Welcome to Linear Algebra!

ASU: "Face-to face component is not a lecture but provides time for discussion, demonstrations, problem-solving, and higher-level thinking and collaborative activities. Class time is used to apply course content in ways that can only be accomplished when everyone is together in the same place" https://cetlas.appstate.edu/teaching-learning/course-delivery-options

announcements, your questions, starting next time: handwrite that gets turned in to ASULearn, activities review and extend



Dr. Sarah Math 2240: Introduction to Linear Algebra

Where to Get Help

- class—I'm here to help!
- Image: Provide the second state of the second state o
 - -e-Z check in Zoom office hours:

Tues/Thur 9:45–10:30am and 2–3pm Sun/Mon/Wed 7–7:45pm

-private message (NOT e-mail, which gets buried)

I care about you and your success!





http://alangregerman.typepad.com/.a/6a00d83516c0ad53ef0168e783575e970c-800wi

Where Did Our Third Hour Go?



 rolled into the between class time on activities in ASULearn!

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Course and Module 1 Overview

- Linear Systems of Matrix and Vector Equations
 - 1.1, 1.2 & 1.5: Gaussian elimination, algebra and geometry of solutions of systems of equations
 - 1.4: connects all via multiplying a matrix and a vector
 - 1.3 and 1.7: algebra and geometry of column vectors (linear combinations/mixing, span, linear independence) problem set 1
- Matrix Algebra and Spaces problem set 2 in-class assessment 1
- Linear Transformations and Orthogonality problem set 3
- Determinants, Eigenvalues and Eigenvectors problem set 4 in-class assessment 2
- Final Activities and Project

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Scientific Computing and Linear Algebra

Dr. Sarah Math 2240: Introduction to Linear Algebra

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Active Learning Handwrite and Where to Get Help

no eating or drinking at tables, but you may step away if you need to hydrate or similar!

- class—I'm here to help!
- need help from me, tutoring, class, or tech support -e-Z check in Zoom office hours: Tues/Thur 9:45–10:30am and 2–3pm Sun/Mon/Wed 7–7:45pm
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Active Learning Handwrite

- unsolved Collatz conjecture, named for Lothar Collatz
- o prizes

\$1,000,000 provided the proof appeared in a reputable mathematics journal before 2004

Terrance Tao (2019)

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	Class	Between Classes	Class	Between Classes
	Tues	(by 10:30am Thur)	Thur	(by 10:30am Tues)
8/19-	- active	2240 video	1.1	turn in 1.1 handwrite
8/21	learn-	download Maple	hand-	1.2 read the e-text
	ing	(free)	write	1.2 interactive video
	hand-	access e-text	t-shirt	1.2 practice quiz
	write	1.1 read the e-text	Wed	Maple intro video
		1.1 interactive video		submit PDF
		1.1 practice quiz		ASULearn pic
		syllabus		Zoom update & pic
8/26-	- 1.2	re-engage 1.1	1.3	re-engage 1.2
8/28	hand-	turn in 1.2 handwrite	hand-	turn in 1.3 handwrite
	write	1.3 read the e-text	write	1.4 read the e-text
		1.3 interactive video	t-shirt	1.4 interactive video
		1.3 practice quiz	Thur	1.4 practice quiz

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