MAC 2313: CALCULUS 3, SUMMER 2020 SYLLABUS/CALENDAR

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The course homepage is located in e-Learning CANVAS, http://elearning.ufl.edu/ and you can find the information of instructors' office hours on our Canvas homepage.

IMPORTANT: While taking this class online, you MUST take the exams/quizzes with Honorlock on the dates shown on the course calendar and you MUST have steady internet access.

MAC 2313 Course Calendar, Summer 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	May 11 Introduction Lecture 0	12 Lecture 1 Drop/Add deadline	13 HW L0	14 Lecture 2	15 Lecture 3 Syllabus Quiz
17 HW 1 & 2	18 Lecture 4	19 Lecture 5	20 HW 3 & 4 **Quiz 1 (L0-4)**	21 Lecture 6	22 Lecture 7
24 HW 5 & 6	25 **HOLIDAY NO CLASS**	26 Lecture 8	27 HW 7 & 8 **Quiz 2 (L5-8)**	28 Review Practice Exam 1	29 Review
31 Module 1 Assignments	June 1 **EXAM 1 (L0-8)**	2 Lecture 9	3	4 Lecture 10	5 Lecture 11
7 HW 9 & 10	8 Lecture 12	9 Lecture 13	10 HW 11 & 12 **Quiz 3 (L9-12)**	11 Lecture 14	12 Lecture 15
14 HW 13 & 14	15 Lecture 16	16 Review Practice Exam 2	17 HW 15 & 16 **Quiz 4 (L13-16)**	18 Review Module 2 Assignments	19 **EXAM 2 (L9-16)**
21	June 22—July 3 **SUMMER BREAK (2 weeks)**				
July 5	6 Lecture 17	7 Lecture 18	8 HW 17	9 Lecture 19	10 Lecture 20
12 HW 18 & 19	13 Lecture 21 (Cylindrical)	14 Lecture 21 (Spherical)	15 HW 20 & 21-1 **Quiz 5 (L17-20)**	16 Lecture 22	17 Lecture 22
19 HW 21-2 HW 22	20 Review Practice Exam 3	21 Review	22 Module 3 Assignments **Quiz 6 (L21-22)**	23 **EXAM 3 (L17-22)**	24 Lecture 23
26	27 Lecture 24	28 Lecture 25	29 HW 23 & 24	30 Lecture 26	31 Lecture 27
Aug 2 HW 25 & 26	3 Lecture 28	4 Lecture 29	5 HW 27 & 28 **Quiz 7 (L23-26)**	6 Lecture 29 & 30	7 Lecture 30 Withdrawal deadline
9 HW 29 & 30	10 Review Practice Final Exam	11 Review	12 Module 4 Assignments **Quiz 8 (L27-30)**	13 **FINAL EXAM (L23-30)**	14

Exams are proctored by Honorlock and they are open from 12AM-11:59PM (EDT) on the dates shown in the calendar.

All assignments shown in blue are the <u>suggested</u> completion date of the assignment

All Lecture Questions, Xronos online assignments, and written HW for each module are <u>officially</u> due at 11:59PM (EDT) the day before each exam.

1. INTRODUCTION

1a <u>**COURSE CONTENT:**</u> MAC 2313 is the third semester in the calculus sequence and it gives a thorough introduction to multi-variable calculus. The course is divided into four modules.

- Module 1 (Lectures 0–8) Geometry of Space & Vector Functions

- Module 2 (Lectures 9–16) Differentiation of Functions of Several Variables

- Module 3 (Lecture 17–22) Multiple Integration

- Module 4 (Lectures 23–30) Vector Calculus including line integrals, surface integrals, Green's Theorem, Stokes' Theorem, and the Divergence Theorem

1b <u>**PREREQUISITES:**</u> MAC 2312 with a minimum grade of C.

To be successful in this course, you should have mastery of precalculus algebra and trigonometry. Students should be able to do arithmetic without a calculator. It is assumed that students are proficient in standard Calculus 1 and 2 topics, including limits, continuity, differentiation, and integration techniques.

