

# Math 238 Calculus for Business & Social Science I

For an accessible copy of the syllabus use the following link: [Accessible Syllabus](#)

## Fall 2023 Class Details

Lecture - M01 (13966)
Lab - M01A (15266)
Location: Mission-Internet 16-week Online Course ( <b>Canvas</b> )
<b>Prerequisite:</b> Intermediate algebra, the equivalent or higher, completed at the secondary or post-secondary level; or by meeting CA Title 5 CCR § 55063 math competency requirement of intermediate algebra, per LACCDAP4100; or by placing into any college-level math course <b>Advisory:</b> Math 245

## Instructor Contact Information

**Instructor Name:** Karineh Abed

**Office Phone:** (818) 833-3391

**Email:** [abedk@lamission.edu](mailto:abedk@lamission.edu)

**Website:** <http://www.lamission.edu/~abedk/6490>

Remote Office Hours		
Every Tuesday and Thursday	10 am - 11 am	Zoom link: <a href="https://laccd.zoom.us/j/82785338463">https://laccd.zoom.us/j/82785338463</a>
Or by appointment		

I understand that you may not be able to make it to the office hours, so please do not hesitate to email me if you have any questions! For zoom office hours, upon entry you will be placed in the waiting room before moving into the main zoom session.

## Fall 2023 IMPORTANT DATES:

Sunday, September 10 Deadline to add using an add permission code

Sunday, September 10 Deadline to drop without a "W" notation

Sunday, November 19 Deadline to drop with a "W" notation on record

Last day to drop with a refund is 9/10/2023

## General course description:

A course in Calculus intended for *Business and Social Science* majors. The following topics and their business applications are included: polynomial, rational, exponential, and logarithmic functions, differentiation, integration, and integration by parts. Please note that if these topics don't sound familiar, don't panic! This course is designed to help you understand various calculus topics and their applications to business and social sciences fields.

## Student Learning Outcomes:

Students who successfully complete this course will be able to:

1. Apply optimization techniques in business and social science applications.
2. Apply integration techniques to solve business or social science problems.

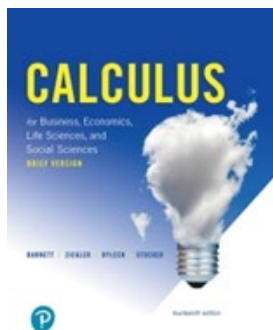
## How to be Successful in this Course?

Requirements and Recommended Material for this course:

### 1. Notebooks:

I strongly recommend that you use two notebooks for this online course. One for note taking as you go through the learning material and study, and one for homework/Quizzes. Homework and Quizzes are online, but I encourage you when doing your online homework/quiz, have your homework notebook next to you. Write down the section number, the problem number and try your homework steps in your homework notebook before submitting your answers online. This way if you have any questions you can ask during office hours. The best way to ask questions is to have your attempted work present.

### 2. Textbook:

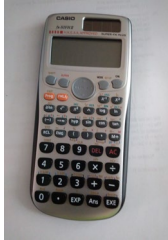


Calculus for Business, Economic, Life Sciences, and Social Sciences Brief Version  
14<sup>th</sup> w/Access Pearson Barnett, Ziegler, Byleen, Stocker  
ISBN: 978-0-13-485199-0

Link to LAMC bookstore: [https://eagleslanding.lamission.edu/buy\\_courselisting.asp](https://eagleslanding.lamission.edu/buy_courselisting.asp)

Please note that the ISBN used in the bookstore might be different from what you see above, since the bookstore offers a bundled package. When you sign up for My Lab and Mastering, you get access to the e-book. You are not required to purchase the physical book.

### 3. Calculator:



A Scientific calculator is required. Any kind will do the job.

