving proper credit, whether done accidentally or on purpose. This includes not only words and ideas, but also graphs, artwork, music, maps, statistics, diagrams, scientific data, software, films, videos, and the like. Plagiarism is plagiarism whether the material is from published or unpublished sources. It does not matter whether ideas are stolen, bought, downloaded from the Internet, or written for the student by someone else – it is still plagiarism. Even if only bits and pieces of other sources are used, or outside sources reworded, they must still be cited. To avoid problems, students should cite any source(s) and check with the instructor before submitting an assignment or project. Students are always responsible for any plagiarism in their work.

c. An instructor who determines that a student has cheated or plagiarized has the right to give an “F” grade for the assignment or examination.

### **Reasonable Accommodation:**

If you have a legally protected disability under the Americans with Disabilities Act (ADA) or California discrimination law, and you believe you need reasonable accommodation to participate fully in this class, please make an appointment to see me during my private office hours to discuss your need. Please discuss the options with me during the first two weeks of class.

COVID-19 Updates: [Coronavirus \(laccd.edu\)](https://www.laccd.edu/coronavirus)

## Success and Study Tips:

1. **Attend class--** Choose to attend all class periods on time and don't leave early. If you are absent on a day that a quiz is given, you lose the points for that quiz. Also, knowledge in any math class is extremely cumulative. What you miss one day will continue to hurt you throughout the rest of the course.
2. **Pay attention--** 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.
3. **Do all homework--** 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.
4. **Get help--** Know how to get help if you need it. Consult instructor during posted office hours. These hours are for you to visit me and ask questions and express any concerns you have. Use the resources available to you for free (especially the Math Center which provides drop-in Math tutoring).
5. **Keep up with all work--** Getting behind will "snowball" on you very rapidly. Do your homework on a daily basis.
6. **Study math everyday--** don't leave all the work until the weekend. No one can "digest" so much math all at once, no matter how much time you spend trying. Math is best studied in bite-sized, digestible pieces. That means studying a few hours every day.
7. **Read the text--** Reading your math text should be done slowly and carefully... it doesn't read like a novel or a magazine. It is important that you learn the language of math; you cannot succeed in any math course without learning to express yourself in that language. Only by reading your text carefully and regularly can you learn it. Also, make sure to check the additional resources available at the beginning or the end of the textbook.
8. **Get Organized--** Organize your class materials, including homework assignments, graded quizzes and tests, notes and any worked out review problems. Make your own review sheets/index cards to use when studying for tests. These items will make valuable references when studying for upcoming tests and the final exam.
9. **Find other students to study with.** Group work can be very productive, and is very much encouraged. You'll be given opportunity to work in a group so exchange email and phone numbers with a couple of students in the class.

Name: \_\_\_\_\_ Email: \_\_\_\_\_ Phone: \_\_\_\_\_

10. **Strive for understanding not just rote memory.** Understanding greatly enhances your ability to comprehend later material. Memory is unreliable, and temporary. Understanding is intense, never lost...and exciting!