1c <u>**REQUIRED MATERIALS**</u> :

Textbook: There are no required textbooks for this course. For anyone who wishes to study from a textbook, we suggest this free online textbook Openstx Calculus Volume 3. Additionally, you may find any edition of the Calculus textbooks by Stewart, or Rogawski, helpful.

Computer access and requirements: A reliable internet and a computer are required. All assignments should be taken on a computer, not cell phone or tablet, since there may be compatibility issues with Canvas. The recommend browser for this online course is Chrome and DO NOT use Safari and Internet Explorer.

NO CALCULATORS are allowed on quizzes or on exams. A graphing calculator and Wolframalpha are useful as a study and learning tool when used <u>appropriately</u>, but are not essential. Graphing in 3-dimensional space can be challenging sometime. We recommend online graphing calculators GeoGebra or CalcPlot3D to help you as you learn 3D graphing. Remember that Calculus is a collection of ideas that are not mastered through calculator skills.

1d <u>**E-LEARNING CANVAS:**</u> All course information including lecture outlines, lecture videos, office hours, and exam information are posted on CANVAS.

All grades are posted in the CANVAS gradebook. You are responsible for verifying that those grades are accurate. **You have <u>one week</u> after a score has been posted to contact your instructor to resolve any grade concerns.** We will not consider any grading disputes nor make any grades adjustment at the end of the semester.

1e <u>**LECTURES:**</u> The lecture videos provide the main presentation of course material, and are accessed through the Canvas modules. To stay current with the course, we recommend watching the videos daily following the schedule posted on the course calendar. You should watch the lectures and answer the corresponding Lecture Questions before attempting homework. You may post questions on the course discussion board if you need clarification of a topic.

Lecture notes outlines: You can download and print them out from each lecture page in Canvas. Or you have an option to purchase the printed outlines from the Target Copy Center. It is important that you have a hard copy of the lecture notes in order to follow the lectures easier when watching the videos.

1f <u>**FREE HELP:**</u> Instructor's office hours will be posted in CANVAS and they are held through Zoom conferences. In addition to instructor's office hours, the following resources are available.

- The Teaching Center Math Lab is a tutorial service staffed by trained math and science students to provide help with your calculus questions and homework.
- Office of Academic Support offers free one-on-one and small group tutoring sessions to any UF students.
- U Matter, We Care provides students in distress with support and coordination of the wide variety of appropriate resources. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. Remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.
- UF Counseling Center provides information and helps students who are experiencing test-related stress and anxiety or having any other concerns.

1g <u>**SUCCESS**</u> in MAC 2313 depends largely on your attitude and effort.

- **Keep up with the lecture videos** and do not fall behind. You may find it beneficial to work daily on the course material.
- **Complete assignments** on time. Get an early start on all assignments. If you get stuck, watch the lecture again and/or attend office hours for timely help. Do not let questions go unanswered.

Discussion Board: We encourage students to work together, and an important resource to facilitate communication in an online course is the Discussions Board in CANVAS. You should check the Discussion Board regularly, posting questions and answers. The effort of asking questions, communicating ideas with fellow students, as well as writing solutions for these posts, are effective tools in helping you better understand calculus concepts. This is YOUR forum, take advantage of it by participating in it.

We want you to be successful! Remember that you are the only person who can walk the path to your success. Your instructor is there for you, but you need to stay on top of what's going on in class and take the initiative to reach out when you need help.

1h <u>**STUDENTS WITH LEARNING DISABILITIES:**</u> Students requesting class and exam accommodations must first register with the Disability Resource Center(DRC) and then you need to send your accommodation letter to the course coordinator. Students with disabilities should follow this procedure as early as possible in the semester (adhering to DRC deadlines) since the accommodations are not retroactive.

1i <u>**ACADEMIC HONESTY:**</u> UF students are bound by

The Honor Pledge
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."

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 Mathematics Department expects you to follow the Student Honor Code. We are bound by university policy to report any instance of suspected cheating to the proper authorities. This policy will be rigorously upheld at all times in this course. 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 your instructor.

2. TESTING

2a EXAMS: There will be three 90-minute unit exams and one 2-hour final exam. The exams will be given in Canvas and administered through Honorlock.

