Math 515 Introduction to Linear Algebra

SYLLABUS OF SPRING 2020 SEMESTER
Tuesdays & Thursdays, 9:30–10:45 a.m., 122 Cardwell Hall
Instructor: Gabriel Nagy
Email: nagy@math.ksu.edu

OBJECTIVE: Linear Algebra is a field of Mathematics originating in the study of systems of linear equations using both the abstract notions of vector spaces and linear operators, as well as the more concrete computational tools, such as matrices. This course is aimed at covering most fundamental concepts of linear algebra – linear spaces, linear operators, matrix representations, systems of linear equations, determinants, spectral theory, & inner products spaces – with an emphasis on mathematical rigor, especially on proof writing.


GRADING: The final grade is computed based on a maximum total score of 450 points: 100 points for the Homework (see below), 100 points for each of the two Midterm Exams, and 150 points for the Final Exam.

EXAMINATIONS (Rooms TBA): The two Midterm Exams are on Thursday, February 27 & Thursday April 9, 9:30–10:45am. The Final Exam is on Monday, May 11, 2:00–3:50pm. At each exam, you may bring one sheet of 8 1/2 by 11 inch paper, with whatever notes, equations or formulas you wish to write (written on both sides).

Missed exams: If you expect to miss a midterm exam for a legitimate reason (illness or hospitalization, for example), please notify your instructor as soon as possible. If your instructor deems the absence excusable then your other exams will be weighted to make up for the missing one; otherwise your score on it will be zero. There will be no make-up exams. A grade of incomplete may be given to a student who has missed more than one midterm or the final exam, if verifiable circumstances warrant it. It is your responsibility to discuss the situation with your instructor should your personal situation suggest this as a possibility.

HOMEWORK: The homework is assigned on a weekly basis; the problem sets and the due dates (Wednesdays in every week) will be posted on Canvas. Each assignment is scaled to a maximum of 10 points and the Homework point total is the sum of the best 10 (out of 14) scores. Homework is to be turned in to the Math 515 homework box outside the math office in Cardwell Hall, by 5 p.m. on the due date. Write your name, course number (Math 515), HW number on the top of the first page and staple if you are submitting multiple pages. Please write neatly and legibly, and present your answers in an organized and coherent form. You must show work and provide all
**needed justification for every problem solved; a correct answer alone will not receive any credit! Absolutely no late homework will be accepted!**

**STATEMENT REGARDING ACADEMIC HONESTY**
Kansas State University has an Honor and Integrity System based on personal integrity, which is presumed to be sufficient assurance that, in academic matters, one's work is performed honestly and without unauthorized assistance. Undergraduate and graduate students, by registration, acknowledge the jurisdiction of the Honor and Integrity System. The policies and procedures of the Honor and Integrity System apply to all full and part-time students enrolled in undergraduate and graduate courses on-campus, off-campus, and via distance learning. The Honor and Integrity System website can be reached via the following URL: [www.ksu.edu/honor](http://www.ksu.edu/honor). A component vital to the Honor and Integrity System is the inclusion of the Honor Pledge which applies to all assignments, examinations, or other course work undertaken by students. The Honor Pledge is implied, whether or not it is stated: "On my honor, as a student, I have neither given nor received unauthorized aid on this academic work." A grade of XF can result from a breach of academic honesty. The F indicates failure in the course; the X indicates the reason is an Honor Pledge violation.

**STATEMENT REGARDING STUDENTS WITH DISABILITIES**
Students with disabilities who need classroom accommodations, access to technology, or information about emergency building/campus evacuation processes should contact the Student Access Center and/or their instructor. Services are available to students with a wide range of disabilities including, but not limited to, physical disabilities, medical conditions, learning disabilities, attention deficit disorder, depression, and anxiety. If you are a student enrolled in campus/online courses through the Manhattan or Olathe campuses, contact the Student Access Center at [accesscenter@k-state.edu](mailto:accesscenter@k-state.edu), 785-532-6441; for K-State Polytechnic campus, contact Academic and Student Services at [polytechnicadvising@ksu.edu](mailto:polytechnicadvising@ksu.edu) or call 785-826-2974.

**STATEMENT DEFINING EXPECTATIONS FOR CLASSROOM CONDUCT**
All student activities in the University, including this course, are governed by the [Student Judicial Conduct Code](http://example.com) as outlined in the Student Governing Association [By Laws](http://example.com), Article V, Section 3, number 2. Students who engage in behavior that disrupts the learning environment may be asked to leave the class.