

MAC 2312: Calculus II, Summer 2024
Online Sections 7E97(Res.), 7E93(UFO), 7715(DE)
(Last Modified 5/12/2024)

INSTRUCTORS

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One-Week Policy: You are responsible for verifying that your grades are accurate. **You have one week after a score has been posted** (or by the last Wednesday of the course, whichever comes first) **to contact an instructor if you believe there has been a recording error** and have your grade issues resolved *immediately*.

Note: There is no grade dispute, reopening of missed assignments outside of this window nor at the end of the term.

OFFICE HOURS: Online via Zoom – A Visual and Personal engagement. In-person is by request.
Christian’s Zoom link: <https://zoom.us/s/97777813952>
Michael’s Zoom link: <https://zoom.us/s/94489888783>

TEXTBOOK: There is no required textbook for this course. You may use any calculus book as reference. A free online textbook at [Openstax volume 2](#) is a good option. I encourage you to use the online Guided Learning Calculus 2 ([GLC2](#)).

LECTURE NOTES SHELL: You will need the Lecture Notes shell as you watch the lecture videos. There are 3 options to obtain it. (see 2.f)

E-Learning, CANVAS: a UF course management system. Use your Gatorlink username and password to login. All course information including your grade, course homepage, syllabus, lecture videos, lecture notes outlines, office hours, discussion forums, announcements, free help information, etc, can be accessed from this site.

Please note: Important course information is clearly communicated in this syllabus, the MAC2312 homepage and the links in Canvas, and announcements in Announcements and discussion forums. Due to the volume of email received by the instructors, we cannot reply to each request for this well publicized information. If you can not find your answer in the resources above, there are also 4 discussion forums available in Canvas. Please use this to post questions and to supply answers to your fellow classmates.

HOMEWORK, QUIZZES, EXAMS (all online): To access: use the ‘Assignments’ tab in Canvas or, click on each lecture image under ‘Lectures’ on the course home page.

UF FREE TUTORING SERVICE: [Academic Teaching Center](#), [OAS Academic Tutoring](#), your instructors’ office hours.

MAC 2312 -- ANALYTIC GEOMETRY & CALCULUS II

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MAC 2312 - Analytical Geometry and Calc II - Summer 2024 Schedule				
Monday	Tuesday	Wednesday	Thursday	Friday
5/13/2024 Familiarize yourself with Canvas and Syllabus	5/14/2024 Watch Lecture 1 Submit LQ1	5/15/2024 Watch Lecture 2 Submit LQ2	5/16/2024 Watch Lecture 3 Submit LQ3 Submit HW1 (L1-2)	5/17/2024 Watch Lecture 4 Submit LQ4 Submit Syllabus Quiz
5/20/2024 Take Quiz #1 L1-4	5/21/2024 Watch Lecture 5 Submit LQ5 Submit HW2 (L3-4)	5/22/2024 Watch Lecture 6 Submit LQ6	5/23/2024 Watch Lecture 7 Submit LQ7 Submit HW3 (L5-6)	5/24/2024 Watch Lecture 8 Submit LQ8
5/27/2024 Holiday	5/28/2024 Take Quiz #2 L5-8	5/29/2024 Watch Lecture 9 Submit LQ9	5/30/2024 Watch Lecture 10 Submit LQ10 Submit HW4 (L7-9)	5/31/2024 Watch Lecture 11 Submit LQ11
6/3/2024 Watch Lecture 12 Submit LQ12	6/4/2024 Watch Lecture 13 Submit LQ13	6/5/2024 Take Quiz #3 L9-13 Submit HW5 (L13)	6/6/2024 Review for Exam #1: Submit HW6 (L1-13) Upload E1 Review	6/7/2024 Take Exam #1 Lectures 1-13
6/10/2024 Watch Lecture 14 Submit LQ14	6/11/2024 Watch Lecture 15 Submit LQ15	6/12/2024 Take Quiz #4 L14-15 Submit HW7 (L14-15)	6/13/2024 Watch Lecture 16 Submit LQ16	6/14/2024 Watch Lecture 17 Submit LQ17
6/17/2024 Watch Lecture 18 Submit LQ18 Submit HW8 (L16-17)	6/18/2024 Watch Lecture 19 Submit LQ19 Submit HW9 (L18)	6/19/2024 Holiday	6/20/2024 Take Quiz #5 L16-19 Submit HW10 (L19)	6/21/2024 Watch Lecture 20 Submit LQ20
June 24 - June 28 Summer Break				
7/1/2024 Watch Lecture 21 Submit LQ21 Submit HW11 (L20)	7/2/2024 Watch Lecture 22 Submit LQ22	7/3/2024 Watch Lecture 23 Submit LQ23 Submit HW12 (L21-22)	7/4/2024 Holiday	7/5/2024 Take Quiz #6 L20-23
7/8/2024 Review for Exam #2: HW13 (L14-23) Upload E2 Review	7/9/2024 Take Exam #2 Lectures 14-23	7/10/2024 Watch Lecture 24 Submit LQ24	7/11/2024 Watch Lecture 25 Submit LQ25 Submit HW14 (L24)	7/12/2024 Take Quiz #7 L24-25

