

Calculus for the Biological, Management, and Social Sciences

Instructor: Hassan Mehdi

Class time on line is T,TH 10:00-10:50 using Zoom link.

<https://moodle.linnbenton.edu/mod/url/view.php?id=779367>

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Course description: An introduction to differential and integral calculus as applied to economics with some applications to social sciences, and life sciences. The course presents a conceptual development of calculus applied to polynomial, exponential, and logarithmic functions and extrema theory.

Prerequisite: Mth 111 – College Algebra, or an equivalent course.

Course Management System: MyOpenMath.com (MOM) – *Free!*

Online book link : <http://opentextbookstore.com/buscalc/BusCalc.pdf>

Course ID: 97547

Enrollment Key : Math 241

Text: *Business Calculus* by Shana Calaway, Dale Hoffman, David Lippman (*Open Resource – free!*)

Outcomes:

1. Identify average and instantaneous rates of change in business and biology applications.
2. Connect graphical, numerical, and symbolic interpretations of the difference quotient and the derivative.
3. Apply differential calculus techniques to describe the behavior of business/biological functions.
4. Apply techniques of integral calculus to determine net changes in business and biological applications such as marginal analysis, velocity, and growth.

Grading:

Class Prep	10%
ICAs	15%
Homework	20%
Midterm Exams	30%
Final Exam	25%
Total	100%

Distribution

A = 90%+
B = 80% to 89%
C = 70% to 79%
D = 60% to 69%
F = less than 60%

No grades other than A through F will be issued. No “Y” grades will be issued.

Incompletes: Incomplete grades are issued at the instructor's discretion. An incomplete may be issued under unusual and verifiable circumstances. The student who is to receive an incomplete grade should be maintaining satisfactory progress in the class and should be attending class regularly. This student should have completed the majority of the work with some component, due to the aforementioned circumstances, remaining to be completed.

Exams: There will be two “mid-terms” and a comprehensive final exam. The final exam percentage score replaces any lower “mid-term” grade up to 80%.

Midterm 1 is due by the 4th week of class 1/31/2021

Midterm 2 is due by the 8th week of class 2/28/2021

Final is due by Wednesday of the 11th week 3/17/2021

It is your responsibility to know the exam schedule and deadlines as listed above. If you miss an exam you will receive a “0”. That grade may be changed by your final exam grade as mentioned above. There are no retests or make-ups. Exceptions to this policy may be made for extremely unusual circumstances. You should contact me prior to the exam period in such cases.

ICAs: In-Class Activities are now take-home activities. You are encouraged to work with group members to work on these assignments. You are also encouraged to reach out to the math help desk (online) to support on these activities. ICA are submitted on the Moodle class website under the assigned folder for each activities. Your ICA score is based on both completion and correctness.

Class Preps and Homework: **Class Preps and Homework are** assigned, completed, and graded on MyOpenMath. Class Prep assignments prepare you for class and homework further develops your understanding after class.

Resources:

Classes/**lectures are recorded on Zoom** and will be posted on Moodle on a weekly basis. I am available for questions during the lecture assigned time, and if needed by appointment.

Free Math Help! Online Math help are available from the online Math Learning Center

You are also encouraged to work with other classmates on class activities, assignments.

I also encourage you to find look for **videos on Youtube** as there are plenty of them that covers each topic extensively.

Documented Disability: If you are a student with a documented disability, you may be eligible for accommodations through the Office of Disability Services (541-917-4789). Please see me or contact the Office of Disability Services if you think you may have a disability, documented or otherwise, that affects your learning.