THE OHIO STATE UNIVERSITY

Mathematics

College of Arts and Sciences

Syllabus: Math 1172 – Spring 2020

Course Materials

Required Text: Ximera Calculus II (free online access through Canvas)

Optional Text 1: Active Calculus (https://activecalculus.org/)
Optional Text 2: Paul's Online Math Notes (http://tutorial.math.lamar.edu/Classes/CalcII/CalcII.aspx)

Please note that the Ximera textbook has been written by experienced OSU instructors in order to align with the course. You are not responsible for any topics covered in the optional texts that are not on the calendar or in Ximera. These optional texts are listed in order for you to have alternate presentations of the material.

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 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

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

Course Management System

We will be using Carmen Canvas for this course. The department will communicate directly to students 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 directly to students is through the Announcements section.

Anything in the Announcements section signed "The OSU Math Department" is a message directly from the people who write your quizzes and exams! You should check the Announcements section daily!

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. All ungraded assignments be treated as zeros in computing the final course grade. Percentage values of assignments are listed in a table below. To figure out your score for each category, please do the following.

1. Take the number of points you earn and divide by the number of points possible in that category.
2. Multiply this by the total percentage listed below. This will be your score for that category.

For instance, if you score a 180/200 on the Final Exam, you would have a 90% on the Final. The final counts as 25% of your final score. Of this 25%, you would earn .9*25 = 22.5. To compute your final course grade, calculate your score in each category and add them together.

Assignment or category	Percent of Final Grade
Final Exam	**25%**
Midterms	**45% (15% each)**
Quizzes (11)	**12% (drop 1)**
Online Textbook Completion	**4%**
Review Assignments	**2%**
Weekly Homework	**8%**
Projects (3)	**4.5% (1.5% each)**
Bonus Surveys	**.5%**
Total	**101%**

Please be careful when using Canvas to project final course percentages; failure to count ungraded assignments as zeros as well as other factors may lead to a discrepancy. To address any issues with final grades, it is the student's responsibility to provide a written calculation that exhibits the discrepancy to their lecturer.

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 nor adjusted. The final grading scheme **might** be adjusted at the **end of the semester**. Class participation will be important factors in decisions about borderline grades. You should thus refer only to the above table to determine your course grade.

This grading standard will be used to determine your final grade unless adjustments are made at the END of the semester. Neither your lecturers nor your TAs are able to answer *any* questions regarding grade adjustments until after ALL of the course grades have been entered.

Online Homework

All homework for this course is accessible through Canvas under the Assignments tab. Due dates for each assignment are listed on the course calendar. There are three types of homework for this course.

1. Most Monday nights and on the Wednesday of exam weeks, there will be a portion of the textbook that must be completed by 11:59 PM. It is highly encouraged that you work on the relevant sections of the textbook **before** going to lecture and complete them later that day. You may drop your low two scores.

2. Every Wednesday night, there will be an 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. You may drop your low two scores.

3. Most Friday nights, there will be an assignment due at 11:59 PM that covers important material from Pre-calculus and Calculus. Many students struggle with new material because of difficulties with prerequisite material. These assignments are designed to review that material. The first Monday of the semester, there is a comprehensive assignment that reviews the important prerequisite material. The following assignments will be shorter and focus on the prerequisite material that will be relevant for the coming week's lectures.

Late assignments will not be accepted except in the instance of a documented emergency. Sometimes, grade syncing issues may arise between Ximera and the Canvas gradebook. Students have two weeks after any affected assignments are due to inform their instructors of a discrepancy. After this time, no changes to the Canvas gradebook will be made.

Projects

There will be three projects that explore the course material more deeply. The due dates are listed on the calendar. The first project will examine applications of integration, and the second will explore financial applications of (finite) geometric sums. The final course project will explore approximation techniques for series. The material from the first project is relevant for the first midterm, but the material for the second and third projects will not be covered on any quizzes, midterms, or the final exam. You are highly encouraged to work on these together and ask your instructors for help. Each project be scored out of 30 points, and late projects will be penalized at 10 points per day late. Each project will be worth 2% towards the project total grade.

Recitations

On Tuesdays and Thursdays, you will attend recitation on the previous days' lesson(s). This is where you can ask questions and practice the material you have learned in lecture, the textbook, or the homework.

Quizzes

Quizzes will be given in recitation. Each quiz will generally cover the content from the textbook sections due on Monday and the corresponding assignments that are due the day before the quiz. Some quizzes may have a take-home component. The date for each quiz is listed on the calendar. You may drop your low quiz score.

Exams:

Exams will consist of true/false, multiple choice, short answer, and free-response problems. A study guide covering the topics for each exam will be posted on Canvas at least one week prior to the exam. The location of the exams will be announced a week before each midterm. Students are required to bring their IDs to the exam.

Exam	Date and time	Make-Up
Midterm 1	Thursday, January 30 from 7:05-8:20 PM	Friday, January 31 from 7:40-8:55 AM
Midterm 2	Thursday, February 27 from 6:30-7:45 PM	Friday, February 28 from 7:40-8:55 AM
Midterm 3	Thursday, April 2 from 6:30-7:45 PM	Friday, April 3 from 7:40-8:55 AM
Final Exam	Wednesday, April 22 from 8:00-9:55 PM	Thursday, April 23 from 7:40-8:55 AM

It is your responsibility to check Canvas regularly. The department will be making frequent announcements and any material posted is highly important for quizzes and exams!

Make-up Policy

Make up exams and quizzes will only be given in circumstances in which the student's absence is justifiable and well-documented. Excuses due to illness must 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, iPads, and all other web-enabled and electronic devices are also prohibited during exams.

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 will be, 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 problems in a timely fashion. Students who experience technical problems with Carmen should contact Carmen Support at 8–HELP or visit https://carmen-services.it.ohio-state.edu/carmen-help/students/. Students who experience problems with Ximera should contact their instructors immediately.

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 (Faculty Rule 3335-5-48.7). For additional information, see the Code of Student Conduct at http://studentlife.osu.edu/csc/.

Disability Services Statement

The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on a disability (including mental health, chronic or temporary medical conditions), please let your instructors know immediately so that they can privately discuss options. To establish reasonable accommodations, it is required that you register with Student Life Disability Services. After registration, make arrangements with your instructors as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion.

SLDS contact information: slds@osu.edu; 614-292-3307; 098 Baker Hall, 113 W. 12th Avenue.