

**LINEAR ALGEBRA**  
**MATH 3013 - 64299**  
**Fall 2017**

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**Instructor:** Emily Quinn  
**Office:** North Hall \_\_\_\_\_  
**Phone:** Office: \_\_\_\_\_ Cell: 657-777-2365 \*Can Call AND/OR Text!  
**Office Hours:** Tuesdays and Thursdays 6PM to 7PM, or by appointment  
**e-mail:** [emily.quinn@okstate.edu](mailto:emily.quinn@okstate.edu) (when emailing, please include "LA" in the subject line)  
**Online Classroom (D2L) Site:** <https://oc.okstate.edu> (then log in and find our course)  
**Textbook:** Linear Algebra: A Modern Introduction (4<sup>th</sup> Ed.) by David Poole

**Syllabus Attachment.** OSU has compiled useful information that applies to all classes at

<https://academicaffairs.okstate.edu>

This website includes add/drop/withdrawal dates, university holidays, accommodations for students with disabilities, academic resources, and much more. You are responsible for reading this information and having any questions answered.

**Please contact me privately during the first week of the course if you need accommodations as the result of a disability.**

**Course Description.**

**From OSU catalog:**

Prerequisite(s): MATH 2153. Algebra and geometry of finite-dimensional linear spaces, linear transformations, algebra of matrices, eigenvalues and eigenvectors.

**From the instructor:**

This is a three credit-hour mathematics class that goes quickly and is more abstract than calculus. You should expect to average six hours of work outside of class per week, more if you are struggling. It is very difficult to succeed at this level of mathematics without consistently spending that much time reading the textbook, doing practice problems, and getting help.

**Course Evaluation.** Course grades will be determined according to the following distribution.

Homework, Quizzes, and In-Class Activities (Average)	200 points
Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Final Exam	200 points
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TOTAL	700 points

Earning a score of 90% guarantees an A for the semester, 80% a B, 70% a C, and 60% a D. I reserve the right to use discretion if you are on the borderline between two grades, taking into consideration performance on the final exam, improvement or decline during the semester, attendance, and my subjective judgment of your effort. I'll give approximate grade averages after exams.

**Exams.** There will be three (3) 75-minute in-class examinations with a maximum possible score of 100 points each and a 200-point comprehensive Final Examination during Final's Week. **The date and time for the Final Examination will be announced once it is scheduled.** The time for the Final is not negotiable (except when the OSU Final Exam Overload Policy applies).

The dates for the exams are as follows and most likely will not change. Put them on your calendar now and plan ahead.

Exam 1: September 21  
Exam 2: October 24  
Exam 3: November 14

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**Attendance.** Even though I believe that your active participation in this class is important to your success in it, there is no course attendance requirement. You will have an opportunity to earn course credit, however, through regular active participation in the class meetings that can contribute to improving your final course grade.

Here's how it works. You will be assigned an Attendance/Participation Score at the end of the semester. Attendance will be recorded during each class session. Your Attendance/Participation Score is based on 100 points maximum and will be determined by your total days absent from class. You must be fully participating in class to be considered present and determining "full participation" will be left to the discretion of the instructor. Here are some helpful things to remember about the attendance/participation score.

1. You must be present for the **entire** class session in order to be counted as present.
2. Because there is no class attendance requirement, **there are no "excused" absences for any reason**, including university-sponsored activities and illness.
3. The instructor has complete discretion in awarding attendance points. If you are sleeping during class, or are otherwise not participating in class (including texting, working on the computer, etc.), **you will be counted as absent**.
4. The attendance score/participation score is optional and is meant to reward students for good attendance. A low class attendance score (due to excessive absences) will not lower your overall grade.
5. You will be given 100 attendance/participation points at the beginning of the semester. You will receive one "free" absence, with no points deducted. For each absence after that, you will have 5 points deducted from your attendance/participation score.
6. If you have no absences at all during the semester (present at every class meeting), 5 additional bonus points will be added to your attendance/participation score (in this instance, the total is 105).

**Replacing an Exam.** At the end of the semester, you may replace the lowest of the first three exam scores or one of the two final exam scores (if it is your lowest score), provided it improves your letter grade, with points awarded to you as follows:

$$(\text{your lowest exam score} + \text{your attendance/participation score}) \div 2 = \text{the grade that replaces your lowest exam score}$$

**Example:** Sam's lowest exam score is 59 and he has 3 absences. Sam's points are calculated as follows:

Sam's lowest test score	59
Attendance/participation score	+90 (first absence is "free", so $100 - 5 \cdot 2 = 90$ )
	149

Since  $149 \div 2 = 74.5$ , Sam's lowest exam score of 59 will be replaced with a score of 74.5.

