

COURSE SYLLABUS

MATH 2641— LINEAR ALGEBRA I

Fall 2019

(CRN: 87548 - MATH 2641 – Section: 006)

Day and Time: TR 3:45-5:00 p.m.

Room: Classroom South 205

Instructor: Dr. Igor Belykh

Office: 25 Park Place 1309

Departmental phone: (404) 413-6400

Direct phone: (404) 413-6411

e-mail: ibelykh@gsu.edu

Office hours: TR 2:30-3:30 pm or by appointment.

Text book: *Linear Algebra and its Applications*, Fifth Edition, by David Lay. You will need to buy the access to Pearson **MyLab Math for Linear Algebra and Its Applications, 5/e ISBN: 9780321199911**. The book is included electronically. You can buy or rent a hard copy, but it is not required. Our course ID is: **belykh70135**

Prerequisites: Grade of C or better in Math 2212.

Note: During the first week of the semester the Department of Mathematics and Statistics checks the computer records to determine whether or not each student has met the prerequisites for this course. If you do not have the prerequisites, please inform your instructor and change to another course right away. If our computer search finds that you do not have the prerequisite, you must drop this course, or you will be dropped automatically.

General Course Outline:

Chapter 1: Linear Equations in Linear Algebra. Sections 1.1-1.5, 1.7-1.9

Chapter 2: Matrix Algebra. Sections 2.1-2.3, 2.5

Chapter 3: Determinants. Sections 3.1-3.2

Chapter 4: Vector Spaces. Sections 4.1-4.7

Chapter 5: Eigenvalues and Eigenvectors. Sections 5.1-5.2

Homework: Online graded homework will be made available on the Pearson MyLab Math website (see above) throughout the semester. Specific homework instructions will be provided in class. The average of all homework grades will contribute 20% to your course grade.

Examinations: There will be in-class tests and the final exam. All midterm tests will be taken during the regular class time and in the regular classroom. There will be no make-up exams except in an extreme verifiable emergency. Absence from the final exam will result in a grade of F for the course unless arrangements are made prior to its administration.

Tentative test dates (subject to change) Tests I, II and III: September 24, October 22, and November 21.

Final Examination: Tuesday, December 10 at 1:30 pm through 4:00 pm

Note: November 25-30 (Thanksgiving break) no classes

Class attendance: 4 points will be given for class attendance. Attendance will be taken daily, and it is your responsibility to sign the attendance sheet. Good or bad attendance during the first week doesn't count (unless you entirely miss the first week of classes – see the no-show policy above). After that, you start with 4 percentage points for your attendance grade. Two absences will not cost you any points. After the first two free absences, you will lose 0.5 point for each absence, regardless of the reason. If you're significantly tardy for class, your attendance for that day will not count.

Grading

Homework: 20%; **Midterm tests:** 50%; **Final exam:** 30%.

The final grade will be awarded as follows.

98 – 100% = A+

93 – 97% = A

90 – 92% = A-

87 – 90% = B+

83 – 86% = B

80 – 82% = B-

77 – 79% = C+

70 – 76% = C

60 – 69% = D

0 – 59% = F

Example of final grade computation: Test grades: T1 = 88, T2 = 72, T3 = 73; Homework average = 94; Attendance = 4 (full credit); Final Exam = 76;

Final grade: $0.20*94 + 4 + 0.50*(88+72+73)/3 + 0.30*76 = 84.4333\dots$ rounds to 84 which is a B.

Classroom Policy: Please refrain from using cell phones and laptops in the classroom. Copying on exams will result in a grade of zero, an F in the course, and will be reported. Administrative action will be taken. See the University's policy on <https://codeofconduct.gsu.edu/>

Missed exam policy: There will be no makeup exams except in extreme cases that MUST be justified. Missed exams will receive a grade of zero. Any conflicts must be worked out with me ahead of time.

Attendance policy: Come to class on time and do not leave early. Anything else is rude and disruptive. **If for any reason the University is closed on a test day, the test will be given at the next regularly scheduled class meeting. A student is responsible for all material covered in class, whether he or she attended the class or not. The instructor may drop a student from the roll for exceeding three class absences. Any student who does not complete the course for any reason must officially withdraw from the course or will be awarded a grade of F.**

Withdrawal Policy: See the University's withdrawal policy here: <https://advisement.gsu.edu/self-service/policies/withdrawal-policy/>

The following policy applies to all courses in the Department of Mathematics and Statistics:

- If you do not attend class during the first two weeks you will be administratively dropped.
- Administrative withdrawal – students with excessive absences or students without the necessary prerequisites will be administratively withdrawn.

Disruptive behavior: See the University's policy on disruptive behavior:
https://deanofstudents.gsu.edu/files/2018/10/2018-2019_Disruptive_Student.pdf

Constructive assessment of this course plays an indispensable role in shaping education at Georgia State. Upon completing the course, please take time to fill out the online course evaluation.

Students who wish to request accommodation for a disability may do so by registering with the Office of Disability Services. Students may only be accommodated upon issuance by the Office of Disability Services of a signed Accommodation Plan and are responsible for providing a copy of that plan to instructors of all classes in which accommodations are sought.