MAC 2312 - Analytical Geometry and Calc II - Summer 2024 Schedule				
7/15/2024 Watch Lecture 26 Submit LQ26	7/16/2024 Watch Lecture 27 Submit LQ27 Submit HW15 (L25-26)	7/17/2024 Watch Lecture 28 Submit LQ28	7/18/2024 Watch Lecture 29 Submit LQ29 Submit HW16 (L27-28)	7/19/2024 Take Quiz #8 L26-29
7/22/2024 Watch Lecture 30 Submit LQ30 Submit HW17 (L28-29)	7/23/2024 Watch Lecture 31 Submit LQ31 Submit HW18 (L24-29)	7/24/2024 Watch Lecture 32 Submit LQ32 Submit HW19 (L30-31)	7/25/2024 Watch Lecture 33 Submit LQ33	7/26/2024 Take Quiz #9 L30-33
7/29/2024 Watch Lecture 34 Submit LQ34	7/30/2024 Watch Lecture 35 Submit LQ35 Submit HW20 (L32-35)	7/31/2024 Review for Exam #3: Submit HW21 (L30-35) Upload E3 Review	8/1/2024 Take Exam #3 Lectures 24-35	8/2/2024 Watch Lecture 36 Submit LQ36
8/5/2024 Watch Lecture 37 Submit LQ37	8/6/2024 Take Quiz #10 L36-37 Submit HW22 (L36-37)	8/7/2024 Review for Final: Submit H23 (L36-37) Upload E4 Review	8/8/2024 Take Final Exam Cumulative Lectures 1-37	8/9/2024 End of Term

All quizzes & exams: open from 1AM – 11:59PM, proctored by Honorlock. Begin exam no later than 9pm EST (no later than 8pm EST for finals).

- **The schedule above is the ideal workflow of the course. Assignments listed are due the day they appear, however many assignments are open earlier (see below).**
- Exams must be taken on the day shown here. Cumulative Final exam is on Thursday, 8/8.
- Calculus 1 Review lessons: L11 (Limits), L12 (L'Hospital's Rule). Mini review lessons L10, 23, 35.
- L#-Watch lecture n video first; LQ#- answer questions related to the lesson after watching the video. HW#- Homework practice on material learned;
- **UE#R- Upload Exam # Review. Due on the dates specified in the calendar. No extension.**
- **DIS#-Discussions on Exam # material: see Discussions Forum instruction page for details.**
- All homework assignments are open at the beginning of the term and due at 11:59 pm on the dates specified here. **Only LQ, HW, PracticeE3 & PracticeE4** have a 2-day grace period.
- You may always complete & submit work early if you have other plans, but not late.
- **Due date is NOT Do date.** If you wait to submit and you run into any issues, **you will be out of luck.** **Aim to submit assignments prior to the due dates** and make sure submission is completed.
- If you joined the class late, you may contact an instructor for an extension of the first week's work.

2. INTRODUCTION

2a. COURSE DESCRIPTION and CONTENT. MAC2312, Calculus II, is the 2nd semester in the three-semester calculus sequence MAC2311, 2312, 2313 covering basic calculus for STEM majors. The course begins where MAC2311 left off at integration techniques, followed by a study of infinite sequences and series, culminating with Taylor Series and applications, followed by a study of parametric equations and polar coordinates and concludes with applications of definite integrals finding volumes.

