

# MAC 2313: CALCULUS 3, FALL 2019

## SYLLABUS/CALENDAR

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### Contact Information:

#### Course Coordinator

**Dr. Shu-Jen Huang**

Lecture: MWF 3 (NPB1001)

Office: 372 Little Hall

Office Hours: M4, W5, F6, or by appointment

Email: [huang@ufl.edu](mailto:huang@ufl.edu)

The course homepage is located in e-Learning CANVAS, <http://elearning.ufl.edu/>.

When email the course coordinator, write **your lecture period, TA's name, and section number** in the subject line.

#### Lecturer

**Dr. Keeran**

Lecture: MWF 2 (NPB1001)

Office: LIT 309

Office Hours: W5, W6, F5, or by appointment

Email: [keeran@ufl.edu](mailto:keeran@ufl.edu)

**Dr. Zapletal**

MWF 9 (NPB1001)

LIT 456

MWF 5:30–7:00PM, or by appointment

[zapletal@ufl.edu](mailto:zapletal@ufl.edu)

#### Discussion Leader (TA)

Name: \_\_\_\_\_

Office: \_\_\_\_\_

Office Hours: \_\_\_\_\_

Email: \_\_\_\_\_

## MAC 2313: Calendar, Fall 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
		Aug 20 First Discussion Class	Aug 21 Lecture 1	22 First Discussion Class	23 Lecture 2
25	26 Lecture 3 Drop/Add Deadline	27 Discussion (L1-2)	28 Lecture 4	29 DP 1 (L1-3) HW 1 & 2 in WA	30 Lecture 5
Sept 1 HW 3	2 <b>Labor Day No Class</b>	3 Quiz 1 (L3-4) HW 4	4 Lecture 6	5 Quiz 1 (L4-5) HW 5	6 Lecture 7
8 HW 6	9 Lecture 8	10 Quiz 2 (L5-7) HW 7	11 Lecture 9	12 Quiz 2 (L6-8) HW 8	13 Lecture 10 Makeup exam/quiz signup deadline
15 HW 9	16 Review <b>EXAM 1</b>	17 DP 1 (L8-9)	18 Lecture 11	19 DP 2 (L9-10)	20 Lecture 12 Clicker registration deadline
22 HW 10	23 Lecture 13	24 DP 2 (L10-11) HW 11	25 Lecture 14	26 Quiz 3 (L11-13) HW 12	27 Lecture 15
29 HW 13	30 Lecture 16	Oct 1 Quiz 3 (L12-14) HW 14	2 Lecture 17	3 Quiz 4 (L14-16) HW 15	4 <b>Homecoming No Class</b>
6 HW 16	7 Lecture 18	8 Quiz 4 (L15-17) HW 17	9 Review	10 DP 3 (L17-18) <b>EXAM 2</b>	11 Lecture 19
13 HW 18	14 Lecture 20	15 DP 3 (L18-19) HW 19	16 Lecture 21	17 DP 4 (L19-20) HW 20	18 Lecture 22
20 HW 21	21 Lecture 23	22 Quiz 5 (L20-22) HW 22	23 Lecture 24	24 Quiz 5 (L21-23) HW 23	25 Lecture 25
27 HW 24	28 Lecture 26	29 Quiz 6 (L23-25) HW 25	30 Lecture 27	31 Quiz 6 (L24-26) HW 26	Nov 1 Lecture 28
3	4 Review	5 DP 4 (L26) <b>EXAM 3</b>	6 Lecture 29	7 DP 5 (L27-28) HW 27	8 Lecture 30
10 HW 28	11 <b>Veterans Day No Class</b>	12 Quiz 7 (L27-29) HW 29	13 Lecture 31	14 Quiz 7 (L28-30) HW 30	15 Lecture 32
17	18 Lecture 32	19 Quiz 8 (L30-31) HW 31	20 Lecture 33	21 Quiz 8 (31-32) HW 32	22 Lecture 33/34
24	25 Lecture 34 Withdraw Deadline	26 <b>No Class</b>	27 <b>Thanksgiving No Class</b>	28 <b>Thanksgiving No Class</b>	29 <b>Thanksgiving No Class</b>
Dec 1	2 Review	3 DP 5 (L32-34) HW 33/34	4 Review	5 <b>Reading Day No Class</b>	6 <b>Reading Day No Class</b>

**Evening testing time: 8:30 – 10:00PM. Location will be announced in CANVAS.**

**Cumulative FINAL EXAM: Saturday, December 7, 5:30 – 7:30PM**

## 1. INTRODUCTION

**1a COURSE CONTENT:** MAC 2313 is the third semester in the calculus sequence and it gives a thorough introduction to multivariable calculus. Intended topics include vectors and the geometry of space, vector functions, partial derivative and applications, multiple integrals, and vector calculus (Chapters 12–16 of the textbook).

