

Applied Business Calculus

BUS - 1100 401

Course Description

This course is an introduction to differential and integral calculus as applied to business. Topics include rational, exponential, and logarithmic functions, modeling, limits, graphing equations, differentiation, and integration. Emphasis is placed on how these tools can be used to solve business problems.

Pre-Requisite(s): MATH 1050 or MATH 1090.

Semester(s): All

Course Student Learning Outcomes

- Use functions to model problems related to business.
- Find the rate of change of a function using the process of differentiation.
- Use differentiation to solve problems related to business.
- Work with exponential and logarithmic functions.
- Find the area under a curve using the process of anti-differentiation (integration).
- Use integration to solve problems related to business.
- Solve business problems using calculus during class discussions and in groups.
- Use technology to assist in solving calculus problems related to business.

Brief Description of Assignments/Exams

You will complete many problems in class. You are then free to practice outside class as much as you need to. There are no assignments that you submit for a grade.

Unit Tests (50%) -- After every unit, we will have a test in class. You can replace your score on any test by doing better on the corresponding section of the Final Exam.

Final Exam (50%) -- We will take a comprehensive final exam twice: once near the end of the semester and once during the final exam period. After the first exam, you will receive feedback and have time for additional practice. Only your higher score will count.

Grading Scale

At any point in the course you will be able to see all your grades and your current overall grade in Canvas. At the end of the course, your overall percentage grade will be rounded to the nearest whole number and converted to a letter grade using the table below. As grades must be applied in a fair and consistent manner, I cannot bump you to a higher grade for any reason, and there will not be anything you can do to raise your grade once the course is over.

Assume there will not be any extra credit. If I do offer any sort of extra credit, it will be via in-class announcement, and never to individual students.

Your course grade may be lowered for unprofessional conduct, including frequently arriving late to class or leaving early from class, using your cell phone for non-class purposes, or disrespectful communication.

	87%-89% = B+	77%-79% = C+	67%-69% = D+	0%-59% = E
93%-100% = A	83%-86% = B	73%-76% = C	63%-66% = D	
90%-92% = A-	80%-82% = B-	70%-72% = C-	60%-62% = D-	

Make-up Tests and Exams

To schedule a make-up for a unit test, you must notify me before the test that you have to miss it. I will then send you instructions for making an appointment with the Testing Center. Make-up tests must be taken within 6 calendar days of the test. If you aren't able to meet these conditions for a make-up test, your score will be taken from the corresponding section of the Final Exam.

If you miss the first Final Exam offering, your Final Exam score will be based fully on the one during finals week.

If you have to miss the second Final Exam offering, we can arrange a make-up exam, but only if a serious emergency makes it impossible for you to attend.

Additional Policies

- Class will start on time. If you absolutely must be late, please enter as inconspicuously as possible.
- Silence your cell phone before class starts.
- You can use your cell phone, laptop, tablet, or other device only for class-related purposes, such as taking notes.
- Help promote an effective learning environment by avoiding activities that might distract other students, such as talking while classmates are trying to listen to someone else, using your cell phone, eating, or packing up early.
- You must receive my permission before recording audio or video in class.

Engagement Plan

- Please contact me when you have questions. I am happy to provide help. I will respond to e-mail within 24 hours during the work week. The best way to contact me outside class is by sending an e-mail through the course in Canvas -- use the Inbox link on any Canvas page.
- I may communicate with the class using Canvas Announcements. You are responsible for checking announcements.
- The Home page of the course in Canvas shows my office hours.

Additional Materials

This course does not use a textbook.

You will need a calculator capable of taking natural logs (ln button), raising e to a power (e button), and performing operations on fractions. While no specific calculator brand/model is required, I recommend the Casio fx-300ES PLUS or the Casio fx-115ES PLUS. You may use a non-graphing, non-programmable calculator on tests. Bring your calculator to class.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Final Exam	Assignment	100
	Introduce Yourself	Discussion	0
	Unit 1 Test	Assignment	100
	Unit 2 Test	Assignment	100
	Unit 3 Test	Assignment	100
	Unit 4 Test	Assignment	100

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

[Advising and Counseling Support Services](#)

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

[Student Academic Calendar](#)

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)