This is an ONLINE VERSION of MAC2312 – all content is delivered online. Students view 37 online *lecture videos(L)* and complete 34 *lecture questions (LQ)* in Canvas. Students also complete *online homework (HW)*, and *upload written assignments for Exam Review (UER)* in Canvas. Students are encouraged to engage in discussion forums by posting questions and answers on the 4 *Discussions Boards* in Canvas. Three *unit exams* and a *cumulative final exam* are posted in Canvas and administered through Honorlock. **You must take the exams on the dates specified in the course calendar.**

2b. PREREQUISITES. MAC2311 with a minimum grade of C or AP/IB/AICE credit for MAC2311 or higher. Appropriate score on the ALEKS placement assessment meets the minimum requirement for the course. MAC2312 assumes that you have essential PreCalculus skills (both Algebra and Trigonometry) as well as the calculus 1 skills necessary to succeed in this course.

Students may find a short list of review materials in the last section of this syllabus as well as the review lessons L11 (limits) & L12 (L'Hospital's Rule). We encourage students to review the prerequisite material to gain a strong knowledge to succeed in calculus II. MAC2312 begins with an integration chapter, you should already be competent in integrating simple functions and the use of u-substitution. We strongly recommend students who are having difficulty with these core calculus skills to review MAC2311 (or take the UF course if you have not done so). You may switch courses on one.ufl.edu during the drop-add period.

2c. General Education Objectives and Learning Outcomes. This course is a mathematics (M) course in the UF General Education Program. This course is a mathematics (M) course in the UF General Education Program. Completing this course with a minimum grade of C will satisfy the student's State Core Mathematics requirement of the UF General Education Program. Courses in mathematics provide instruction in computational strategies in fundamental mathematics including at least one of the following: solving equations and inequalities, logic, statistics, algebra, trigonometry, inductive and deductive reasoning. These courses include reasoning in abstract mathematical systems, formulating mathematical models and arguments, using mathematical models to solve problems and applying mathematical concepts effectively to real-world situations.

After successful completion of this course students will have demonstrated competency in the following Student Learning Outcomes (SLOs):

- **Content:** Students demonstrate competence in the terminology, concepts, theories, and methodologies used within the discipline. After completing this course students will gain a knowledge of integration, series, and parametric equations and polar coordinates.
- **Communication:** Students communicate knowledge, ideas, and reasoning clearly and effectively in written and oral forms appropriate to the discipline. Throughout this course students will communicate mathematical ideas through writing on their discussion posts and written assignments as well as verbally during office hours.
- **Critical Thinking:** Students analyze information carefully and logically from multiple perspectives, using discipline-specific methods, and developing reasoned solutions to problems. Students will apply their knowledge to solve problems concerning topics that include, but are not limited to, techniques of integration, calculation of volumes of revolution, determining the convergence or

divergence of infinite series, using power series representations to evaluate functions and integrals, using the calculus of parametric equations and graphing, and calculating the areas of polar curves.

2d. REQUIRED MATERIALS. There are no required textbooks for this course. See page 1. We strongly encourage you to have a copy of the lecture note outlines (shell) to take notes while watching the lecture videos.

Lecture Notes Shell: See 2h.

Computer access and requirements: All assignments should be taken on a computer, not cell phone or tablet, since there may be compatibility issues with CANVAS. Be sure you are using only **Chrome** that works with Honorlock.

- **DueDate is NOT DoDate.** The Internet sometimes is not reliable, a reason you should **not wait till the last hours** to complete your online assignment. If your computer or internet goes down while you try to submit an assignment, you will need additional time. If you **miss a due date**, no credit will be given for the work not submitted. For most online assignments (excluding written assignments, extra credit assignments and exams), there is a 48-hours grace period for dealing with any last minute emergencies including any computer/internet issues.
- Always allow plenty of time to submit your work. It's the student's **responsibility** to have a reliable computer, a good internet speed and connection and to verify the work is submitted successfully *before the deadline*.

Calculators NOT required and NOT allowed in the proctored Quizzes and Exams: Students should be able to do arithmetic without a calculator. A graphing calculator or computer program (such as [Desmos](#)) can be useful as a learning tool when used appropriately, but they are not essential. Calculus is a collection of concepts, ideas and processes that are not mastered through calculator skills. **No calculators** are allowed during quizzes or exams (except the basic calculator which is provided in Honorlock).

