Winter 2020 Math 252 Integral Calculus

Instructor Information

Name: Claire Burke

Email: burkec@linnbenton.edu Email/text message responses may take up to one business day.

Virtual Office: Link in Moodle

Drop in Student Hours: Tuesdays 10am-12pm, Thursdays 6pm-8pm, or email for an appointment.

Course Description

The second course in the calculus sequence for students majoring in mathematics, science and engineering. Topics include techniques of integration, numerical integration, improper integrals, applications of integration, and an introduction to differential equations. Prerequisite: MTH 251 Differential Calculus.

What will you learn in this class?

- Calculate, interpret and communicate the concept of the integral.
- Integrate a variety of functions using multiple techniques.
- Recognize when and how to apply calculus tools to solve problems in business, the sciences and engineering.

What do you need for this class?

- Daily access to a computer and the internet. Optional: webcam
- MyLab Access Code (can be purchased from the bookstore or online with a credit card).
- About 15 hours per week of time committed to studying integral calculus

How will your grade be calculated?

Your grade will be calculated using a weighted average based on the following:

Category	Percent
Moodle Lessons	10%
MyLab Math Practice Problems	20%
Weekly Projects	25%
Term Project	15%
Concept Exam	15%
Proficiency Exam	15%

Letter grades will be assigned based on:

A	90%-100%
B	80%-89%
C	70%-79%
D	60%-69%
F	59% or below

“Y” or “WP” grades will NOT be given.

Overall grades will be rounded UP to the nearest whole percent. (ie 79.1% rounds to up to 80%)

What exactly is in each category? How will the class work?

For this class, we will use Moodle together with MyLab Math. Each week you will have several items in Moodle to complete in addition to some MyLab Math practice problems. You will need to log into Moodle and MyLab Math several times each week to participate in the course lessons and activities.

Zoom Group Meetings

We will also use zoom for group meetings in this class to discuss any problems or elaborate on concepts that weren't explained enough in the Moodle lessons/videos. Zoom meeting times will be scheduled based on a poll of everyone's availability. The meetings will be recorded and posted in Moodle. If you can't make it to a meeting one week, you can watch the video later.
To create your account, you can click here. Login with your LBCC (Google) email address and password. This will create your Zoom account automatically. Your first use of Zoom will require a one-time download. The Zoom mobile app works similarly.

Moodle Lessons

Each textbook section covered in this class will have 1 or 2 Moodle Lessons. Each lesson will contain a combination of videos and activities to help you explore and build the concepts of integral calculus. Your lowest 3 scores from the moodle lessons category will be dropped. Your grade for this category will be calculated by taking the average of the lesson scores.

MyLab Math Practice Problems

There will be 5-10 practice problems assigned in MyLab Math for each lesson in Moodle. You must get a MyLab Math account and keep up with assignments. Your lowest 3 practice problem set scores will be dropped from this category. Your grade for this category will be calculated by taking the average of the remaining problem set scores.

Weekly Projects

Projects will include applications of the material for the course. Specific guidelines for each project will be given and explained when the appropriate material has been covered in the course. You can expect about one smaller project each week. Projects will be completed or uploaded in Moodle. Your grade for this category will be calculated by taking the average of the weekly projects.

Term Project

There is one larger term project. Details about the project, including a rubric will be available in Moodle as soon as the relevant material is covered. The term project is due on the last day of classes.

Concept Exam

We will have just one "take home" style paper exam due in week 3. This concept exam will cover the concept of the integral. You may use any of your own notes created by you during the course, no other resources are allowed. Using resources other than your own notes, (including online sources, or other people) is considered cheating. Your exam, including clearly written supporting work, will need to be uploaded in Moodle as a pdf file by the due date. Exams cannot be accepted by email. Exams with problems that are not legible or do not have supporting work will receive a score of 0 for those problems.

Proficiency Exam
There is also one proficiency exam to be taken in MyLab Math. The proficiency exam will cover integration techniques. You can retake the exam up to one time to improve your score. You must upload a pdf of your completed work that fully supports your answers to receive credit for the exam. Supporting work that is not legible will receive a score of 0 for that problem.

What can you do to be successful in this class?

Attend Class: There is a strong link between good attendance and success in math courses. Attending an online class means logging in and making some progress on the course most days, it also means that you participate in the class discussions and activities. Your peers rely on your feedback and input.

Complete your work on time: The work in this course has been planned to help you learn. When work is completed late or last minute you miss out on fully engaging in the learning opportunity. Completing the work on time also helps prepare you for the next topic.
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Get HELP! If you have questions, PLEASE ask me! I have scheduled office hours but you're welcome to drop in at other times too. You can also reach me by text message through remind, or by email.

Form a study group: Your classmates are important resources for understanding and completing the homework. Often a fellow student can explain things in a different way than your instructor. You gain a deeper understanding of mathematical concepts when you express them in your own words and explain them to someone else. It is strongly recommended that you study together with other students in small groups.

Use the Learning Center:
The Math Desk WILL be operating Spring Term to support students working remotely via Zoom, with drop-in help available during their standard hours:

- 8am - 9pm Mon - Thu; 8am - 5pm Fri; 11am - 4pm Sat
- The link to connect 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.

Class Policies

Attendance
Your regular attendance and thoughtful participation in class are essential for your success in learning. Your regular online attendance is mandatory. If you do not login during the first week to Moodle **and** MyLab Math, you will be dropped for nonattendance. If there is a week that you will be unable to log in and participate, please let your instructor know. Students are responsible for any material, updates, or other information available in Moodle.

Special Circumstances or Accommodations

You should meet with your instructor during the first week of class if:

- You have a documented disability and need accommodations.
- Your instructor needs to know medical information about you.
- You need special arrangements in the event of an emergency.

If you have documented your disability, remember that you must make your request for accommodations through the Center for Accessibility Resources (CFAR) Online Services webpage every term in order to receive accommodations. If you believe you may need accommodations but are not yet registered with CFAR, please visit the CFAR Website for steps on how to apply for services or call (541) 917-4789.

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 at 541-917- 4877, or schedule an appointment on the web at www.linnbenton.edu/rrc . Our office can help students get connected to resources to help. Furthermore, please notify the instructor if you are comfortable in doing so. This will enable them to provide any resources that they may possess.

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.

Statement of Inclusion

The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. (related to Board Policy #1015)

Academic Honesty

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 with a recommendation for disciplinary action.

Course Calendar

See the attached document for a tentative course calendar.