THE OHIO STATE UNIVERSITY

Mathematics

College of Arts and Sciences

Syllabus: Math 1172
Autumn 2017

Course Materials

Required Text: MyMathLab and eBook for "Calculus for Scientists and Engineers: Early Transcendentals, OSU 2nd custom edition by Briggs, Cochran & Gillet (Pearson)" ISBN: 1323174311

Optional Text: Printed text for "Calculus for Scientists and Engineers: Early Transcendentals, OSU 2nd custom edition, by Briggs, Cochran & Gillet (Pearson)" ISBN: 1269753444. For additional textbook buying information, go to

https://math.osu.edu/sites/math.osu.edu/files/Calculus%20Book%20Buying%20Guide%202017-2018.pdf

How to get help in this course:

INSTRUCTOR INFORMATION (fill in for your specific instructors):

Lecturer:

Office:

Office Hours:

Email:

TA:

Office:

Office Hours:

Email:

MSLC FREE TUTORING HOURS

The Mathematics and Statistics Learning Center offers free tutoring services during the semester in Cockins Hall (CH) 014. For information about hours, please go to: https://mslc.osu.edu/courses/math/1172

Course Prerequisites:

Mathematics 1151 (with grade C- or better), equivalent transfer credit from another college or university as determined by the Math Advising Office (https://math.osu.edu/undergrad/advising-office), or Course Code L on the Math Placement Test

GE Information:

This mathematics course can be used, depending on your degree program, to satisfy the Quantitative and Logical Skills category of the General Education Requirement (GE).

Course Learning Objectives:

To understand the basic techniques and applications of Integral Calculus, including applications of integration, integration techniques, sequences and series, Taylor series and their applications, working with parametric equations and polar coordinates, developing the coordinate description of vectors, working with functions of several variables.

Course Management System:

We will be using Carmen Canvas for this course. Students are encouraged to log in and explore this learning management system.

Departmental Communication:

The department will communicate directly to you through Announcements on Canvas. We make a concerted effort to discuss important course information with your lecturers and TAs, but the only means by which we can communicate our expectations directly to you is through the Announcements section. Please make sure that you are aware that anything from the "Math 1172 Coordinator" is a message directly from the people who write your quizzes and exams!

Grades:

Math 1172 will use a percent based system to determine course grades. Each type of assessment (Exams, Quizzes, Projects, Homework, etc) will count as a certain percent of your final grade. To figure out your score for each category:

1. Take the number of points available in that category divided by the total number of points possible in that category.
2. Multiply this by the total percentage listed below. This will be your score.

For instance, if you score a 180/200 on the Final Exam, you would have a 90% on the Final. The final counts as 30% of your final score. Of this 30%, you would earn .9*30 = 27

To get your final course grade, calculate your score in each category and add together. Note that Canvas can do this for you automatically!

Assignment or category	Percent of Final Grade
Final Exam	**30%**
Midterm 1	**15%**
Midterm 2	**15%**
Midterm 3	**15%**
Quizzes (12)	**8% (drop 1)**
Homework	**10%**
Projects (4)	**8%**
Bonus Surveys	**1%**
Total	**102%**

You will notice that there is an extra 2% built in to the course. The best way to think about this is that you may earn a full 1% boost to your final grade by completing all of the homework assignments in the course and an additional 1% boost to your final grade by completing the bonus surveys!

Grading Scale:

A	Above 93	B-	80-83	D+	67-70
A-	90-93	C+	77-80	D	60-67
B+	87-90	C	73-77	E	Below 60
B	83-87	C-	70-73		

This grading scale will not be raised. Individual assignments, including exams, will not be curved, but the final grading scheme could be adjusted at the ***end*** of the semester. Class participation and effort will be important factors in decisions about borderline grades.

MyMathLab Online Homework:

You will receive an access code for MyMathLab if you purchase a new paper textbook. Alternatively, you can choose to buy MyMathLab access only, which includes the electronic version of the textbook. MyMathLab access is provided as a link through Carmen, not through the general MyMathLab website. The online homework will be worth 10% of the final course grade, and types and the amount of credit for each assignment is broken down as follows:

1. Every Wednesday night, there will be an MML assignment due at 11:59 PM that covers important material from the previous week's lectures. There are both conceptual and computational questions, ranging from easy to difficult. There additionally may be questions that draw on material from previous sections of the course. There are 14 such assignments, and each of these assignments counts for 5% of the total homework grade.