2e. ASSIGNMENT CALENDAR. (p.3) All course material except quizzes and exams have been available since the start of the semester. Check the course calendar for due dates and plan your schedule accordingly. You may complete your homework early, but you **must take quizzes and exams on the assigned date**. **LQ** and **HW** assignments are given a 48-hour grace period to turn in after they are due. Expect no leeway for extending this grace period. The due dates for LQ and HW are posted on Canvas. You may do more lessons and complete them earlier than the schedule recommends.

2f. CANVAS. TURN ON ALERTS from Canvas so that you get timely course information in your UF email. Turn on “Notify Immediately” for Announcement, Discussions and Grading, etc. Click [here](#) for more information.

Announcements are updated frequently to contain announcements made throughout the semester. All official class communications will be sent via Canvas Announcements, and students are responsible for acquiring, checking their Canvas Announcements and UF email regularly.

2g. Emails. You should email either instructor only for *personal/private* course related issues that are not addressed in syllabus or announcements, please cc the coordinator in the email. For non-personal/private issues, please post them in any of the 4 discussion forums.

All communication between students and instructors and between students should be respectful and professional. All official class communications will be sent only to the ufl.edu addresses or Canvas inbox. Students are responsible for any class information sent to their ufl.edu account and their Canvas inbox. Please be sure to sign your name to your emails.

2h. LECTURE VIDEOS. The lecture videos provide the main presentation of course material. They introduce and provide examples of new course material. Access each video directly through each Lecture on Canvas Home Page under ‘Lectures’. Re-watch them if necessary.

- To stay current with the course, you must watch the lecture video weekly following the schedule posted in the course calendar. Start early and stay ahead so you don’t miss any due dates.
- You should watch the lectures and answer the corresponding Lecture Questions (LQ) in Canvas and practice homework problems (HW). If you like to do it every other day, there is a 48-hours grace period. I suggest having work submitted by the due date and use the grace period for the absolute emergency such as internet, computer, traveling, weather related...etc. emergency issues
- It’s possible to **get ahead** in this class if you complete each assignment early, but you must take exams on the specified dates. **If you have other commitments, adjust your schedule to complete the assignments earlier rather than later.**

Lecture Notes Shell/outline: Taking lecture notes while watching the lecture videos is essential to your learning. You may find the lecture note shell in the table of ‘lecture notes’ under the Course Resources. It is important that you should have a copy, this will make it easier to take notes while watching the videos and to study for quizzes/exams. There are 3 options to access these outlines: Print out each lecture, purchase a printed packet from [Target Copy](#) (if you are in Gainesville, otherwise there is extra cost for shipping) or download a digital copy if you use a tablet.

2i. SUCCESS & FREE HELP: Other than having a strong precalculus and calculus I background, success in MAC 2312 depends largely on your attitude and effort. **Keeping up with the videos is critical.** You may find it beneficial to **work daily** on the material as opposed to saving it all for one day. It is not effective to watch video and copy notes without following the thought processes involved in the lecture. For that reason, there are Lecture Questions for each lecture which you will need to submit the answer in Canvas as part of your course grade. (see 2f and 3d)

EXPECTATION: This is a very challenging course. Treating it as anything less than that is inherently unwise, both for your learning and for your grade. Be aware that much of the learning of mathematics at the university takes place *outside of the classroom* (in the case of an online class, the time spent working on the material *after* watching each lecture videos). “**At a minimum**” we expect students to spend 3 hours *effectively* studying on their own (in addition to watching lecture videos) for every credit hour of the course. MAC 2312 is a 4 credit course, which means **at least 12 hours per week** preparing and practicing problems for this course **in addition to watching lecture videos**. If you are not doing as well as you would like in MAC 2312, you may need to put forth more effort. Keep in mind that the goal is to be able to apply the techniques of calculus to problems, not just reproduce the problems you see in class.

Do you know that it takes roughly 45 lecture hours in colleges vs. roughly 150 lecture hours in high school to complete a calculus course? The fact of the matter is that a university calculus course goes 3+ times faster

and that you probably won't do well if you don't study regularly, or you wait till the week of the exam to start preparing for the exam. Much of the learning is on you. **Therefore, it is critical that you keep pace with the course material and assignments each week**, Practice, practice and practice. Do not fall behind.

