

MAC2234 - Survey of Calculus Two

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Syllabus

Course Description

This is MAC2234 - “Survey of Calculus Two”. In this course we will cover: Integration (exact and numerical); Taylor series; basic probability; first-order separable differential equations; systems of linear equations, Gaussian elimination, matrices; partial differentiation, multiple integrals, Lagrange multipliers; linear programming and the simplex method.

A minimum grade of C (not C-) in MAC2234 satisfies three credits of the university General Education Math requirement.

Prerequisites

Minimum grade of C in MAC2233. Students should have a solid working knowledge of the concepts of first semester calculus, including the definition of the derivative, calculations of derivatives of elementary functions, applications of the derivative, exponential and logarithmic functions. A thorough grasp of algebra is assumed.

Course Materials

There are no required materials for this course; specifically there is no required textbook, clicker, or online homework code that you must purchase for this course.

In this course we will utilize a free online homework system known as Xronos. This work is supported by the Office of the Provost and the College of Liberal Arts and Sciences. The platform is accessible through the Canvas site via the “assignments” tab. More details are available on Canvas.

Note that any Recommended/Required reading assignments will be listed in Canvas, either on the pages for each week of the course or in a Recommended progression table. In addition, announcements and/or emails will be sent out to supplement the list of required/recommended reading as needed.

Course Goals:

By the end of this course, students will understand concepts of integral calculus, applications of differential equations, the calculus of functions of several variables, systems of linear equations, and linear programming problems with a focus on applications in business, accounting, and finance.

Online Resources

E-learning Canvas, a UF course management system, is located at <https://elearning.ufl.edu>. Use your Gatorlink username and password to login. All course information including your grade, course homepage, syllabus, lecture videos, office hours, test locations, mail tool, discussion forum, free help information, etc. can be accessed from this site. **You are responsible for verifying that your grades are accurate. There is no grade dispute at the end of the semester** (see below for the One Week Policy).

Instructional Design

Students will learn material via online lectures. These come in two varieties: (i) presentations of the material using prepared slides, and (ii) examples worked out by hand by the instructor, captured on video. Students are expected to read the corresponding sections in the text, work practice and homework problems, and successfully complete associated quizzes. Exams will be given online and monitored by HonorLock.

One Week Policy

Please be aware of the **One Week Policy**: Once you receive a graded paper back, you have **one week** to contest the grade and initiate any grade disputes. Once this one week passes, **there are no further disputes**. In particular, once the end of the semester nears, you *cannot* start disputing, say, grades from the first week or two.

Calculators

A graphing calculator and Wolframalpha are useful as study and learning tools when used appropriately, **but they are not essential**. I also recommend the online graphing calculator Desmos (<https://www.desmos.com>), and the app GeoGebra (<https://www.geogebra.org>) to help you as you learn the material.

Due to the numeric content of this course, you will be allowed to use a non graphing physical calculator (any physical calculator that doesn't show graphs of functions and isn't programmable with arbitrary code is fine) or you may use Desmos online for a calculator if you would rather. The general principle here is that you should only need to use a calculator to get numeric values for difficult computations; any kind of actual graphing or symbolic manipulation is not needed (and shouldn't be used on a calculator).

Incomplete Policy

A grade of I (incomplete) will be considered only if you meet the Math Department criteria which is found at <https://www.math.ufl.edu>. If you meet the criteria you must see the instructor before the beginning of finals week to be considered for an I. A grade of I only allows you to make up your incomplete work. You cannot redo any previously completed work.

Online Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://gatorevals.aa.ufl.edu/>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open.

Advising and Help

- For issues with technical difficulties for Canvas, please contact the UF Help Desk at:

- Website: <https://helpdesk.ufl.edu>
- Phone: (352) 392-HELP (4357)
- Walk-in: HUB 132

Note: Any requests for make-ups due to technical issues **MUST** be accompanied by the ticket number received from the Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You **MUST** e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

