

SURVEY OF CALCULUS II

MAC 2234

3 CREDITS

SPRING 2023

INSTRUCTOR Dr. Philip Boyland, 338 Little Hall, boyland@ufl.edu, 352-294-2350

OFFICE HOURS Monday 2:00 – 3:00, Thursday 1:00 – 2:00 (subject to change)

COURSE WEBSITE: In Canvas at <http://elearning.ufl.edu>

COURSE COMMUNICATIONS: Please contact Dr. Boyland **via the Canvas message tool** for all class issues.

REQUIRED OR RECOMMENDED TEXTBOOKS: None. Links to free on-line recommended reading assignments are on the pages for each week of the course.

MATERIALS AND SUPPLIES FEES: None

COURSE DESCRIPTION: 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 simplex method

PREREQUISITE KNOWLEDGE AND SKILLS: 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 GOALS AND/OR OBJECTIVES: 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.

INSTRUCTIONAL METHODS: Students will learn material via online video lectures. These come in two varieties: (i) presentations of the material using prepared slides, and (ii)

examples worked by hand by the instructor, captured on video. Students are expected to read the corresponding sections in on-line resources, work practice and homework problems, and successfully complete associated quizzes. Exams will be given online and monitored by HonorLock.

COURSE POLICIES:

ATTENDANCE POLICY: Students are expected to keep up with the schedule of lectures, homework, and quizzes provided on the course calendar. Should a student need to withdraw from the course, the last day to do so is January 13, 2022. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

QUIZ/EXAM DATES/POLICIES: Exams online in Canvas on the following dates: February 7, March 21, April 11, April 25. See information pages in Canvas for more details.

MAKE-UP POLICY: 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 below.

ASSIGNMENT POLICY: All assignment deadlines will be clearly indicated on the course calendar in Canvas. Late assignments will not be accepted

COURSE TECHNOLOGY: Online homework will be assigned using Xronos. See the introduction video in Canvas. Links to homework are in the Assignments tab in Canvas. For technical issues related to Canvas or other UF technology, contact the UFIT Help Desk.

- <http://helpdesk.ufl.edu>
- (352) 392-HELP - select option 2

UF POLICIES:

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

UNIVERSITY POLICY ON ACADEMIC CONDUCT: UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

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>

ONLINE COURSE EVALUATIONS: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. [Click here for guidance on how to give feedback in a professional and respectful manner](#). Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via ufl.bluera.com/ufl/. [Summaries of course evaluation results are available to students here.](#)

ONLINE PRIVACY: Any on-line live class sessions may be audio or visually recorded for students in the class 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.

DIVERSITY, EQUITY, AND INCLUSION: The Mathematics Department is committed to diversity and inclusion of all students. We acknowledge, respect, and value the diverse nature, background, and perspective of students and believe that it furthers academic

achievements. It is our intent to present materials and activities that are respectful of diversity: race, color, creed, gender, gender identity, sexual orientation, age, religious status, national origin, ethnicity, disability, socioeconomic status, and any other distinguishing qualities.

GETTING HELP:

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

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

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.

Other resources are available at <http://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 <http://www.distance.ufl.edu/student-complaints> to submit a complaint.

GRADING POLICIES:

METHODS BY WHICH STUDENTS WILL BE EVALUATED AND THEIR GRADE DETERMINED

INFORMATION ON CURRENT UF GRADING POLICIES FOR ASSIGNING GRADE POINTS:

- General information about UF grading policies may be found at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Assignment	Points or percentage
Online Homework (Xronos, drop lowest three)	20%
Lecture Quizzes (x30, drop lowest five)	10%
Weekly Quizzes (drop lowest three)	10%
Exams (x4, drop lowest one)	60%
Total	100%

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A	90 - 100%	C	67 - 73.99%
A-	87 - 89.99%	C-	64 - 66.99%
B+	84 - 86.99%	D+	60 - 63.99%
B	80 - 83.99%	D	57 - 59.99%
B-	77 - 79.99%	D-	54 - 56.99%
C+	74 - 76.99%	E	0 - 53.99%

GRADING SCALE:

NOTE: A grade of C- **is not** considered a passing grade for the purposes of degree completion or meeting prerequisites.

If you have a concern about a particular assignment grade, you must discuss it with the instructor within one week from the posting of the grade. Disputed points will not be reviewed at the end of the term.

COURSE SCHEDULE:

CRITICAL DATES: Consult calendar in Canvas for exam dates.

A WEEKLY SCHEDULE OF TOPICS AND ASSIGNMENTS:

See the online calendar in Canvas for a complete schedule of assignments.

Disclaimer: This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.