Use the resources available as you study! We encourage you to ask questions, seek help from online office hours, Discussions boards and the [Office of Academic Teaching Center](#), [Math Help Center in LIT 215](#) and other free UF online tutoring services. Do not let misunderstandings go unanswered.

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

Be a responsible learner! In studying calculus, you must be careful not to let a tutor, a friend or calculator 'think' for you. Be sure to compare the material from tutors, if you use one, with the class material and ask questions to make sure that you can work out problems completely on your own before an exam

It's our hope that through *focused study and practice* you will gain a true appreciation for the important concepts of calculus and their application. We want you to succeed in this class! Be positive and keep up with the course, take initiative to *get help in time*, before you get too far behind. Students with a positive attitude who are intellectually engaged in learning the material will get the most from the course.

2j. STUDENTS WITH DISABILITIES. UF welcomes students with disabilities into the UF programs. Students requesting accommodations must first register with the Dean of Students Office [Disability Resource Center \(DRC\)](#) , (352-392-8565). This must be done as early as possible in the semester, so there is adequate time to make proper accommodation. Please note that DRC does not provide testing location for proctored online assessments.

2k. ACADEMIC HONESTY.

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.”

Academic Honesty Guidelines: “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. Exhibiting honesty in academic pursuits and reporting violations of the Academic Honesty Guidelines will encourage others to act 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)

The mathematics department expects you to follow the Student Honor Code. We are bound by university policy to report an instance of suspected cheating to the proper authorities. You may find the [Student Honor Code](#) and read more about student rights and responsibilities concerning academic honesty.

In addition, we remind you that lecture videos, notes and GLC2 are the property of the University/faculty member and may not be distributed/shared for any commercial purpose. Students found to be in violation may be subject to discipline under the Student Conduct Code.

2. DIVERSITY & INCLUSION. The Mathematics Department is committed to diversity and inclusion of all students. We acknowledge, respect, and value 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.

3. GRADING

3a. COURSE GRADE. Your course grade is determined by unweighted points as follows:

Syllabus and Practice Quiz	13 points
Lecture Quizzes (37 total, 3 dropped , 2 points each)	68 points
Online Homework Group 1 (18 total, 1 dropped , 2 points each)	34 points
Online Homework Group 2 (5 total, 6 points each)	30 points
Upload Exam Review (4 total, 12.5 points each)	50 points
Quiz (10 total, 1 dropped , 10 points each)	90 points
<u>3 Unit Exams + Final Exam (100 each, 115 for final)</u>	<u>415 points</u>
Total:	700 points

In addition, there are extra credit opportunities (see 3g).

Your course grade will be determined by **total points earned** according to the following scale.

There will be no additional curve in this course, extra assignments for individual students to improve a grade are NOT possible.

630 – 700	A	609 – 629	A –	588 – 608	B+	560 – 587	B
539 – 559	B–	518 – 538	C+	490 – 517	C *	469 – 489	C–
448 – 468	D+	420 – 447	D	350 – 419	D–	0 – 349	E

A minimum grade of C (not C –) in MAC 2312 satisfies four credits of the University General Education Mathematics requirement.

For those taking the ‘S – U’ option: $S > 70\%$, $U < 70\%$.

Approval of the ‘S – U’ option must be approved by the registrar’s office. The deadline for filing an application with the Registrar and further information on the ‘S – U’ option are given in the [Undergraduate Catalog](#).

NOTE: We will not review disputed points at the end of the semester. All grade concerns must be settled *within one week of the posting of the grades of the assignment*. No reopening of missed assignments outside this window nor at the end of the semester.

3b. INCOMPLETE GRADES POLICY Students who are currently passing a course and have completed the vast majority of assignments and exams in the class but are unable to complete the course because of illness or emergency may be granted an incomplete grade of I. This will allow the student to complete the

course within the first two weeks of the following semester. See the policy on the [math department criteria](#). If you meet the criteria, you must see the instructor before the finals week to be considered for an I. **A grade of I only allows you to make up your incomplete work, not redo previously completed work, nor closed work.**

3c. GETTING STARTED:

Log in to Canvas and familiarize yourself with the syllabus and the information in the clickable links in Canvas. Make sure you understand what is expected of you in this course. After you have done that, you are ready to begin: Watch Lecture 1 video and Complete its lecture questions LQ1.