- For all concerns with MAC2234, please talk to your TA or Instructor! Office hours will be posted and are regular times when they are available to answer questions, discuss grades, advise students on future classes, or help students in any available way. You do **not** need an appointment to visit during office hours. If you need to meet outside of office hours, please contact your TA or Instructor for an appointment.
- In addition, there are several other free resources available to you:
 - The Teaching Center Math Lab, located at SE Broward Hall, offers free informal tutoring. You may want to attend different hours to find the tutors with whom you feel most comfortable. Also the Little 215 Tutoring Center provides free tutoring for courses up to Calculus 1. Go to <https://www.teachingcenter.ufl.edu> to find their hours. You can also request free one-on-one tutoring.
 - A list of qualified tutors for hire is available at <https://www.math.ufl.edu><https://www.math.ufl.edu>.
 - Other resources are available at <https://www.distance.ufl.edu/getting-help> for:
 - * Counseling and Wellness resources
 - * Disability resources
 - * Resources for handling student concerns and complaints
 - * Library Help Desk support
- Should you have any complaints with your experience in this course please visit <https://www.distance.ufl.edu/student-complaints> to submit a complaint.

CLASS DEMEANOR OR NETIQUETTE:

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. A guide to online etiquette is available at:

<http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>

Honor Code

All students are required to abide by the Academic Honesty Guidelines which have been accepted by the University. The academic community of students and faculty at the University of Florida strives to develop, sustain and protect an environment of honesty, trust and respect. Students are expected to pursue knowledge with integrity.

Violations of the Academic Honesty Guidelines shall result in judicial action and a student being subject to the sanctions in paragraph XIV of the Student Code of Conduct. The conduct set forth hereinafter constitutes a violation of the Academic Honesty Guidelines (University of Florida Rule 6C1-4.017). You may find the Student Honor Code and read more about student rights and responsibilities concerning academic honesty at the link <https://www.dso.ufl.edu/sccr/>.

Students with Disabilities

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting: <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester. If a student does not supply the appropriate documentation in a timely fashion, the instructor may not be able to accommodate the student in a timely manner.

Online Privacy

ONLINE PRIVACY: Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

Grading

The Xronos homework assignments are worth 10 points each. There are 13 of them, making 130 points possible but homework counts only 100 points in your total grade; that is, homework grades exceeding 100 will count only for 100 points in your final grade. Each lecture has a short quiz attached worth 2 points; you may accumulate a total of 50 points toward your grade with these. Each week contains a quiz at the end. These are worth 5 points each; the lowest three scores are dropped. There are four exams worth 100 points each; the lowest exam grade is dropped. Your grade is then determined by the total number of points out of 500 according to the following chart.

Assignment	Percentage of Total	Grade	Percent Range	Grade	Percent Range
Xronos (10 of 13)	20	A	90-100	C	67-73.99
Lecture Quizzes (25 of 30)	10	A-	87-89.99	C-	64-66.99
Weekly Quizzes (10 of 13)	10	B+	84-86.99	D+	60-63.99
Exams (3 of 4)	60	B	80-83.99	D	57-59.99
Total	100	B-	77-79.99	D-	54-56.99
		C+	74-76.99	E	0-53.99

Online Coursework

In this course we will utilize an in-house interactive online homework system developed by the math department at UF. This platform, called Xronos, is free of charge. We will be using Xronos for the homework. There are 13 homework assignments, of which the best 10 will be included in your homework calculation.

There are some notes to keep in mind about how Xronos works:

- You **MUST** access Xronos via Canvas **every single time you do your homework**. Do not bookmark the page, do not save the page, do not access Xronos directly via a link – you **MUST** go through Canvas **EVERY TIME**. If you do not – you will not receive credit for the problems you solve. This cannot be stressed enough.
- Canvas may (and almost certainly will, often) tell you that a grade has been submitted for the “Xronos assignment” whenever you work on it. Rest assured that canvas really means that a grade **update** has been submitted, not a final grade. You can continue working on Xronos and accumulating points, right up until the Xronos assignment is due; there is no “final submission” of a grade prior to that, regardless of what canvas might try to tell you.

Makeup Policies

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies.

Make-up exams are given only for extreme unforeseen circumstances. In case of illness, documentation will be required. For technological problems, see the Getting Help section.

Calendar

Please see the Canvas Calendar for a weekly outline of topics, coursework, and due dates; including exams, quizzes, and homework. You can also find due dates for each weeks assignments listed on the respective week’s page.