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1 Course Overview

MEETING PLACE/TIME: Online

INSTRUCTOR:

Mike Binder

Office: [Little 417](#)

Email: mikebinder@ufl.edu

Office hours: Online (email/discussion board)

1.1 Content

Major topics covered in MAC 2234 include: Sequences, geometric and Taylor series; systems of linear equations, Gaussian elimination, matrices, determinants and vectors; partial differentiation, multiple integrals; applications to marginal analysis, least-squares and Lagrange multipliers.

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.

Students will learn material via online 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 the text, work practice and homework problems, and successfully complete associated quizzes. Exams will be given online and monitored by ProctorU.

1.2 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.

1.3 Necessary Materials

- TEXTBOOKS:

Note: E-book versions of the textbooks are included with WebAssign.

Tan, Soo. *Applied Calculus for the Managerial, Life, and Social Sciences*. Cengage Learning. 9th edition (2013). ISBN: 978-1133607717.

Tan, Soo. *Finite Mathematics for the Managerial, Life, and Social Sciences*. Cengage Learning. 11th edition (2014). ISBN: 978-1285464657.

- WEBASSIGN: All students are required to have access to WebAssign. This includes an e-book version of the textbook. A hard copy of the text is *not* required. A WebAssign access code may be purchased via UF's "Opt-In" utility, which bills directly to your student account: <https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED>. Check Canvas - Start Here - Textbook and WebAssign Registration for details.

At the beginning of the semester, there is a two week grace period to use WebAssign before your must pay for access.

- CALCULATOR: A calculator and similar tools (eg. WolframAlpha) can be useful when used appropriately, but are not required. You should learn to solve problems by hand, though you will be permitted to use a basic non-scientific calculator. A basic non-scientific calculator has the ability to add, subtract, multiply, and divide, as well as the ability to take square roots (and perhaps buttons for percentages and storing values in memory). *No scientific or graphing calculators are allowed on quizzes or on the exams.*

2 Exams ([back to top](#))

This course uses the online proctoring service [ProctorU](#) for exams. The exams are taken on WebAssign under the supervision of a proctor from ProctorU. You must register with ProctorU for each exam at least 4 days prior to the exam date. It is highly recommended that you reserve your exam time slots (1:59 AM - 11:59 PM) for all of your exams early in the semester in order to guarantee you can take the exam at the most convenient time for you. The exams will take place on:

Exam 1 Thur, June 13th
Exam 2 Thur, July 11th
Exam 3 Thur, July 25th
Final Exam Thur, Aug. 8th

Students are responsible for material covered in the course, including lectures, homeworks, and quizzes.

For each exam, you should have only the following items: pencils or pens, your Gator1 ID card or a government-issued picture ID, a basic non-scientific calculator, and up to 10 sheets of completely

blank, white, scratch paper (no holes, lines, printing, etc). No scientific or graphing calculators are allowed. *No cell phones, no notes, no calculator manuals, no books, no outside help.*

The exams have to be accessed from Canvas → WebAssign Homework (same way you access your regular homeworks).

For the WebAssign exams and all other assignments, it is recommended to use an internet browser other than the Internet Explorer. Some features of WebAssign do not work properly with Internet Explorer. It is your responsibility to make sure that you have a stable, reliable internet connection when taking quizzes and exams. *No special make-ups will be given due to technical problems.*

3 Grade Overview ([back to top](#))

- WEEKLY QUIZZES:

Each week, you will take one weekly quiz. Weekly quizzes are worth 7 points each; the lowest three scores are dropped. You have one attempt and 60 minutes for each quiz.

- HOMEWORK:

Homework is absolutely critical to your success in this course. The only way to learn how to do mathematics is by doing mathematics. The WebAssign homework assignments are worth 4 points each. There are 13 of them, but homework counts only 40 points in your total grade. At the end of the semester your total points for WebAssign homework will be recorded in Canvas. To access your Homework use the WebAssign Homework bar from the menu on the left hand side in Canvas.

- EXAMS:

There are three exams worth 80 points each and a final exam worth 150 points. IF IT HELPS, you may substitute your final exam score for the lowest exam score (rescaled appropriately, of course, to compensate for the disparity in point values).

- MAKE-UP AND EXTENSION POLICY:

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

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.

4 Grade Distribution [\(back to top\)](#)

To summarize, your final grade in the course will be derived as follows:

WebAssign HW	40 points
Weekly Quizzes (best 10 of 13)	70 points
Exams	$3 \times 80 \text{ points} = 240 \text{ points}$
Final Exam	150 points
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Total	500 points

This grade will then be converted to a letter grade using the following grading scale:

≥ 450.00	A	335.00 - 369.99	C
435.00 - 449.99	A-	320.00 - 334.99	C-
420.00 - 434.99	B+	300 - 319.99	D+
400.00 - 419.99	B	285.00 - 299.99	D
385.00 - 399.99	B-	270 - 284.99	D-
370.00 - 384.99	C+	≤ 269.99	E

Note: Any grade lower than C does not give Gordon Rule or General Education credit. Extra assignments for individual students to improve a grade are not possible. There will be no review of disputed points at the end of the semester. All grade concerns must be settled within one week of the receiving the grade on the assignment. For a complete explanation of current policies for assigning grade points, refer to the UF undergraduate catalog: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

5 General Information ([back to top](#))

5.1 Getting Help

TECHNICAL DIFFICULTIES

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.

MATHEMATICAL OR OTHER DIFFICULTIES

There are many resources available to help you succeed in the course. In addition to your instructor, resources include:

1. The Teaching Center Math Lab, located at SE Broward Hall, is a tutorial service staffed by trained math and science students to provide help with your calculus questions and homework. Tutors will be glad to provide guidance on specific problems after you have attempted them on your own. You may want to attend different hours to find the tutors with whom you feel most comfortable. You can also request free one-on-one tutoring. Check the webpage, <https://teachingcenter.ufl.edu/> for a map of the location, tutoring hours, and more. All students are encouraged to use the resources of the Broward teaching center.
2. Office of Academic Support offers free one-on-one and small group tutoring sessions to any UF students. See <http://oas.aa.ufl.edu/programs/tutoring/> for details.
3. UF Counseling Center provides information and workshops on developing Math Confidence. The center also offers counseling support in case of issues with academics, adjusting to the stress of college life, or personal challenges. Please use this resource before you get overwhelmed! You may contact the center at <https://counseling.ufl.edu/>.

4. Textbooks and solutions manuals are located at the reserve desks at Marston Science Library.

5.2 Accommodations for Students with Disabilities

Students requesting class and exam accommodations must first register with the Dean of Students Office Disability Resource Center (DRC). Information about the DRC is available at <https://drc.dso.ufl.edu/>. The DRC will provide a documentation letter to the student to present to the course instructor. This must be done as early as possible in the semester (i.e. at least 7 business days before the first exam), so there is adequate time to make proper accommodations.

5.3 Academic Honesty Policy

All University of Florida 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 honor and integrity by abiding by the Honor Code.

As such, on all work submitted for credit by students at the University of Florida, the following pledge is either explicitly required or implied:

On my honor, I have neither given nor received unauthorized aid in doing this assignment.

You should read and familiarize yourself with the Honor Code, available at <https://sccr.dso.ufl.edu/students/student-conduct-code/>. It specifies a number of behaviors that are in violation, 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.

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.