3d. VIDEOS AND LECTURE QUIZZES – Go to Canvas Homepage to access each lecture. Each lecture has an introductory page including the concepts to be covered, things you need to do for this lecture. Viewing the video and completing the Lecture Questions (LQ) are important aspects of the learning process. We encourage you to use the notes as well as the videos and the Discussions boards to help answer these questions. After completing LQ, you are ready to practice homework problems.

NOTE: At the time of the taping, we used a specific textbook. A textbook is no longer required. Please go by the ‘topic name’ and not by any chapter numbers mentioned in the videos.

NOTE: There might be minor typos in some of the videos. Post them in the Discussion board if you find them.

3e. HOMEWORK – there are online homework as well as written homework:

1. **Online Homework** (Practice Quiz, LQ# & HW#)– You may access them within each lecture on Canvas homepage or, by clicking on the Assignments tab on the left side of Canvas.
 - a. A 48-hours grace period for LQ & HW submission.
 - b. Three lowest LQ scores and one lowest HW (in group 1) will be **dropped** to offset possible credit loss due to technical issues or simply just a bad day. (note: Practice Quiz will not be dropped)

Note: Canvas does not allow you to open any work you have not opened, you won’t be able to study the missed homework when preparing for exams later. So be sure to do each assignment.

Note: You may experience trouble seeing the correct math image or the minus sign in online assignments, quizzes or exams. This issue is typically due to your computer and/or network. **Be sure to read the highlighted bullets under ‘Honorlock’ to see what to do.**

2. **Written Homework** (UE#R, upload Exam Review)– Click on UE1R for more details.
 - Scan your complete work and upload them in a **single pdf file** before the due date. (Free scanning apps are available on phone or computers)

Do not try to complete all assignments in one sitting; Remember, **Due Date is NOT Do Date!** Start and submit them early so you won’t miss the deadline and still have time to digest and absorb the material.

NOTE: The purpose of homework is to practice problems in order to understand and master the material

learned. Complete them before each exam. **Completing them after exams is not helpful to your learning nor your grades.**

Contact the instructors immediately if you are experiencing problems. You may also post questions in the Discussions boards to see if your classmates have similar issues.

NOTE: If you have questions that are not addressed in the **syllabus** nor **announcements**, then post them in any of the 4 **discussion boards** or, **email the instructors for private/personal questions.**

3f. QUIZZES & EXAMS. See 4. TESTING. Do not post quiz nor exam questions in discussion boards.

3g. EXTRA CREDIT. You may earn up to 728 out of 700 points in this class by posting Q&A in DIS#, take PracticeE3 and PracticeE4. Correct letter grade will be manually calculated and updated in Canvas after all grades are in at the end of the semester.

3h. ADDITIONAL PRACTICE PROBLEMS.

- NYTI: There are problems listed at the end of each lecture called ‘Now You Try It’ (NYTI). These are written by the course coordinator and are designed to emphasize important concepts and provide extra practice of the lecture material. Some of them are included in the Lecture Questions as well. NYTI problems are not graded, but some of them are included in homework, so it is strongly encouraged that you work them out. **Solutions to NYTI are posted** in the ‘Lecture Notes’ table under Course Resources in Canvas.
- I also wrote 277 extra practice problems and the answers, posted in the Course Resources.

4. TESTING.

There are eight quizzes, three 90-minute unit exams and a 2-hour cumulative final exam. They are given in Canvas and administered through Honorlock (HL). All **quizzes and exams** are open on the date specified in the calendar from 1 AM EST and close at 11:59PM EST or when your time is up, whichever comes first. You should start your exam no later than 9pm EST (or 8pm EST for the final exam) to ensure maximum time to work on your exam.

Cell Phones: Cell phones must be turned off (not on vibrate) and out of reach before taking a proctored test or quiz. Use (defined as having one physically in your hand or within reach) of a cell phone during proctored events will be considered contact with another person and will be viewed as a form of academic dishonesty because I cannot be assured in such a circumstance that you have not taken a picture of the test/quiz or sent a text message to someone. As a result, **using a cell phone during a test or quiz for any reason will result in an automatic grade of zero and possible disciplinary action.** Wait until after you have submitted the test/quiz to use it.