**Quizzes, Homework, and In-Class Activities.** I will assign weekly homework. You should do all of the problems, but not all of the problems will be graded. On Tuesdays of most weeks, you will take a quiz, turn in homework, or do both. Homework is due at the beginning of class. On some of the quizzes, I will allow you to use your homework, and the problem(s) will be similar or identical to the homework problems you were assigned. I will not always announce in advance what kind of assessment we will have for the week. In-Class Activities can be assigned any day. Each assessment of this type will be worth an equal number of points, and I will drop your two lowest scores.

Quizzes and written homework are designed both to help you master the material and also to help you learn to communicate mathematical ideas in a clear, rigorous manner. **You should expect to have to work hard to get some of the problems; you don't learn anything by doing problems identical to what I do in class.** Some homework questions will be very conceptual and require deep understanding of the material. Often, you may need to practice problems in addition to the assigned ones – it is your responsibility to make sure you have done enough to be comfortable with the material.

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**Conflicts.** I will offer reasonable accommodation in the event that you miss a major assessment activity for a valid and documented reason, assuming documentation is provided **in advance unless absolutely impossible**. For a quiz or exam, you need to tell me as soon as you know you have a conflict – you will be ineligible for a make-up if you do not. I require proof of the reason for your absence (e.g., a doctor's note, proof of involvement in an OSU-sponsored activity, etc.), and you should not assume you will be eligible for a make-up exam or quiz unless I have explicitly approved your request. If you won't be in class when homework is due, turn it in early, give it to someone else to turn in, or scan and email to me prior to the deadline – late homework will be accepted up to one week late, and all late homework will be worth at most 75% of the value of the homework. Missed quizzes must be made up within one week. In-Class Activities **cannot** be made up.

**Calculators.** You will be allowed one scientific calculator to use on exams (without the ability to do matrices). You may use graphing calculators on homework as a check, but don't use them as a substitute for conceptual understanding.

**Classroom Etiquette.**

- Arrive on time. Remember that arriving late or leaving early **will** cost you your attendance points for the day.
- No loud or odorous food.
- No laptops, iPads, tablets, etc. Cell phones need to be **on silent** or turned off AND **put away**. If there is a serious need to leave your cell phone on or out, such as a family emergency, please notify me before class.

**Drop and Withdrawal Policy.** "Dropping" means withdrawing from a specific course while "withdrawal" means withdrawing from all courses and leaving the University for the balance of the term. The drop and withdrawal dates are noted on the syllabus attachment. IT IS YOUR RESPONSIBILITY TO KNOW AND COMPLY WITH ALL DEADLINES. Reasons similar to those listed below will NOT result in approval for dropping a course after the deadline (from OSU Policy 4.03):

- a. Student's lack of knowledge or misunderstanding of the deadline.
- b. Student waited to get the results of an exam or other assignment.
- c. Student's grades have declined since the deadline.
- d. Student doesn't need the course for graduation.
- e. Different deadlines existed at a previous school.

**Incomplete Grade.** Please refer to: <https://registrar.okstate.edu/FAQ-Incomplete-Grade-Students>

**Academic Integrity.** <http://academicintegrity.okstate.edu>

OSU is committed to maintaining the highest standards of integrity and ethical conduct. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and altering academic records) will result in an official academic sanction. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge.

Working with another person or in study groups on problems can be helpful in learning the material. I encourage you to work together if you find it helpful. However, **all work submitted must be your own**. Copying someone else's problem solution, showing your written solution to someone else, or having another person complete your on line work is prohibited; such behaviors are regarded as violations of academic integrity and will be treated according to the University's policy. In order to be successful in learning the material and doing well on the examinations you must think very hard about the problems themselves before discussing them with anyone else.

**Office of Student Disability Services.** <http://sds.okstate.edu/>

According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they

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receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process to verify the existence of a qualified disability and identify reasonable accommodations.

**What if I need help?** You have many resources for this course. Often students find it helpful to talk to each other and work through homework or practice problems together. You're encouraged to post questions and answers in the Discussion section of the Online Classroom. For quick questions, you can send me an e-mail, and you're always welcome to come by and see me in person during my office hours. **Above all, see me early if you have questions.**

**Final note.** I am more than willing to help you in any way that I can, and I **genuinely** care about your success and general welfare. Please do not hesitate to ask any questions, or voice any concerns! Good luck!

**Any changes in this syllabus will be communicated to you in class by the instructor.**

## **First Assignment (5 points towards your first HW!)**

Please complete this assignment by Friday, August 25.

1. Send me an e-mail at [emily.quinn@okstate.edu](mailto:emily.quinn@okstate.edu). Write a **paragraph** (not a list) including your name, year in school, major, hometown, last math class (and instructor if taken at OSU), and anything interesting about yourself you would like for me to know, especially your interests in and out of school. Please attach a picture of yourself as well. These e-mails let me know something about my students and help me get to know everyone. If you don't get a reply from me within a day, I probably didn't get the email – talk to me about it.
2. Read the Syllabus Attachment at <https://academicaffairs.okstate.edu>