

MAS 3114 ONLINE, SPRING 2023

Computational Linear Algebra

For asynchronous sections 14869(UF Online), 14885(Residential Online) & 25090(DE)

Contact Information:

Course Coordinator/Instructor

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The course homepage is located in [e-Learning Canvas](#). The information for office hours can be found on Canvas.

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

MAS 3114 Online: Calendar, Spring 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	Jan 9 Lecture 1	10	11 Lecture 2	12	13 Lecture 3 Drop/Add Deadline
15	16 MLK Day No Class	17	18 Lecture 4	19 HW 1-3	20 MATLAB synchronous zoom session @ 9:35am
22	23 Lecture 5	24	25 Lecture 6	26 HW 4-5	27 MATLAB Q&A synchronous zoom session @ 9:35am
29 MATLAB 1	30 Lecture 7	31	Feb 1 Lecture 8	2 HW 6-7	3 Lecture 9
5	6 Review	7 HW 8-9	8 Review	9	10 EXAM 1
12	13 Lecture 10	14	15 Lecture 11	16 HW 10	17 MATLAB Q&A synchronous zoom session @ 9:35am
19 MATLAB 2	20 Lecture 12	21	22 Lecture 13	23 HW 11-12	24 Lecture 14
26	27 Lecture 15	28	Mar 1 Lecture 16	2 HW 13-15	3 Lecture 17
5	6 Lecture 18	7	8 Lecture 19	9 HW 16-18	10 MATLAB Q&A synchronous zoom session @ 9:35am
12 MATLAB 3	13-17 Spring Break				
19	20 Review	21	22 Review	23	24 EXAM 2
26	27 Lecture 20	28	29 Lecture 21	30 HW 19-20	31 Lecture 22
Apr 2	3 Lecture 23	4	5 Lecture 24	6 HW 21-23	7 MATLAB Q&A synchronous zoom session @ 9:35am
9 MATLAB 4	10 Lecture 25	11	12 Lecture 26	13 HW 24-25	14 Lecture 27 Withdraw Deadline
16	17 Review	18 HW 26-27	19 Review	20	21 EXAM 3
23	24 Review	25	26 MAKEUP EXAM (optional)	27 Reading Day No Class	28 Reading Day No Class

- HW assignments (including LQ and MyLab) are due at 11:59PM EDT/EST on the date indicated in the calendar.
- Each exam is open from 12PM(noon)—11:59PM EDT/EST in Canvas on the exam date, and it's proctored by Honorlock.

1. INTRODUCTION

1a COURSE CONTENT: MAS 3114 is a 3-credit course on linear algebra whose topics are of computational nature. The topics include linear equations, matrices, determinants, vector spaces, linear transformations, inner products, and eigenvalues. This course emphasizes computational aspects of Linear Algebra. MAS 3114 is designed to serve science, computer science, quantitative science, engineering majors, and mathematics minors. Mathematics majors are required to take MAS 4105, Linear Algebra 1.

1b PREREQUISITES: MAC 2312 with a minimum grade of C and experience with a scientific programming language.

1c REQUIRED MATERIALS :

Textbook: **Linear Algebra and Its Applications**, 6th edition, by David C. Lay

An access code to **MyLab and Mastering** is required in the course. It can be obtained through [UF All Access program](#) by authorizing charges to your student financial account and is provided at a reduced price. This option will become available starting one week prior to the beginning of the semester and ends three weeks after the first day of class. If you do not wish to authorize charges to your student financial account, you may purchase an access code at the [UF bookstore](#) instead, which will be more expensive than opting-in.

Please see the **Course Information** page in Canvas for complete information on obtaining an access code through UF All Access and registration with MyLab and Mastering.

1d E-LEARNING CANVAS: All course-related information is posted on Canvas.

TURN ON NOTIFICATIONS in your Canvas account so that you can receive timely alerts in your UF email. See the [instructions](#) for Canvas Notification settings.

Check Canvas course homepage regularly for announcements. Due to the volume of email instructors receive, we cannot reply to each request for the information that is already posted online.

1e LECTURES: The lecture videos provide the main presentation of course material. To keep up with the course, we recommend watching the videos daily by following the schedule posted on the course calendar. The course material is divided into five units:

- Unit 1: Lectures 01 – 09 Linear Systems & Matrices
- Unit 2: Lectures 10 – 18 Determinants & Vector Spaces
- Unit 3: Lectures 19 – 27 Eigenvectors & Orthogonal Sets

Lecture notes outlines: You can download and print them out from each module page in Canvas. Or you have an option to purchase the printed outlines at [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.

2. ASSESSMENTS

2a LECTURE PARTICIPATION QUIZZES: There are 27 sets of lecture quizzes (LQ) given on the material of the lectures, and there are three attempts for each LQ. Students are expected to work individually on these assignments. The two lowest LQ grades will be dropped at the end of the semester.

2b MYLAB HOMEWORK: Each online Homework assignment (HW) is a set of problems assigned on MyLab and numbered according to the Module covered. A MyLab assignment will give you necessary practice for mastering the material delivered in lecture. Students have five attempts (updated on 1/23/2023) for most questions in MyLab assignments before the due date. There will be a total of 27 homework assignments assigned and the two lowest scores will be dropped at the end of the semester.

NOTE: The due date for each HW assignment (including LQ and MyLab) shown in the course calendar.