### 4. Flashcards/Highlighter/Straightedge:

While studying, take notes for definitions, important concepts, and in general anything that strikes you as important. You could also use your flashcards to write down the step-by-step process for a given problem. These flashcards will serve you when preparing for assessments. Highlighters or colorful pen/pencil are a good way to color-code your study material. A straightedge is recommended to take neat notes and to do homework problems.

### Access Pearson and e-text:

This is a crucial step in setting up and getting ready for our online course!

To access the electronic textbook and course assignments **you will need to register with Access Pearson. We will be using Access Pearson in conjunction with canvas.** Follow the steps below to complete the linking process for the two platforms.

- i) Sign in to Canvas and enter your Canvas course, Math 238.
- ii) From the navigation tabs on the left of your canvas page, select "Access Pearson"
- iii) Select "Open Access Pearson".
- iv) If you have an existing Pearson account, enter your Pearson account username and password to Link Accounts. If you don't have a Pearson account, select "Create" and follow the instructions.

v) Select an access option: In this step you can select a 14-day free trial, or purchase the access code, or if you have purchased the textbook from Mission College bookstore, your book came bundled with this access code.

**Note #1:** At any point during this process if you are asked to enter a course ID, close that page, clear your device history, restart your device and redo the steps again. There is no course ID for this course, since the two platforms are linked.

**Note #2:** Do not purchase the access code from elsewhere including the pearsonstore.com as this course is a custom course and any access code purchased from other websites will not give you access to our course.

**Note #3:** The access code will be packaged with the new textbook sold in LAMC bookstore. You can also choose to purchase only the access code and use the e-text, this could be done from within our canvas course, by clicking on 'Access Pearson' tab and using a credit card.

### Turn Off Pop-up Blocker

To ensure a smooth access to Pearson assignments please follow the steps [here](#) to turn off the pop-up blocker on your browser.

### Access Pearson

Get your computer ready for the best experience, check the system requirements for your product at: <https://www.pearsonmylabandmastering.com/system-requirements/>

Need help? For help with Access Pearson for Canvas, go to:

[https://help.pearsoncmg.com/integration/cg/canvas/student/en/content/get\\_started.htm](https://help.pearsoncmg.com/integration/cg/canvas/student/en/content/get_started.htm)



*Katherine Johnson was an American mathematician whose calculations of orbital mechanics as a NASA employee were critical to the success of the first and subsequent U.S. crewed spaceflights. Source: AcademicInfluence.com*

## Online Class Components and Policies

### 1. Projects and Peer Discussions:

There will be 3 business application-focused projects along with weekly peer discussions. Each project will cover important business calculus concepts. These projects will assess two major areas: knowledge of business calculus concepts as they apply to real life problems AND soft skills such as communication, participation, time management, effective and constructive peer review and feedback. For weekly peer discussion due dates refer to weekly modules.

**Project 0 due Sunday, 9/10** (does not count towards your grade, the purpose of this project is to prepare you for graded project-based assessments)

**Project 1 first draft due Sunday, 10/1 – final draft due Sunday, 10/15**

**Project 2 first draft due Sunday, 11/5 – final draft due Sunday, 11/19**

**Final Project first draft due Sunday, 12/3 – final draft due Sunday, 12/10**

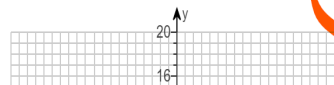
### 2. Online Homework:

You should plan to complete the homework daily, immediately after completing your study of a particular section. You can conveniently access the homework from Canvas from weekly modules. Most homework problems have a “Help me Solve this” and/or “View an example” option under “Question help”.

1.1.4

Graph the equation  $y = -2x^2$ .

Use the graphing tool to graph the equation.



Question Help

Homework assignments' due dates are meant to keep you on track with your time management; however, you can work on these assignments continuously (after the due date) to improve.

Since Pearson does not grade each step of your work, it is important that you write down your step-by-step work in your homework notebook. This will be extremely helpful when you return to these questions to study.

At the conclusion of the course, I will drop two low score homework assignments to help you with your course grade.

