**MTH 254 Calculus**

**Winter 2019**

**Instructor:** Hollis Duncan

**Office:** WOH 109

**Office hours:** 11-11:50am M, W, F

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**Required materials:**

* *Calculus: Early Transcendentals*, Briggs, Cochran, and Gillet, second edition with MyMathLab
* A graphing calculator
* Three ring binder with dividers

**Optional materials:**

* *Graphing Calculator Manual,* by Dennis Pence
* *Student Solutions Manual*

**Course Description:** The fourth course in the calculus sequence for students majoring in mathematics, science and engineering. Topics include vectors in 2 and 3- space, graphs, contour maps and equations of multivariable functions and partial derivatives, directional derivatives, optimization, cylindrical and spherical coordinates, multiple integrals and their applications.

**Learning Outcomes:**

Upon successful completion of this course, students will be able to:

Demonstrate an understanding of vectors, vector operations, and apply vectors to solve application problems in 2D and 3D. Graph and write equations for functions in 3D. Apply limits and derivatives to multivariate functions. Apply integration techniques to multivariate functions.

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

Homework 20pts

Quizzes/Projects/In class work 25pts

Two Tests @ 15pts each 30pts

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.**

**Homework:**

Homework will be assigned online. If you need a homework extension you should ask for that in person, not online

**Quizzes/Projects/ In class work**

Quizzes, projects and in class work will be announced and assigned in class. If you are absent it is your responsibility to contact a classmate to find out what you missed.

**Tests 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.

**Attendance:**

Attendance is expected. If you are not in class you cannot take quizzes or turn in assignments. No late assignments will be accepted and no quizzes will be made up. If you know you will not be in class on a certain day let me know in **advance, not after** **you are absent.** Make every effort to attend each class.

**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.

**Cell Phone Policy**:

* Do not use your cellphone in class, at all
* Cell phone should be out of sight and put away

**To be successful:**

* Be in class on time and **prepared**
* Know my **office hours** and come by to ask questions or clarify ideas, I can help!
* Work in **groups** outside of class (a good place to meet is the **LC**)
* When you or your group are struggling with a problem ask Gary or 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.

***Tentative* schedule of topics:**

Week

1. 11.1-11.3
2. 11.3 continued, 11.4
3. 11.5, 11.6? Review
4. Exam I, 12.1
5. 12.2, 12.3
6. 12.4, 12.5
7. 12.6, 12.7
8. 12.8 Exam II
9. 13.1, 13.2, 13.3
10. 13.4, 13.5, 13.6
11. [**Final**](https://www.linnbenton.edu/finals-schedule)-look at finals schedule