**1b PREREQUISITES:** 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 REQUIRED MATERIALS :**

**Textbook:** *Calculus Early Transcendentals*, by James Stewart (8th Edition). There is a loose-leaf print version (\$50.00) of the customized textbook available at the UF Bookstore for students who wish to have a printed resource.

**WebAssign access code:** It includes an access to the Stewart ebook and the online homework assignments. WebAssign (WA) provides a two-week grace period to use the online homework system before you must purchase an access code.

To purchase a WA access code:

- You have the choice to “opt-in” to WA access and the e-book through CANVAS once classes begin for a reduced price of \$62.50 and pay for these materials through your student account. The deadline to opt-in is Friday, Sept 13.
- Students who already have purchased a multi-term access for Stewart text prior to this semester should not have a problem accessing our class on WA. If you have any issues regarding your multi-term access, contact WA Support, 1800-955-8275.

**H-ITT Clicker:** Go to **Course Information** tab on CANVAS to look up detail information about HITT clickers. Starting approximately the second week of the semester, students will be required to have their clickers in class in order to participate in lectures. A weekly clicker grade report will be sent to your UF webmail. **It’s your responsibility to verify the scores and fix any problems immediately.**

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

**1d E-LEARNING CANVAS:** All course information including lecture outlines, lecture videos, office hours, and test locations are posted on CANVAS.

All grades are posted in the CANVAS gradebook (except individual WA and HITT points, which are accessed through those programs directly). You are responsible for verifying that those grades are accurate. **You have one week after a score has been posted to contact your TA to resolve any grade concerns.** We will not consider any grading disputes nor make any grades adjustment at the end of the semester. Be sure to save all original documents in case of grading questions.

**Please note: Check CANVAS regularly for announcements.** Important course information is clearly communicated in the MAC 2313 homepage in CANVAS. Due to the volume of email your instructors receive, we cannot reply to each request for information that is already posted online. So always check those resources first. If you must email the coordinator, please be sure to write down your lecture period, section number, and TA's name in the subject line in all mail correspondence.

**1e LECTURES: Attendance in lecture is required.** You are responsible for learning lecture material missed due to an excused absence. Students can print out the lecture outlines from CANVAS through **Course Resources** tab. You may also purchase a hard copy from Target Copy Center.

**1f DISCUSSION SECTIONS,** which meet once a week (either Tuesday or Thursday) give you a valuable opportunity for open discussion of the lecture material and assigned problems in a smaller class setting. **Attendance in discussion is required.**

Your main resource person is your TA. He is available during office hours or by appointment to answer your questions about the course material. Your TA is responsible for recording all quiz, discussion, and test scores. You must retain all returned papers in case of any discrepancy with your course grade. As mentioned above, **you should check CANVAS regularly and consult with your TA if you have any questions about recorded grades. All grade concerns must be taken care of within one week of receiving the score.** Your grade is subject to being raised or lowered if there is a recording error, computational error, bubbling error, "padding" error, etc.

If you have concerns about your discussion class which cannot be handled by your TA please contact the course coordinator Dr. Huang in Little 372.

**1g FREE HELP:** All instructors' office hours will be posted on CANVAS at the end of the second week. You may go to anyone's office hours that fit your schedule. We encourage you to use this valuable resource to help you stay on track and succeed. In addition to instructors' office hours, the following aids are available on campus.

- 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.
- Office of Academic Support offers free one-on-one and small group tutoring sessions to any UF students. See <https://oas.aa.ufl.edu/current-students/tutoring/> for details.

- U Matter, We Care (<http://www.umatter.ufl.edu/>) 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. You may contact the center at <http://www.counseling.ufl.edu>.

1h **SUCCESS** in MAC 2313 depends largely on your attitude and effort.

- **Engage (participate and be proactive)** in class. Pay attention and answer questions in class. Avoid inappropriate distractions in class such as social networking, texting, or talking.
- **Complete assignments** on time. Get an early start on all assignments. If you get stuck, watch the lecture again and/or visit office hours for timely help. Do not let questions go unanswered.
- **Keep up with the pace** of the course and do not fall behind.

**We want you to be successful!** Remember that you are the only person who can walk the path to your success. Your TA and I are 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.