### 3. Online Quizzes:

There will be 6 online **chapter quizzes**. These quizzes are a good form of self-assessment for the weekly learning material. Quizzes are not timed, and you can

take them as many times as you like up until the due date. The system will always keep the best score of your attempts. Unlike the homework, there is no help option and you cannot review the correct answers until after you submit the entire quiz. You can not work on the quizzes beyond the due date, so please be sure to submit chapter quizzes by their indicated due date.

At the conclusion of the course, I will drop the lowest score chapter quiz to help you with your course grade.

#### 4. Weekly Homework Help Forums:

**Weekly Homework Help Forums** are **not graded**, rather they are there for you to post any questions you might have from that week's study material. You should check these forums continuously as your peer's question could also be your question. These forums are an excellent weekly learning environment, feel free to provide hints and feedback to your peers as you see questions being posted. I will be reviewing these forums and giving hints or feedback daily.

#### 5. Standards for Student Conduct:

Dishonesty, such as cheating or knowingly furnishing false information to instructors and college personnel, turning in work that is not one's own will be grounds for disciplinary action at LAMC according to the Standards of Student Conduct as described on the LAMC Catalog. The penalty may range from no credit for the assignment up to an "F" grade and disciplinary action. Students are expected to adhere to all school policies, and to abide by the standards of student conduct as described in the LAMC catalog. Any infringement upon the rights of other students in the class will not be tolerated. Please refer to LACCD Board Rule 9800 for further information.

#### 6. Exclusion Policy:

To avoid being excluded from the course as a 'No Show' please be sure to login to Canvas the first day of the course and to complete the course orientation and the related check-in-assignment (orientation quiz). Lack of activity (not logging into Canvas and not submitting assignments for consecutive weeks) could result in you being dropped from the course. If you wish to drop the class, you must drop the class yourself, officially. 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.

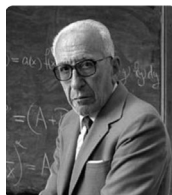
Receiving a grade or a "W" for a course counts as an attempt, regardless of when the course was taken. Withdraw by the deadline of 9/10/2023 to avoid a "W". For Fall 2023 the deadline to drop with "W" is November 19, 2023. The procedures for dropping classes are detailed in the current Los Angeles Mission College Catalog.

#### 7. Communication Policy:

**Pay attention to my emails and canvas announcements, which will be my main communication channel to you.** You can use the inbox option in Canvas to communicate with me. I respond to emails within 24 hours with the exception of weekends and Holidays.

#### 8. Participation:

This is an online course and all of our interactions will occur in Canvas. All of us in this class have a responsibility to create an environment in which we can learn from each other, the goal is to create an online learning community! Everyone is expected to participate, interact with peers and contribute to various discussion forums so that we can all benefit from the insights and experiences that each person brings. Expect frequent communication and feedback from me via inbox message, announcements, assignment feedback, and discussion forums. Ultimately, we will regularly and substantively interact with each other many times each week, throughout the term.



*Alberto Pedro Calderón, widely considered one of the 20th century's most important mathematicians. Calderón and Zygmund developed the theory of singular integral operators. Source: Dreambox.com*

## Grading system:

Homework **25%**  
Chapter Quizzes **30%**  
Peer Discussions **5%**  
Projects 1 and 2 **25%**  
Final Project **15%**

**90 - 100% A**

**80 - 89% B**

**70 - 79% C**

**60 - 69% D**

**0 - 59% F**

**For borderline cases, assignment completion, participation, and level of improvement on various assignments are considered.**

## **Gradebook Access:**

To view your grade in the course at any time during the semester, click the [“Grades” navigation tab in Canvas](#). **We do not use the gradebook in Pearson**. Pearson’s gradebook will only be used to access past due assignments for review purposes.

## Free Tutoring:

Free math tutoring is available via LAMC LRC Math Center. Click ‘LAMC Tutoring’ navigation tab in Canvas to be connected to the tutoring center.

