MTH 241- Calculus for the Biological, Management, and Social Sciences
Winter Term 2021

Instructor: Juli Schutfort   Email: schutfj@linnbenton.edu
Office Hours: Posted on Moodle via Zoom https://linnbenton.zoom.us/j/4387657408

Course Information
CRN: 33731   Prerequisite: MTH 111 or equivalent

Description: An introduction to calculus as applied to business with some applications to social sciences, and life sciences. Develops an intuitive development of the calculus of polynomial, exponential and logarithmic functions, extrema theory, and applications.

Upon completion of the course, you will be able to:
- Identify average and instantaneous rates of change in business and biology applications.
- Connect graphical, numerical, and symbolic interpretations of the difference quotient and the derivative.
- Apply differential calculus techniques to describe the behavior of business/biological functions.
- Apply techniques of integral calculus to determine net changes in business and biological applications such as marginal analysis, velocity, and growth.

Materials:
- Regular access to a computer and the Internet
- Graphing Calculator, TI83 or TI84 preferred
- We will be use a free an open source textbook and online homework (MyOpenMath).

Resources:
The Math Desk will be operating remotely via Zoom, with drop-in help available during our standard hours:
- 8am - 9pm Mon - Thu
- 8am - 5pm Fri
- 11am - 4pm Sat

The link to the remote Math Desk is https://linnbenton.zoom.us/j/579890953
The URL for the Learning Center Remote Resources site
is https://www.linnbenton.edu/current-students/study/learning-center/hours-and-locations/index.php. This will have all relevant Zoom meeting links, hours, and updated information for students who want to use any of the Learning Center resources.

How your Progress will be Measured

Homework: Success in a math class goes hand-in-hand with completing the homework assignments. When doing your homework, feel free to ask for help. The Math Lab personnel are here to help you; get in the habit of doing your homework during drop-in help hours. Form a study group with other members of the class. Talking with others about math is where learning begins!

Homework will be completed and submitted electronically using MyOpenMath.

> **Enrolling in the Class Software: MyOpenMath**
> 1 Go to www.myopenmath.com
> 2 Click on "Register as a New Student"
> 3 Enter a user name, I recommend using your student ID number
> 4 Choose and confirm a password, one you will not forget
> 5 Enter your first and last names, and your e-mail address
> 6 Enter the Course ID: 95943
> 7 Enter the Enrollment Key: mth241

Homework for the week will be due on Sunday at 11:59pm. You will have 3 late passes that you can use on HW assignments. You must apply the late pass before the due date of the assignment. The late pass will extend the due date by 2 days without penalty. You will get 3 attempts per problem in a HW assignment. Your two lowest HW scores will be dropped from the grade calculation.

Activities: There are weekly Activities that you will be discussing in groups in Moodle and submitting individually. The submission date is on Saturday. Solutions to the Activities will be posted after the due date. Late Activities are not accepted. The lowest activity score will be dropped.

Participation: You will receive participation points for posting to the weekly Activity Group discussion forum.

Tests: There will be two tests and a comprehensive final in this course. Testing will be done in myOpenMath and will be available for a 24 hour period. There are no retests. If you must miss a test you are required to contact the Instructor prior to the testing time. If you fail to take a test, you will receive a score of 0.

- The time limit for test 1 and test 2 is 90 minutes. The limit for the final exam is 110 minutes.
- The exams may randomly generate questions of different types so each student's version may be slightly different but cover the same concepts.
- The tests are not proctored.
- The exams are open books and notes.
- Test dates are on the class schedule and the myOpenMath website.

Grading: Grades will be based on

2 Tests (15% each)	30%	
Cumulative Final	15%	
Activities	15%	
Participation	5%	
MyOpenMath Homework	35%	

Final Grade: A: 90 - 100%   B: 80 - 89%   C: 70 - 79%   D: 60 - 69%   F: 0 - 59%
(The grades of Y and WP are not given in this class. The grade of IN is only given under unusual and verifiable conditions, and if the majority of the work has been completed.

Academic Dishonesty

I assume that you are ethical and honest. However, if there is an incident of academic dishonesty (cheating), you will receive a score of zero for that test/assignment and the incident will be reported to the college administration for possible further disciplinary action. If there is a second offense, you will receive a grade of F for the course and the incident will be reported to the college administration issuing disciplinary action.

Supporting Diversity

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. (For further information please visit http://po.linnbenton.edu/BPsandARs)

Inclusion

The LBCC community is enriched by diversity. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. I actively support this right regardless of race, creed, color, personal opinion, gender, sexual orientation, or any of the countless other ways in which we are diverse. (Related to Board Policy #1015.)

Special Needs

Students who may need accommodations due to documented disabilities, or who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you have not accessed services and think you may need them, please contact please contact Accessibility Resources (541) 917-4789.