1i **STUDENTS WITH LEARNING DISABILITIES:** Students requesting class and exam accommodations must first register with the Disability Resource Center(DRC), <https://disability.ufl.edu/> by providing appropriate documentation. Send your accommodation letter to Dr. Huang with the following information: Class number and TA's name. Students with disabilities should follow the DRC procedure as early as possible in the semester (adhering to DRC deadlines) since the accommodations are not retroactive. If you have any concerns regarding your accommodations, please see Dr. Huang during office hours.

1j **ACADEMIC HONESTY:** 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."

We are bound by university policy to report any instance of suspected cheating to the proper authorities. **This includes clicker points submitted in lecture.** 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.

## 2. TESTING

**2a EXAMS:** During the semester there are three midterms and a final exam, all mandatory. The mid-term exams are assembly exams which begin at 8:30PM, consist of multiple choice and free-response questions; the final exam time may change each term, consists solely of multiple choice questions. All exam dates and time are specified in the course calendar and they must be taken at the assigned date and time.

Missing an exam due to negligence, however, will result in a minimum 10-point penalty.

**2b IMPORTANT EXAM POLICIES:** MAC 2313 requires that students take evening exams on the listed dates. Students with conflicts, including regularly scheduled classes, must make advance arrangements to be present at the test.

(1) Students are responsible for material covered in lectures, NYTI, and assignments.  
**Exam coverage and format may vary from semester to semester.**

(2) Bring only the following to the exam:

- Soft lead graphite pencils (number 2 lead or softer) for bubbling your scantron
- Ink Pen (To sign your test)
- Knowledge of your SECTION NUMBER and UF ID number
- Picture ID (UF Gator One card or your state driver's license) with a **legible signature**

**Cell phones and other electronic devices must be turned off and out of sight. If any such device rings, buzzes, or otherwise causes a distraction during the exam, your test will be considered to be compromised and your test score will be 0.**

- (3) Students should be at the exam location at least 10 minutes early. No one will be admitted to the test **10 minutes** after the starting time of the test. No one will be permitted to leave the test until 30 minutes after the stated start time.
- (4) The **Test Form Code**, as well as **your UFID**, name, and section number must be encoded correctly or you will lose 3 points. You must also take the test in your assigned test location or you will lose 3 points on your test.
- (5) An answer key will be posted on CANVAS within one day after each exam. To check your answers, record them on the test or scratch paper that you keep after turning in your scantron and tearoff sheets.
- (6) Graded tearoff sheets will be returned in discussion. You then have **one week** to see your discussion leader if you have questions about your exam grade.

**See Section 3f for the Exam Conflict and Makeup Policies.**

### 3. GRADING

**3a COURSE GRADE:** Your course grade is based on 500 points accumulated as follows:

Quizzes (best 6 of 8, 8 points each)	48
Discussion points (best 4 of 5, 3 points each)	12
WebAssign assignments	60
HITT class participation points	40
Semester exams (80 points each)	240
Final exam	<u>100</u>
	<b>500</b>

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 points 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 ONLINE HOMEWORK:** The online homework administered on WA is planned to complement the written exercises to maintain your knowledge of recent material. The online homework assignments must be completed by the specified due date. Your WA online homework grade is capped at 60 points, but the total number of points available is higher to offset credit lost due to technical difficulties or a missed assignment.

The homework problems are graded by WA and you see your score immediately after submitting your work. You will have multiple attempts for each problem; there are aids and a link to the e-book to help you solve each question.

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

**3c QUIZZES:** Your TA will administer eight quizzes in class on the dates listed in the course calendar. Each will be graded on a scale of 0 to 8 points, and the top six scores will count, up to a total of 48 points. The quiz will be based on previous lectures and homework assignments.

**3d DISCUSSION POINTS:** You will have a chance to work with your peers on NYTI problems and earn Discussion Points. There will be a total of 5 submissions, each with a score between 0 and 3. The top four scores will be counted toward your final Discussion Points grade. The submission dates are listed in the course calendar. More details will be provided in the first discussion class.

Last-minutes show-up to turn in Discussion Points will not be allowed. See the **10-Minute Policy** in Section 3g.

**3e LECTURE PARTICIPATION POINTS:** Up to 40 points may be earned by attendance in lecture and completing problems in class. Points will be collected through the use of the H-ITT clicker starting approximately the second week of the semester. A weekly report will be sent to students. **It's students responsibility to verify the scores and fix any problems immediately.** No one is allowed to turn in work for a student who is not in class (see Section 1j). A violation of this policy will be handled according to standard University policies. There will be extra points available to account for an occasional absence or technical difficulties with your clicker. Total points will be capped at 40.