2. Every Monday night, there will be an MML assignment due at 11:59 PM that covers important material from Pre-calculus and Calculus 1 that will be important for the coming week's lectures. Many students struggle with new material because of difficulties with prerequisite material. These assignments are designed to review that material, and you can find personalized additional practice material on MML under you Study Plan. There are 11 such assignments. The first is an overview of important general prerequisite material for the course and is worth 10% of the final homework grade. Each of the following ten assignments counts for 2% of the final homework grade.

You may continue to work on assignments after the due date. Any questions you answer after the due date will count for half credit.

MathLab Study Plan:

Additional practice problems are available for you through the MyMathLab Study Plan. These questions are not for credit, but will help you study. They are personalized for each individual student based off of responses to the MML Assignments. In essence, they give a good assessment of what you should spend your time practicing!

Projects:

There will be four projects that explore the course material more deeply. The first project will examine applications of integration, the second will explore financial applications of (finite) geometric sums, the third will explore theoretical concepts involving Taylor series and the fourth will explore solving differential

equations using Taylor Series and Laplace Transformations. You will be allowed (and are thus encouraged) to work in groups on these! The due dates are listed on the calendar.

Recitations:

On Tuesdays and Thursdays, you will attend recitation on the previous days' lesson(s). This is where you can ask questions and practice using the course material you have learned in the lessons and MyMathLab homework and attempt exam-level questions.

Quizzes:

Quizzes will be given in recitation. Some quizzes may have a take-home component as well as an in-class component. The date and sections covered for each quiz is listed on the calendar. You may drop your low two quiz scores.

Exams:

Exams will consist of true/false, multiple choice, short answer, and free-response problems. Note that this format is potentially different from exams given in previous semesters. The location of the exams will be announced a week before each midterm.

Exam	Date and time	Make-Up
Midterm 1	Thursday, September 14 from 7:05-8:00 PM	Friday, September 15 from 8:00-8:55 AM
Midterm 2	Thursday, October 19 from 7:05-8:00 PM	Friday, October 20 from 8:00-8:55 AM
Midterm 3	Thursday, November 16 from 7:05-8:00 PM	Friday, November 17 from 8:00-8:55 AM
Final Exam	Monday, December 11 from 6:00-7:45 PM	Thursday, December 12 from 8:00-9:45 AM

It is your responsibility to check Carmen regularly. Any material posted there should be considered important for quizzes and exams.

Make-up Policy:

Make up exams will only be given in circumstances in which the student's absence is justifiable and well-documented. Excuses due to illness should be accompanied by a doctor's note. Students should contact their instructor as soon as possible in the event a makeup is needed and should always contact the instructor before the exam is given. Documentation of the emergency is required in order for make-up exams and quizzes to be considered for credit.

Calculator Policy:

Calculators will NOT be permitted during exams and quizzes. Cell phones and web-enable devices are also prohibited during exams.

Other Course Policies

Technology Problems

It is inevitable that technology will sometimes malfunction. Students are responsible for beginning assignments early enough to have time to ask for help with technical issues. Although reasonable accommodations for students when there are technical issues, the student will be responsible for documenting errors and seeking help in a timely fashion from both technical support and the instructor as

needed. No accommodations will be made for students who do not work actively to resolve their technical problems in a timely fashion.

Students who experience technical problems with Carmen or CarmenConnect should contact Carmen Support at 8–HELP or visit https://carmen-services.it.ohio-state.edu/carmen-help/students/

Students who experience technical problems with MyMathLab should contact Pearson Support at 888-883-1299 or visit http://mslc.osu.edu/mymathlab

Student participation expectations

You are expected to check Carmen at least **once every 24 hours on weekdays**. You should plan on working on this course every school day. There are frequent deadlines in this course, and students are expected to keep track of all deadlines. Students are expected to work ahead of those deadlines whenever possible to prevent last-minute problems. Students are expected to attend all recitation meetings.

Academic Misconduct Statement

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term academic misconduct includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee. For additional information, see http://studentaffairs.osu.edu/resource_csc.asp

Accommodations for accessibility

Requesting accommodations

Students with disabilities that have been certified by the Office of Disability Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The Office of Disability Services is located at 098 Baker Hall, 113 W. 12th Ave; telephone (614) 292-3307 and VRS (614) 429-1334; Webpage: http://www.ods.osu.edu