2c MATLAB ASSIGNMENTS: Four MATLAB assignments will be assigned during the semester, and each assignment must be completed using MATLAB software and submitted on Canvas by its due date. For more information on the assignments, visit the **MATLAB Assignments** tab on Canvas and read the instructions for each assignment.

There are five synchronous MATLAB Zoom sessions scheduled this semester. The Zoom sessions will be recorded and posted in Canvas for the students who are not able to attend.

2d EXAMS: There will be three unit exams offered during the semester. The **cumulative make-up exam** (optional) can be taken on the last day of classes. If a student is satisfied with his grade, then he is not required to take the optional make-up exam. If a student who takes all three unit exams and optional make-up exam, then the lowest exam grade will be dropped at the end of the semester.

NOTE: Calculators may be useful for some homework problems but are not required in the course. Calculator are not allowed on the exams.

Important Exam Policies: MAS 3114 requires that students take online exams through **Honorlock** on the listed dates. Each exam opens for a 12-hour period (from 12:00PM noon to 11:59PM) on the exam date, and we recommend starting your test no later than 10:30PM since all exams are closed at midnight. Students with conflicts, including scheduled working hours or traveling, must make advance arrangements to take the exam at the scheduled time.

UF will rely on a Test-In-Place plan this semester for online proctored exams. Each student is expected to use their place of residence whether on or off campus for scheduled online exams. To successfully complete an online proctored exam, students need a quiet space with adequate lighting, no distractions and a strong internet connection.

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.
 - 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.

2e MAKE-UP POLICIES: We do not consider traveling or lack of internet access as a valid excuse for a make-up. You must provide documentation for makeup and all makeup work must be approved by the course instructor and

- **Make-up Exams:** If you are missing an exam due to a **legitimate reason** (being sick, being away on the UF business, family emergency, or religious holidays), you may provide documentations and request to take an early makeup. **To be eligible for an early makeup**, you must send a request to the instructor prior to the exam, and an early makeup will be scheduled in the following week if your request is approved. A late request will not be accepted, and you may take the optional makeup exam at the end of the semester.
- **Lecture Quizzes, MyLab Assignments and MATLAB Assignments:** There are no make-ups, unless, you have documented illness or other extenuating circumstances. You must contact the instructor prior to the deadline and request for an extension.

Late submissions: Due Date is not the **Do Date!** DO NOT wait to start your assignments the day that they are due. If there are any last minute difficulties with your computer or access, you will be out of luck. However, lecture quizzes,

MyLab homework assignments and MATLAB assignments can be submitted late with a 25% penalty for each day beyond the due date.

- **Extra Credit Assignments:** no make-ups on any extra credit assignments

If you have issues with technical difficulties for Canvas, contact the [UF Help Desk](#) or call (352) 392-HELP(4357). 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 the course instructor before the due date to discuss a make-up.

3. GRADING

3a COURSE GRADE: The course grade is assigned based on the students performance on the following weighted categories:

27 Lecture Quizzes (drop the two lowest grades)	7.00 %
27 MyLab assignments (drop the two lowest grades)	28.00 %
4 MATLAB assignments	15.00 %
3 Unit Exams	50.00 %
	100.00 %

Your final grade will be rounded to the nearest hundredth and a letter grade will be given using the following grading scale:

A	90.00 - 100 %	C	68.00 - 72.49 %
A-	86.50 - 89.99 %	C-*	64.50 - 67.99 %
B+	83.00 - 86.49 %	D+	61.00 - 64.49 %
B	79.50 - 82.99 %	D	57.50 - 60.99 %
B-	76.00 - 79.49 %	D-	54.00 - 57.49 %
C+	72.50 - 75.99 %	E	0 - 53.99 %

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

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

3b ONE WEEK POLICY: All grades are posted in the Canvas gradebook You are responsible for verifying that those grades are accurate. **You have one week after a score has been posted to contact your instructor if there is a grading or recording issue.** Any grade concerns must communicate through Canvas Mails due to security/privacy issues. We will not consider any grading disputes nor make any grades adjustment at the end of the semester.

3c INCOMPLETE: A student who has completed a major portion of the course with a passing grade but is unable to complete the last 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. MISCELLANEOUS

4a ACADEMIC HONESTY: 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 UF Honor Code](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. We are bound by university policy to report any instance of suspected cheating to the proper authorities. In addition, we remind you that lectures given in this class are the property of the University/faculty member and may not be used for any commercial purpose. Students found to be in violation may be subject to discipline under the Student Conduct Code.

4b STUDENTS WITH LEARNING DISABILITIES: Students requesting class and exam accommodations must register with the [Disability Resource Center\(DRC\)](#) by providing appropriate documentation. A letter of accommodation must be sent to Dr. Huang at least three business days before a scheduled exam in order to receive exam accommodations. Students with disabilities should follow the DRC procedure as early as possible in the semester since the accommodations are not retroactive.

4c COVID POLICY: In response to COVID-19, the following recommendations are in place to maintain your learning environment, to enhance the safety of our in-classroom interactions, and to further the health and safety of ourselves, our neighbors, and our loved ones.

- If you are not vaccinated, get vaccinated. Vaccines are readily available and have been demonstrated to be safe and effective against the COVID-19 virus. Visit [one.uf](#) for screening/testing and vaccination opportunities.

- If you are sick, stay home. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 to be evaluated.
- Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work.

4d UF CAMUPUS RESOURCES:

- E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.
- [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 have any other concerns.

4e 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.

4f 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. 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.