- Each exam consists of multiple choice and fill-in-the-blank questions.

- Each exam opens for a 24-hour period on the exam date shown in the course calendar. We recommend starting your test no later than 10PM (no later than 9:30PM for the final exam) since all exams are closed at midnight.

- You can use up to 10 sheets of scratch paper for each exam.

Missing an exam due to negligence will result in a severe deduction on your exam grade.

2b IMPORTANT EXAM POLICIES: MAC 2313 requires that students take online exams through Honorlock on the listed dates. There are no exceptions to this. Students with conflicts, including scheduled working hours or traveling, must make advance arrangements to be present at the test.

The following applies to all exams:

(1) Students are responsible for material covered in lectures and assignments.

(2) Prior to test start, you will need the following:
- working web camera and microphone
- stable internet connection
- Google Chrome browser and Honorlock Chrome extension

(3) Bring only the following while taking an online exam with Honorlock: Government issued photo ID (or Student Gator One ID) with a legible signature and blank scratch paper (up to 10 sheets).

(4) The following items/actions are not permitted:
- No writing visible on desk or on walls. Make sure music/televisions are not playing in the background.
- No websites other than Canvas and the Honorlock proctoring extension should be used or open while taking a proctored exam.
- Close all other programs and/or windows on the testing computer prior to logging into the proctored test environment.
- Communication or receiving assistance from others is not permitted during a proctored assessment.
- No other persons except the test-taker should be in the room during testing.
- Using a phone or any other electronic device, other than your test-taking device, is not permitted. Headphones or smart watches are not permitted.
- Remain visible in the web camera during the entire duration of the exam.
- Leaving the room during the testing period is not permitted.
- Dual monitors are not permitted.

See Section 3g for the Makeup Policies.

3. GRADING

3a <u>COURSE GRADE:</u> Your course grade is based on 500 points accumulated as follows:

Lecture Questions (1 point each, drop the two lowest grades)	30
Xronos assignments (drop the two lowest grades)	50
Written assignments (2 points each)	8
Quizzes (12 points each, drop the two lowest grades)	72
Semester exams (80 points each)	240
Final exam	<u>100</u>
	500

The total sum of points is your numerical score, which will be converted to a letter grade according to the following scale.

A	450 - 500 pts	C	340 - 359.99 pts
A−	435 - 449.99 pts	C−*	320 - 339.99 pts
B+	420 - 434.99 pts	D+	300 - 319.99 pts
B	400 - 419.99 pts	D	280 - 299.99 pts
B−	380 - 399.99 pts	D−	260 - 279.99 pts
C+	360 - 379.99 pts	E	0 - 259.99 pts

The course grade is determined by the number of <u>points</u> you have, not by the percentage, and will be strictly enforced. There will be no additional curve in this course, and extra assignments for individual students to improve a grade are NOT possible.

For those taking the S-U option: S [340 - 500 points]   U [0 - 359.99 points]

*NOTE: A grade of C− DOES NOT give Gordon Rule or General Education credit!

3b <u>LECTURE QUESTIONS:</u> There are 32 sets of lecture questions on Canvas given on the material of the lectures. They are untimed, open book and open notes. You have 2 attempts for each assignment. Students are expected to work individually on these assignments. The lecture questions for each module are due the night before that exam. The two lowest LQ grades will be dropped at the end of the semester.

3c <u>HOMEWORK ASSIGNMENTS:</u> In this course we will utilize the online platform Xronos which is developed by the math department at UF. Online homework assignments will be assigned for each lecture and they are suggested to be completed by the due dates shown on the course calendar. The online assignments for each module are due the night before that exam. The two lowest online homework grades will be dropped at the end of the semester.

IMPORTANT: <u>You MUST access Xronos via Canvas every single time you do your homework.</u> 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.

When you work on Xronos assignments, you need to write down your work neatly for all assignments in addition to submitting answers online. One set of the Xronos assignments for each module will be collected by your instructor and you will upload the written assignment (as a pdf file) to Canvas for grading the night before each exam. The written assignments will be graded on a scale of $0 - 2$ points; each is checked for completeness and one problem will be graded for accuracy. The work must be your own and not taken from other sources.