Double Time: *We offer double time on all quizzes & exams, so you won't be stressed out in taking assessments online with possible technical issues.*

Honorlock: *Also See Course Information in Canvas. Honorlock requires Chrome to work. Be sure to*

- **Obtain Chrome** and **download** the Honorlock Google Chrome Extension
- **Disable Acceleration in Chrome.** (Chrome acceleration may cause lag or crash, so it's a good idea to disable it before taking math assessment).
- **Do NOT have too many plugins enabled for Google Chrome.** Adblockers are a common cause of browser issues in Canvas.

- **Clear Cache and Cookies and restart your computer** before each exam/quiz. Oftentimes, issues with Canvas are a result of cache/cookies needing to be cleared out and computer/browser needing to be restarted after cleaning.

We urge you to Livechat with Honorlock Support to do a **speed check at least a few days prior to your quiz/exam** to confirm your connection speed and required equipment (ex. webcam, speaker, mic) are all good. It is your responsibility to

- **have a reliable internet connection with sufficient speed.** Verify with Honorlock that you have an acceptable internet speed, test-taking location and environment.
- **do a 'speed check' with Honorlock before your quiz/exam to confirm your connection, speed and required equipment (ex. Webcam, speaker mic, etc.) and location are all good to go.**
- Take the 'Practice Quiz' for a test run and get familiar with Honorlock.
- **disable Acceleration in Chrome; don't have too many plugins enabled for Google Chrome; clear cache and cookies and do a restart** before taking any math assignments online. **Doing the above tasks helps prevent 'unreadable math codes' in math assignments/quizzes/tests.**

If your answers are not received by Canvas due to some faulty connection/equipment/math image, they are lost for good, we are not able to take anything else to replace your lost answers.

- 'Right click' on the unreadable math code if you encounter/suspect unreadable math issues, then click on 'open image in a new tab' to see the correct image on the *upper left corner* of the new page (this option is not possible during a proctored quiz and exams).

Make sure you are available to take the exams at the designated date. **Do not request a retake or, makeup any missed questions** for any quiz or exam, especially due to your poor planning (such as flight delay, work schedule). However, if you have committed to other plans before the semester starts, you may request for makeup by the end of the 2nd week.

You will not be able to request a makeup if problems arise due to your own negligence.

- Some Honorlock agents will tell you the problem is with the exam itself when you could not see math images correctly, this is mostly not true. It mostly is because you did not follow the instructions above. Let the agent know that sometimes a 'refresh' resolves the problem. No grade adjustment, drop questions or retake will be granted.

If you are uncertain as to the reliability of your internet service provider or internet connection, find a place to take your exam where the connection is reliable. A makeup is not possible for a failed connection. Do not disconnect the webcam before you have submitted your quiz/exam. **Failure to do so may result in a 0.**

4a. SEMESTER UNIT EXAMS. Each Unit Exam will be given in Canvas consisting of multiple choice questions and possibly a few fill-in-the-blank questions, similar format as in homework. Your exam score is displayed immediately after your submission. The exam is locked after the test.

4b. FINAL EXAM. A mandatory cumulative final exam in Canvas will be given on the date shown in the course calendar. The final exam also consists of multiple-choice questions and possibly a few fill-in-the-blank questions.

4c. MAKEUP POLICIES. Exams must be taken on the exam date; all pre-approved makeup must be arranged prior to the exam. This is an assembly exam, and we allow students to take makeup if they meet the requirements below, but we **do not allow exam retake nor makeup after they have started it.**

1. **Exam Conflicts**

- a. If you have a time conflict with an exam for this class and *another ASSEMBLY exam*, and the course number for the other class is higher than 2312, you must contact the course coordinator during the **first two weeks of this term** and request to take a makeup exam. You must present documentation of the higher number course. If your other course has a lower course number than 2312 or your other exam isn't an assembly exam, please contact your instructor in that course to make arrangements. See [UF Exam Policies](#).
- b. If you are participating in a UF sponsored event or religious observance, you may make up an exam only if you make arrangements with the course coordinator **during the first two weeks of the term**. You must present documentation of the UF sponsored event.