Following university policy, you may expect a penalty (additional lost points) for attending fewer than 75% of your classes.

**3f MAKE-UP POLICY:** All make-up work must be approved by the course coordinator Dr. Huang in LIT 372, during office hours. You must provide documentation of your absence. **The deadline to sign up a make-up quiz/exam (due to a scheduling conflict) is Friday, Sept 13.**

- **Exam Conflicts – The UF during Term Assembly Exam Policy**  
(<https://catalog.ufl.edu/ugrad/current/regulations/info/exams.aspx>):  
“Exams may be held Monday – Friday from 8:20 – 10:10PM (periods E2–E3) for the fall and spring terms. If other classes are scheduled during an exam time, instructors must provide make-up class work for students who miss class because of an assembly exam. If two exams are scheduled at the same time, assembly exams take priority over time-of-class exams. When two assembly exams conflict, the higher course number takes priority. Instructors giving make-up exams will make the necessary adjustments.”

If MAC 2313 is the lower course number, students must sign up with the course coordinator by the deadline so that appropriate accommodations can be made. Otherwise it may not be possible to reschedule.

You may also take the conflict exam if you are participating in a UF sponsored event during the regular exam time. You must provide documentation of the conflict to the course coordinator by the deadline.

The conflict exam will be offered from 6:40 – 8:20 on the same night as the regular exam. You must sign up with the course coordinator as indicated above. You will not be permitted to leave the exam room before 8:20PM.



- **Make-up Exams:** If you are participating in a UF sponsored event or religious observance, you may make up an exam only if you sign up for a make-up exam with the course coordinator before the deadline. You must present documentation of a UF sponsored event.

If illness or other extenuating circumstances cause you to miss an exam, contact the course coordinator immediately (no later than 24 hours after the exam) by email. Then, as soon as possible after you return to campus, bring the appropriate documentation to the course coordinator. **To be eligible for this make-up you must have received at least half of the lecture participation points that have been given so far.**

All make-up exams will be given during the last week of classes.

- **Make-up Quizzes:** There are no make-ups, unless,
  - 1) you are participating in a UF sponsored event, for which you must bring your documentation to the course coordinator before the sign-up deadline.
  - 2) you miss because of a religious holiday. You must notify the course coordinator by the sign-up deadline if you will be missing discussion class due to a religious holiday.
  - 3) you miss because of a court-ordered obligation – see the course coordinator within one week.
  - 4) you miss three discussion quizzes due to legitimate and documented reasons including illness, family emergency, etc. You must contact the course coordinator and present valid documentation for all three missed quizzes **within one week of your third discussion quiz absence.** You will be allowed to make up ONE quiz (Remember that there are two drops for quizzes). To be eligible for a make-up you must have received credit for at least half of the lecture participation points.

**Your TA cannot give makeups without the authorization of the course coordinator.**

- **Discussion Points:** There will be no make-ups for submitting Discussion Points, unless you are participating in a UF sponsored event or your are observing a religious holiday, for which you must bring your documentation to the course coordinator before the sign-up deadline.

If you miss a Discussion Points submission due to other reasons (illness, family emergencies, etc.), you must treat the missing submission as your drop.

- **Online Homework:** There are no make-ups. You can request an extension on WA homework within 24 hours after the deadline and you will have 24 hours to complete it after extension request. The extension must be submitted in WA directly. However, there will be a 20% grade penalty for those problems completed after the original due date for the assignment.
- **Clicker Points:** There are no make-ups.
- **Other Make-ups:** There are no make-ups on any extra point opportunities.

**3g 10-MINUTE POLICY:** Only the students who are present in the first 10 minutes of the class and stay for the entire period will be allowed to participate in the class activities (including submitting clicker questions, taking quizzes, and turning in work).

**3h ONE WEEK POLICY:** All grades are posted in the Canvas gradebook (except individual WA and H-ITT points which are accessed through those programs directly). 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 TA. There is no grades dispute after one week.

**3i INCOMPLETE:** 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 before finals week to sign an incomplete grade contract (<https://clas.ufl.edu/files/2019/02/CLASIncompleteGradeContract.pdf>), 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 policy at <http://www.math.ufl.edu/departments/incomplete-grades/>.

#### 4. ONLINE COURSE EVALUATION

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. 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 <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

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