Do not try to complete an assignment in one sitting; start early instead of waiting until the due date to avoid missing the deadline.

3d QUIZZES: Eight quizzes will be given on Canvas and the two lowest quiz grades will be dropped at the end of the semester. Each quiz is proctored by **Honorlock**, and you will have 45 minutes to finish it by its due date. You must make yourself available about an hour for each quiz. The clock start ticking once you open a quiz and it will be closed after 45 minutes. No aids will be allowed for quizzes but you can use up to 2 sheets of blank scratch paper.

DO NOT wait until the last minute to submit your quiz and we will NOT extend time for computer issues.

3e EXAMS: All exams are given online in Canvas and proctored by Honorlock. Your exam grade will be available in Canvas gradebook once your exam is submitted. The exams are locked after submission. If you wish to review the problems that you miss on the test, you may request a private online conference with your instructor within one week of the exam.

3f EXTRA CREDIT: You may earn additional points in the following ways:

• SYLLABUS QUIZ (3 points): After reading the course syllabus carefully, you have a chance to earn up to 3 bonus points by completing the syllabus quiz on Canvas before the deadline. We expect students understand our course policies when submitting this quiz.

• DISCUSSION BOARD PARTICIPATION (4 points): We encourage you to utilize the Discussion Boards on Canvas regularly to ask and answer questions about course material and homework. You can earn up to 1 bonus point per module by responding to other students' unanswered math questions. Answers must be appropriate and relate to course material to earn credit.

• REPORTING XRONOS ERROR (2 points): This is the first semester that we pilot the Xronos online homework system and we need your help to fix errors on Xronos assignments. If you find an error on a Xronos problem, you may have a chance to earn 1 bonus point by reporting it to the course coordinator. Maximum 2 points can be earned in this category during the semester.

• EXAM PREPARATION (12 points): A practice exam will be posted on Canvas a few days before each test. You can earn up to 3 bonus points by completing it on Canvas before its due date. Practice exams can used to assess your readiness for the coming exam.

3g <u>**MAKE-UP POLICIES:**</u>

- **LECTURE QUESTIONS, XRONOS AND WRITTEN HW:** no make-ups. These assignments are due the night before each exam. Students should have completed them before taking the test. In addition, there are 2 drops on Lecture Questions and Xronos assignments.

- **QUIZZES:** no make-ups since we offer 2 drops on Canvas quizzes

- **EXAMS:** Students must provide valid documentation to the course coordinator for requesting a make-up exam due to a scheduling conflict at least one week before the test to avoid penalty. We do not consider <u>traveling or lack of internet access</u> as a valid excuse for a make-up exam. If illness or other extenuating circumstances force you to miss an exam, provide valid documentation and contact Dr. Huang as soon as possible (no later than 24 hours after the exam) for approval to schedule a make-up exam.

- **BONUS ASSIGNMENTS:** no make-ups on any extra credit assignments

3h <u>**ONE WEEK POLICY:**</u> All grades are posted in the Canvas gradebook. You are responsible for verifying all grades are accurate. You have one week after a score is available to discuss any grade concerns with your instructor. There is no grades dispute after one week.

3i <u>**INCOMPLETE:**</u> A student who has completed a major portion of the course with a passing grade but is unable to complete the final exam or other course requirements due to illness or emergency may be granted an incomplete, indicated by a grade of "I". This allows the student to complete the course within the first six weeks of the following semester. The student must contact the course coordinator to sign the incomplete grade contract, and must provide documentation of the extenuating circumstances preventing him or her from taking the final exam. The grade of "I" is never used to avoid an undesirable grade, and does not allow a student to redo work already graded or to retake the course. See the official incomplete grade policy for details.

4. ONLINE COURSE EVALUATION

Students are asked to provide feedback on the quality of instruction in this course by completing the online evaluation. Evaluations are typically open during the last two weeks of the semester, and students will be given specific times when they are open.

This syllabus is subject to change. You will be notified if any changes are made.

Updated on 5/6/2020