## Success and Study Tips:

A minimum of 12 hours per week study time is expected for the course. Students who are most successful in this course are those who complete all the assignments in a timely manner, thoughtfully review feedback, take advantage of free tutoring offered by LAMC, these students are also highly organized and disciplined. Students who grow their abilities the most also make use of our online learning community (the weekly discussion forums) and are quick to reach out when they find themselves struggling.



## Accommodations for DSPS students:

LAMC students with verified disabilities who are requesting academic accommodations should use the following procedure:

- vi) Obtain documentation of your disability from a licensed professional. You can use the [LAMC Disability Verification Form](#). Students exiting high school can use their IEP as a qualifying document.
- vii) Make an appointment with a Disabled Students Programs and Services (DSP&S) Counselor or Specialist to review your documentation and discuss reasonable accommodations. Please call DSP&S at (818) 364-7732 or use the Online Counter Support on the [DSP&S page](#) to schedule an eCounseling appointment.
- viii) Bring your disability documentation to your DSP&S eCounseling appointment, which will be held through Cranium Café. Be sure to use a laptop or computer with Chrome or Firefox (no smart phones) and a working video camera and microphone.
- ix) Every semester, you are required to meet with your DSP&S Counselor to review your academic progress and accommodation letter. After meeting with them, your written accommodation agreement will be emailed to your professor(s).

Please complete this process in a timely manner to allow adequate time to provide accommodation. Students who have questions with technology accessing Cranium Café or the webpage should send an email to Online Counter Support for further assistance; contact Adrian Gonzalez at [gonzala@lamission.edu](mailto:gonzala@lamission.edu) or Rachel Povolotsky at [povorol@lamission.edu](mailto:povorol@lamission.edu).

## Management of Stress and Mental Health:

If you, or someone you know is in distress due to the pressure of succeeding in school and contending with work, financial issues, relationships, managing time effectively, getting enough sleep, etc., please visit the Student Health Center (SHC), which offers a broad range of confidential student services including counseling and mental health services. The SHC is located in the Administrative Services Building. The SHC webpage is [lamission.edu/healthcenter](http://lamission.edu/healthcenter) and the phone number is 818-362-6182. The National Suicide Prevention Lifeline number is 800-273-8255.

## Resources:

[Basic Need Center](#): The Basic Needs Center supports students' well-being by providing referrals to various services.

[Associated Student Organization](#): Get involved in student government! Represent the student voice in campus government and organize clubs and events.

[CalWORKS](#): If you qualify for CalWORKS, you can get money for books/supplies and an array of support services to help you achieve self-sufficiency.

[Campus Sheriff](#): In the event of an emergency, you should call the campus sheriff; please put the number in your phone now: 818 364-7843

[Counseling](#): Do you know what classes you need to reach your educational goals? Create a roadmap to success with an academic counselor!

[Disabled Students Programs & Services](#): DSPS is committed to developing strategies that provide equal opportunity and promote academic success for students with disabilities.

[EOP&S](#): We help economically and educationally underrepresented students to achieve their educational goal(s). If you qualify, you will receive benefits such as academic counseling, Student Educational plans, priority registration, transfer assistance, tutoring, cash & book grants, meal vouchers, and assistance with technology.

[Financial Aid & Scholarships Office](#): Find out if you qualify for financial aid (including federal and state grants, loans, work-study jobs, and scholarships) by talking to one of our financial aid specialists.

[Foster and Kinship Care/Guardian Scholars Programs](#): If you are a foster youth, or a foster/resource parent, we can help you—in English or Spanish—with training and advocacy for parents and support services for former/current foster youth students.

[Honors Program](#): Want to increase your chances of acceptance into a University? Take an Honors class!

[Learning Resource Center](#): Visit the LRC to get tutoring (both individual and group), topic-specific workshops, and review sessions -- all free of charge! Math Center: Free Math tutoring, computer and internet access are available. Call (818) 364-7811 or visit CMS 121.

