

Math 251- Differential Calculus Winter 2021

Instructor: Hollis Duncan

Office: Online

Office hours: After class and by appointment

e-mail: hollis.duncan@linnbenton.edu

Required materials:

- Jon Rogawski; Colin Adams; Robert Franzosa, *Achieve for Calculus: Early Transcendentals*
- Access to online homework MacMillan [Achieve](#) course id:
- Zoom account with camera and microphone (if you have trouble getting these let me know)

Course Description:

This is the first course in the calculus sequence for students majoring in mathematics, science and engineering. Limits and derivatives are approached using graphical, numeric, and symbolic methods. Linear approximations, related rates, curve sketching and optimization are among the applications of differentiation covered in this course. Prereq: Mth 112

Grading: Your grade will be approximately based on the following:

Online Homework	25pts
Quizzes/In class assignments	25pts
Test	25pts
Final	25pts

Scale: A: 90-100 pts
 B: 80-89 pts
 C: 70-79 pts
 D: 60-69 pts
 F: Below 60 pts

No “Y” or “WP” will be given in this class.

Student Learning Outcomes:

Upon completion of the course, the student will be able to

1. Calculate, interpret and communicate the concepts of limits and derivatives.
2. Recognize when and how to apply calculus tools to solve problems in business, the sciences, and engineering.
3. Connect the graphical behavior, numerical patterns and symbolic representation of functions and their derivatives.

Homework/Quizzes:

Online Homework will be assigned for each section we discuss. If you need an extension on any homework assignment, stay after class and I can make that change for you. Please do not email me concerning hw extensions.

Quizzes will be announced, make sure that you stay up to date with all homework assignments and ask questions when you have them.

Your **lowest grade** in this assignment in this category **will be dropped** at the end of the term.

Test and Final:

All exams will cover material discussed in class and in homework. I will let you know about a week in advance the actual date of the exam. If you miss an exam you will receive a zero for that exam, there are no make-up exams.

<u>LRC Hours</u>

Attendance:

Online attendance is expected. If you cannot make it to the online class you need to contact me. I will be linking the recorded classes to our Google Classroom. It is your responsibility to come to class, if you cannot come to class it is your responsibility to watch the recorded classroom videos.

Special Circumstances:

LBCC is committed to inclusiveness and equal access to higher education. If you have approved accommodations through the Center for Accessibility Resources (CFAR) and would like to use your accommodations in this class, please talk to your instructor as soon as possible to discuss your needs. If you believe you may need accommodation but are not yet registered with CFAR, please visit the CFAR website at www.linnbenton.edu/cfar for steps on how to apply for services or call 541-917- 4789.

To be successful:

- Log into Zoom a couple of minutes before class.
- Know my **office hours** and drop in to ask questions or clarify ideas, I can help!
- Have your camera turned on so that we can interact as a class face to face.
- Work in **groups** outside of class (Discord, Facetime, Hangouts)
- When you or your group are struggling with a problem ask Mike at the “**Math Help Desk**” in the LC
- Get a **free tutor** from the tutorial services area in the **LC**

LBCC Comprehensive Statement of Nondiscrimination

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.

Basic Needs

Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Roadrunner Resource Center for support (resources@linnbenton.edu), or visit us on the web www.linnbenton.edu/RRC under Student Support for Current Students). Our office can help students get connected to resources to help. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to provide any resources that they may possess.