

Math 310 - Spring 2008

Textbook: Linear Algebra with Applications , by Steven Leon

Syllabus: Chapters 1 - 6 of Leon.

We will cover all the basics and a selection of the applications.

You are encouraged to read more of the applications of linear algebra on your own and to explore the internet and the library for other points of view.

Course Websites: <www.math.uic.edu/~math310> (Department)

<<http://www.math.uic.edu/~kauffman/Math310.html>>(Instructor)

Exams: There will be two in-class hour exams and one final exam.

The hour exams are each worth 25% of your grade. The final exam is worth 40% of your grade and the homework will be worth 10% of your grade. We will occasionally have in-class quizzes for practice. The quizzes will be corrected,

but your performance on the quizzes is not part of your grade.

Instructor: Louis H. Kauffman, 533 SEO, <kauffman@uic.edu>

Office Hours: 3:30PM - 4:30PM MWF in 533 SEO or by appointment.

Homework assignments for Math 310 Spring 2008

Only the * problems are to be turned in for grading.

But you are responsible for working all of the problems assigned.

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Week 1. January 14 - 18

section 1.1 page 11. # 1, 2, 3, 4, 5, 6, 7, 8, 9

section 1.2 page 28. # 6a*,b*,c*,d*, 10*, 12, 13, 20a*,c*

Turn in * problems on Wednesday, January 23

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Week 2. January 21 - 25

section 1.3 page 57. # 1a,b,c,d,2,4*, 8b, 10*, 11,14*,16,21,24,29*,

30*, 32*,33*

Turn in * problems on Wednesday, January 30

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Week 3. January 28 - February 1

section 1.4 page 69. # 1, 2*, 3, 5, 6*, 7*, 8*, 9a*,b*,
10a,b*,c,d,e,f*,g*,h, 11, 15

section 2.1 page 96. # 1, 2*, 3*, 4, 5*, 6*, 11

Turn in * problems on Wednesday, February 6

Week 4. February 4 - February 8

section 2.2 page 103. # 1, 2a*, 3, 4, 5, 6,7*

section 2.3 page 109. # 1, 2a*, 2c*, 2e*, 5*, 6, 12, 14*

Turn in * problems on Wednesday, February 13

Week 5. February 11 - February 15

section 3.1 page 121. # 1*, 2, 3*, 11, 15

section 3.2 page 131. # 1, 2*, 4*,5,6,8,9*,11*,17

section 3.3 page 144. # 1*, 2a*, 2b*, 2d*, 4*, 5, 6*,7, 8, 12*

Turn in * problems on Wednesday, February 20

Week 6. February 18 - February 22

Review for Exam 1 on Monday

EXAM 1 Wednesday, February 20 - Covers all of Chapters 1, 2, 3.1-3.3

section 3.4 page 150. # 1,2, 3*, 4*, 5*, 7*, 8, 9, 10*, 11

Turn in * problems on Wednesday, February 27

Week 7. February 25 - February 29

section 3.5 page 161. # 1*, 2a,c*, 3*, 4*, 5*,6, 7, 9*, 10

section 3.6 page 167. # 1*, 2*, 4a*,c,d,f*, 6*, 7*, 8, 14

Turn in * problems on Wednesday, March 5

Week 8. March 3 - March 7

section 4.1 page 182. # 1*, 2*, 4*, 7, 8, 17*, 18, 24, 25*

section 4.2 page 196. # 2*, 3*, 4*, 5, 6*, 7

Turn in * problems on Wednesday, March 12

Week 9. March 10 - March 14

section 4.2 page 198. # 13*, 14*, 15*

section 4.3 page 204. # 1*, 2a*,b*, 3*, 4*, 5*, 6*

section 5.1 page 223. # 1*, 2*, 3*, 4, 5*, 6*, 7*, 8*, 9*, 15*

Turn in * problems on Wednesday, March 19

Week 10. March 17 - March 21

section 5.2 page 233. # 1a*,b*,c*, d*, 2*, 4*, 5*, 6, 9
section 5.3 page 243. # 1a*,b,c*, 2a*,b, 3*, 5*, 6*, 10, 14
Turn in * problems on Wednesday, March 26

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Week 11. March 21 - March 25
section 5.4 page 252. # 1*, 2*, 3*, 7*, 8*, 9, 29
section 5.5 page 270. # 1*, 2*, 3*, 4, 5, 6*, 8*, 21*, 22*, 27
Turn in * problems on Wednesday, April 2

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Week 12 March 24 - 28
SPRING BREAK

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Week 13 March 31 - April 4
section 5.6 page 281. # 1*, 2*, 3*, 4*, 5a*, c*, 6a,c, 8*
Turn in * problems on Wednesday, April 9
EXAM 2 Friday April 4 - Covers all of Chapters 3.4 to 5.6

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Week 13 April 7 - April 11
section 6.1 page 310. # 1a*,b*,c*,e*,f*,h*,k*, 4, 5, 6, 10, 11*,
Turn in * problems on Wednesday, April 16

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Week 14. April 14 - April 18
section 6.2 page 323. # 1a*,b*,c*,e*,f*, 2a*, b*, 4, 5*
section 6.3 page 340. # 1a*,b*,c*,d*, e*, 2b*,c*, 4*, 9
Turn in * problems on Wednesday, April 23

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Week 15. April 21 - April 25
section 6.3 page 342. # 20*, 21*,22*, 26*, 27b*, 28a*,b*
section 6.4 page 352. # 1*,2*,4a*,b*,c*,e*, 5a*,b*
Turn in * problems on Wednesday, April 30

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Week 16. April 28 - May 1
Review and practice sample final exams.

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Final Exam, May 5 - 8, Covers EVERYTHING!

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