[STEM Program](#): For those interested in pursuing a science, technology, engineering and math, please call the STEM Office at (818) 364-4161.

[Program Mapper](#): Access the online system that helps you decide on a major, determine exactly what classes you need for the degree or certificate you desire, plan out your schedule, and more!

[Pathway Coaches](#): A Pathway Coach supports students throughout their college experience from beginning to end, helping them with enrollment, financial aid, counseling, tutoring, and basic needs.

[Student Portal](#): Update your email address, view your schedule and grades from past semesters through the portal.

# Suggested study timeline for Math 238 Fall 2023

(For due dates refer to each assignment)

Week 1 Aug 28 - Sep 3 Suggested Plan	
Monday	Complete Course Orientation; Familiarize yourself with course modules and expectations. <b>Submit the Orientation Quiz</b> to avoid being excluded from the course. Introduce yourself and engage with your peers via <b>Peer Meet and Greet</b> forum.
Tuesday	Complete Section 1.1; You can choose from various learning materials available to you. I recommend you read the textbook and practice the book examples first, as you practice the book examples write down the steps involved in answering a given question, then go through power points and example videos as needed. The MathTalk videos are an excellent way of connecting calculus topics to real business applications. After you have studied the concepts presented in these sections, complete the homework/quizzes the same day. Don't wait to complete the homework/quiz last minute.
Wednesday	Complete section 1.2
Thursday	Complete Section 1.3
<b>Friday</b>	Use ' <b>Meet and Greet</b> ' forum to <b>Introduce yourself</b> (come back to this forum on Sunday, to review your peer's posts and engage with them)
Saturday	Catch up with unfinished work
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Revisit the Meet and Greet forum to communicate and engage with your peers.</b>

Week 2 Sep 4 - Sep 10 Suggested Plan	
Monday	Holiday
Tuesday	Complete Section 1.4
Wednesday	Complete Section 1.5
Thursday	Complete Section 1.6
<b>Friday</b>	Visit the <b>peer discussion forum for Project 0</b> and complete the required tasks.
Saturday	Catch up with unfinished work.
<b>Sunday</b>	Circle back to peer discussion forum for Project 0 and review your peers' comments. Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Project 0 Due</b>

Week 3 Sep 11 - Sep 17 Suggested Plan	
Monday	Complete Section 2.1
Tuesday	Complete Section 2.2
Wednesday	Complete Section 2.3
Thursday	Catch up with unfinished work.
<b>Friday</b>	<b>No peer discussion this week</b>
Saturday	Catch up with unfinished work.
Sunday	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week).

Week 4 Sep 18 – Sep 24 Suggested Plan	
Monday	Complete Section 2.4
Tuesday	Complete Section 2.5
Wednesday	Complete Section 2.6
Thursday	Catch up with unfinished work.
<b>Friday</b>	Visit the <b>peer discussion forum for Project 1</b> and complete the required tasks.
Saturday	Catch up with unfinished work.
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Circle back to the discussion forum for Project 1 to engage with your peers and complete the required tasks.</b>

Week 5 Sep 25 – Oct 1 Suggested Plan	
Monday	Complete Section 2.7
Tuesday	Work on Project 1
Wednesday	Work on Project 1
Thursday	Work on Project 1
<b>Friday</b>	<b>Utilize the peer discussion forum for Project 1 to get help/hints from your peers before you submit the project.</b>

Saturday	Catch up with unfinished work.
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Project 1 Due (first draft)</b>

Week 6 Oct 2 – Oct 8 Suggested Plan	
Monday	Complete Section 3.1
Tuesday	Complete Section 3.2
Wednesday	Complete Section 3.3
Thursday	Catch up with unfinished work.
<b>Friday</b>	<b>No peer discussion this week</b>
Saturday	Catch up with unfinished work.
Sunday	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week).