2. **Makeup – Exams:**

- a. If *serious* illness or other last minute *extenuating* emergency circumstances cause you to miss an exam, email the instructors within 24 hours and send in the appropriate documentation.
- b. There are no makeup quizzes/exams for travel issues. However, if you have committed to a trip prior to the semester start, you may request a makeup by the end of the 2nd week of classes.
- c. You may be denied a makeup if you have not completed at least 75% of all the course work thus far.**
- d. Contact the instructors *immediately* if you have a court order date conflict with an exam.
- e. Missing a quiz or an exam due to negligence or poor planning, however, will result in a minimum of 10% penalty.

3. **Other make ups: There are no makeups** on any assignments or extra credit work.

All makeups must be completed by the **last Monday** of the semester **before the final exam**.

Note: Information in this syllabus is subject to change. Any changes will be clearly announced in Announcements, Discussions forum or through ufl.edu email.

5. FORMULAS YOU ARE EXPECTED TO KNOW.

This course assumes that you have a sound precalculus and calculus 1 background. The following is a summary of some important concepts used in solving calculus problems. The textbook provides a more complete review of these essential topics.

COMPLETING THE SQUARE $x^2 + ax + b = (x + \frac{a}{2})^2 + (b - (\frac{a}{2})^2)$

LAW OF EXPONENTS $a^{n+m} = a^n a^m$ $a^{n-m} = \frac{a^n}{a^m}$ $(a^m)^n = a^{mn}$

PROPERTIES OF logarithms $\log_b |xy| = \log_b |x| + \log_b |y|$

$$\log_b \left| \frac{x}{y} \right| = \log_b |x| - \log_b |y|$$

$$\log_b |a^m| = m \log_b |a|, \quad \log_b |x| = \frac{\ln|x|}{\ln b}$$

PARABOLA $y = f(x) = ax^2 + bx + c$

CIRCLES $(x - a)^2 + (y - b)^2 = r^2$

Vertex $x = -\frac{b}{2a}, y = f(-\frac{b}{2a})$

Center $(a, b), \text{ radius} = r$

Derivatives

$$\frac{d}{dx} (\sin \sin x) = \quad \frac{d}{dx} (\csc \csc x) = \quad \frac{d}{dx} (\cos \cos x) = \quad \frac{d}{dx} (\sec \sec x) =$$

$$\frac{d}{dx} (\tan \tan x) = \quad \frac{d}{dx} (\cot \cot x) = \quad \frac{d}{dx} (\arctan \arctan x) =$$

$$\frac{d}{dx} (a^x) = \quad \frac{d}{dx} (e^x) = \quad \frac{d}{dx} (\log_a x) = \quad \frac{d}{dx} (\ln \ln x) =$$

Integrals

$$\int \frac{1}{x} dx = \quad \int e^x dx = \quad \int a^x dx =$$

$$\int \sin \sin x dx = \quad \int \cos \cos x dx = \quad \int \tan \tan x dx = \quad \int \cot \cot x dx =$$

$$\int \sec^2 x dx = \quad \int \csc^2 x dx = \quad \int \sec \sec x \tan \tan x dx = \quad \int \cot \cot x \csc x dx =$$

$$\int \tan^2 x dx = \quad \int \cot^2 x dx = \quad \int \frac{1}{a^2+x^2} dx =$$

Trig Identities

$$\sin^2 x + \cos^2 x = 1 \quad \tan^2 x + 1 = \sec^2 x \quad 1 + \cot^2 x = \csc^2 x$$

$$\sin^2 x = \quad \sin \sin 2x =$$

$$\cos^2 x = \quad \cos \cos 2x =$$

Know values of $\sin \sin x, \cos \cos x, \tan \tan x$ at $x = 0, \frac{\pi}{6}, \frac{\pi}{4}, \frac{\pi}{3}, \frac{\pi}{2}$; $\arctan(a)$ at $a=0, 1, \sqrt{3}, 1/\sqrt{3}$.

(know the values of the other trig. functions at these angles and know the values of all trig functions at complementary and supplementary angles of the angles above)

Chain Rules

$$(f(g(x)))' = f'(g(x))g'(x)$$