



Linear Algebra

MAS 4105 – 6137
Fall 2019

Time: MTWF period 7
Place: Matherly 4
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Textbook: Linear Algebra (4th edition) by Friedberg, Insel, Spence

Office Hours: Monday, Wednesday, Friday – period 4
(or by appointment)

TA (grader): Jamie Scott (Room: LIT 431 ; office hours: period 3 Tues, period 6 Fri;
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Homework

Page 14 #8,12,13

Page 20 #4,10,30

Page 32 #2a,b,c, 4a, 5g, 7, 8

Page 40 #2a,d, 4, 5, 9, 10

Page 195 #2a,b

due Fri 30 Aug

The null space and range space of an $m \times n$ matrix are subspaces of \mathbb{R}^n and \mathbb{R}^m , respectively.

Page 54 #2a,3a,8,9,13,16,26,29

Page 74 #3,5,9e,10,12,14a,22

Page 84 #2b,3,4,9

Page 96 #2b,3,4a,b

Page 106 #2a,b,c,d,16

Prove that, for $n \times n$ matrices A, B , the matrix AB is invertible if and only if A and B are invertible.

Page 116 #2a,b,c,3a,b,4,5,7

Page 166 #5d,e,6a

Page 208 #3a,4a

Page 221 #6,17

Page 229 #9,12,15

due Tues, Feb. 19

Page 257 #3ab,4ae,8b,9,11c,15a,22c

Page 279 #2bef,3ace,7,10,11

Page 336 #2,3,4b,10,11,12,17

Prove inner product space axiom (3) for Example (3) from class.

Page 353 #2acd,4,7,9,15a,16a,19b,20b

Page 366 #2a,3b,6,8,20a

Prove: If A is normal, then so is $A - cI$ for any scalar c .

Page 374 #2ac,7,11

Page 382 #2a,7,17

The intersection of eigenspaces belonging to distinct eigenvalues is trivial.

Topics

Vector Spaces
Linear Transformations and Matrices
Systems of Linear Equations
Determinants
Eigenvalues and Eigenvectors
Inner Product Spaces

Messages

Welcome to Linear Algebra

Free tutoring at the Teaching Center, SW Broward Hall. Check [Teaching Center](#) for the time schedule.

Students with disabilities requesting accommodations should first register with the [Disability Resource Center](#) (352-392-8565) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

The course will be conducted in accordance with the [academic honesty policy](#), and policy regarding the use of copyrighted material.

“Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: [attendance policies](#).”

Information on current UF grading policies for assigning grade points may be found at: [grades](#).

Students are expected to provide feedback on the quality of instruction in this course by completing [online evaluations](#). Evaluations are typically open during the last two or three weeks of the semester, but students

will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

Grades

3 Exams – 75%
 September 18
 October 23
 December 2
10 Quizzes – 25%
Homework



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