Week 7 Oct 9 – Oct 15 Suggested Plan	
Monday	Complete Section 3.4
Tuesday	Complete Section 3.5
Wednesday	Complete Section 3.6 (Skip 3.7)
Thursday	Catch up with unfinished work.
<b>Friday</b>	<b>Review my feedback on Project 1 and prepare the final draft accordingly.</b>
Saturday	Catch up with unfinished work.
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Project 1 Due (final draft)</b>

Week 8 Oct 16 – Oct 22 Suggested Plan	
Monday	Complete Section 4.1

Tuesday	Complete Section 4.2 (Skip 4.3)
Wednesday	Catch up with unfinished work.
Thursday	Catch up with unfinished work.
<b>Friday</b>	<b>No peer discussion this week</b>
Saturday	Catch up with unfinished work.
Sunday	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week).

Week 9 Oct 23 – Oct 29 Suggested Plan	
Monday	Complete Section 4.4
Tuesday	Complete Section 4.5
Wednesday	Catch up with unfinished work.
Thursday	Catch up with unfinished work.
<b>Friday</b>	Visit the <b>peer discussion forum for Project 2</b> and complete the required tasks.
Saturday	Catch up with unfinished work.
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Circle back to the discussion forum for Project 2 to engage with your peers and complete the required tasks.</b>

Week 10 Oct 30 – Nov 5 Suggested Plan	
Monday	Complete Section 4.6
Tuesday	Catch up with unfinished work.
Wednesday	Catch up with unfinished work.
Thursday	Catch up with unfinished work.
<b>Friday</b>	<b>Utilize the peer discussion forum for Project 2 to get help/hints from your peers before you submit the project.</b>
Saturday	Catch up with unfinished work.
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Project 2 Due (first draft)</b>

Week 11 Nov 6 – Nov 12 Suggested Plan	
Monday	Complete Section 5.1
Tuesday	Complete Section 5.2 (Skip 5.3)
Wednesday	Catch up with unfinished work.
Thursday	Catch up with unfinished work.
Friday	Holiday
Saturday	
Sunday	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week).

Week 12 Nov 13 – Nov 19 Suggested Plan	
Monday	Complete Section 5.4
Tuesday	Complete Section 5.5
Wednesday	Catch up with unfinished work.
Thursday	Catch up with unfinished work.
<b>Friday</b>	<b>Review my feedback on Project 2 and prepare the final draft accordingly.</b>
Saturday	Catch up with unfinished work.
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Project 2 Due (final draft)</b>

Week 13 Nov 20 – Nov 26 Suggested Plan	
Monday	Complete Section 6.1
Tuesday	Complete Section 6.2
Wednesday	Catch up with unfinished work.
Thursday	Holiday
Friday	Holiday
Saturday	Holiday

Sunday	Holiday
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Week 14 Nov 27 – Dec 3 Suggested Plan	
Monday	Complete Section 6.3 (Skip 6.4)
Tuesday	Catch up with unfinished work.
<b>Wednesday</b>	Visit the <b>peer discussion forum for the Final Project</b> and complete the required tasks.
Thursday	Catch up with unfinished work.
<b>Friday</b>	<b>Circle back to the peer discussion forum for the Final Project to get help/hints from your peers before you submit the project.</b>
Saturday	Work on the final project
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Final Project Due (first draft)</b>

Week 15 Dec 4 – Dec 10 Suggested Plan	
Monday	Catch up with unfinished work.
Tuesday	Catch up with unfinished work.
Wednesday	Catch up with unfinished work.
Thursday	Catch up with unfinished work.
<b>Friday</b>	<b>Review my feedback on the Final Project and prepare the final draft accordingly.</b>
Saturday	Work on the final draft
<b>Sunday</b>	Catch up with unfinished work; Look at next week's expectations and plan ahead (create a study plan for next week). <b>Final Project Due (final draft)</b>

Week 16 is the finals week.