

MATH 365: LINEAR ALGEBRA II

INSTRUCTOR: DANNY LARA

E-mail: Danny.Lara@cwu.edu
Office Hours: M-Th 1:00pm-1:50pm
F 11:00am-12:00pm
Office: Samuelson 218A

Class Room: Samuelson 101

COURSE DESCRIPTION

In this course, students can expect to

- Identify vector spaces and subspaces.
- Identify basis for vector spaces and give the coordinates that depend on a basis.
- identify linear transformations and representation transformations by matrices.
- identify characteristic values and polynomials.
- Identify Inner Product Spaces

TEXTBOOK AND MATERIALS

The textbook used for the course is Linear Algebra by Hoffman, Kunze. This is an oldie but a goodie. Students may find a copy of the textbook [here](#) or purchase a copy if desired.

COURSE WORK

This course is graded by a methodology called Standard Based Grading. You will be graded on homework problems, in class quizzes called evaluations, and presentations. Instead of getting a numerical grade on an assignment, you receive a rating. The ratings for this course are

- (3)-Master (M)
- (2)- Pass (P)
- (1) -Not yet (NY)

There are no points Each evaluation will have a set of learning objectives. Each objective will have problems assigned to it. To pass a learning objective, a student must pass all the problems tied to the learning objective. In general the following rubric is used.

- (1) (M) Student has mastered the standard by passing all learning objectives in this standard.

Date: Spring 2022.

- (2) (P) Pass. Student has passed all but a few learning outcomes on this evaluation. For homework, this pass means that the proof is well written, organized, and correct. For a presentation, this means that the presentation was well organized and clear.
- (3) (NY) Not yet means the student did not pass many (at least half) of the learning objectives in an eval. For homework, this means that the proof needs to be revised.

This system rewards growth. Rather than losing points throughout the quarter or having high stakes exams Students can learn from their mistakes and try again.

Homework is assigned from your textbook. At least 6 problems will be assigned weekly. 2 problems will be graded from this homework assignments (though I won't tell you which ones!). Homework problems are graded by either a Pass or a Not Yet. Because of the need of frequent revisions, it is *strongly* suggested that you type your homework. Latex systems such as overleaf may be very useful.

Evaluations are taken in class. Students may use a small note card (like with formulas, theorems) and a calculator for each Eval.

- Evaluations will available to take in class. 4 class days will be set aside for evals. Eval days will be annouced in advanced. Based on your performance, you may retake an evaluation a 2nd or 3rd time.
- You can choose which standards to take on eval day.
- You can retake evals during office hours (or by appointment) but you must wait at least 3 days before each retake.
- No evals may be taken after the final day of class except during the final exam day. Students can only take an eval once and only once on the final exam day.
- Ratings will be posted on canvas so that you can keep track of your progress.
- Students must take evals by the second eval day. Students who wait till the end of the quarter to take their evals will not be allowed to take them.

Presentations are an essential part of mathematics. Prepare a 15-20 min presentation on a homework problem you found challenging, a topic from the textbook we did not cover, or an application of linear algebra in applied mathematics.

GRADING POLICY

Grading Policy. There are 5 standards in this course and 16 graded homework problems in this course.

Letter Grade	# of Required	# of HW Problems Passed	Presentation
A	Master 5	14	required
A -	Master 4 and Pass 1	12	required
B+	Master 3 and Pass 2	11	required
B	Master 2 and Pass 3	10	not required
B -	Master 1 and Pass 4	9	not required
C +	Pass 5	8	not required
C	Pass 5	7	not required

Grade	# of Required	# of HW Problems Passed
C -	Pass 4	6
D+	Pass 3	5
D	Pass 2	4
D-	Pass 1	3
F	Pass 0	2 or below

You earn your own grade. From the very start of class, you know how much work you need to put in to get the grade that you want.

Accommodations. I understand the need to set up academic adjustments due to disabilities. Bring a copy of your *Confirmation of Eligibility for Academic Adjustments* to set up proper accommodations. If you need testing accommodations, let me know ahead of time (at least 48 hours prior to the exam date). Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Disability Services is located in Hogue 126. Call (509) 963-2214 or email ds@cwu.edu for more information.

Student Expectations. As a student, you have certain expectations of me. These include knowing the material, answering emails, be present during office hours, showing up to class, and so on. In return I expect all students to put forth effort to work on assignments in the course, come to class almost everyday, participate in class, and be respectful to both peers and instructor.

Due to the current situation, I expect the following from students.

- Every student (and your instructor) is expected and required to wear a mask in class for the first two weeks of class. If you forget your mask, you can get a disposable one from the math office on the second floor. After those two weeks, you are no longer required to wear a mask in this classroom.
- Follow university protocols if you are sick. You can find additional information [here](#).
- We will temporarily go online via zoom if your instructor gets sick or too many students get sick.

In compliance with RCW 28B.137.010, Central Washington University makes every effort to deal reasonably and fairly with students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students must present written notice to their instructor within the first two weeks of class listing the specific dates on which accommodations are required. Contact the Dean of Student Success at (509) 963-1515 for further information or questions.

Professionalism. CWU expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events. As a student in this course, you are expected to treat your professors, fellow students, and other people affiliated with your work at CWU with respect, regardless of their sex, race and color, religion and creed, national origin, sexual orientation, gender identify and gender expression, disability and use of assistive devices or a service animal, and veteran or military status.

Academic Honesty. Consult university policies (CWUP 5-90-040(22), CWUR 2-90-040(22), and WAC 106-125-020) for student conduct, cheating, plagiarism, and other academic expectations. CWU's policies and recommendations for academic misconduct will be followed, leading to disciplinary action up to and including failing the course.

Disability Support Services. Central Washington University is committed to creating a learning environment that meets the needs of its diverse studentbody. If you anticipate or experience any obstacles to learning, contact Disability Services to discuss a range of available options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509)963-2214 or email ds@cwu.edu (<mailto:ds@cwu.edu>) for more information.

Changes. I reserve the right to amend, adjust, or otherwise modify the syllabus at any time during the course. This syllabus is the best approximation of what students should expect during the course.