Course Syllabus   MATH 231: Linear Algebra I

Instructor	Nicholas Vlamis	**Office**	507 Kiely Hall
E-mail	nicholas.vlamis@qc.cuny.edu	**Office Hour**	Monday/Wednesday 4–5pm
Class	MW 10:05–11:55am, 242 Kiely Hall	**Course Website**	231.nickvlamis.com

Course Description

This is a standard first course in linear algebra. We will begin with solving systems of linear equations and then turn to studying the basic geometry of Euclidean spaces in dimensions two and three (where we have intuition) and then generalize to arbitrary dimension. From there, we will further abstract ourselves and learn about general vector spaces and study their linear transformations.

Prerequisites

The official prerequisite is one semester of calculus. However, we may use examples that require knowledge of integrals.

Course Textbook

David C. Lay, Steven R. Lay, and Judi J. McDonald. *Linear Algebra and Its Applications, sixth edition.* Pearson, 2021.

Course Website

With the exception of grades, all course content will be accessed via our course website: https://231.nickvlamis.com. Grades will be posted on Blackboard.

Assessment

Your course grade will be determined from the following categories and weights:

Homework & Quizzes	25%
Exams	75%

There will be a weekly quiz, usually given on Wednesdays, that will be based on the assigned homework. Homework will be collected with the quizzes and graded for completion. Your lowest quiz grade will be dropped.

The two midterms will be equal weight, so each is worth 25% of your total grade. The first exam will be **Wednesday, March 1**; the second exam will be **Monday, April 3**. The third and final exam will be given during the allotted final exam slot on **Monday, May 22 11am–1pm in Kiely 242**.

Office Hour

My office hour will be held in my office in Kiely Hall. This time will be student driven, so please come with questions—you can ask me anything you like. You may also make an appointment to meet with me at a time outside of office hours if necessary. Individual in-person meetings can be made by appointment if necessary and held in my office, 507 Kiely Hall.

Student Concerns

Any student with a disability or other special circumstances should make an appointment and discuss this with me. Students with disabilities needing academic accommodation should register with and provide documentation to the Office of Special Services. You can reach them by phone

at 718-997-5870 (you may need to leave a voicemail) or via the internet at https://www.qc.cuny.edu/StudentLife/services/specialserv/Pages/default.aspx?. The Office of Special Services will provide a letter for you to give to me indicating the need for accommodation and the nature of it. This should be done during the first week of class. For more information about services available to Queens College students, contact the Office of Special Services.

MQR Outcomes

This course satisfies the MQR designation for the Pathways General Education Program at Queens College. As such, the course satisfies the following learning outcomes:

- MQR 1: Interpret and draw appropriate inferences from quantitative representations, such as formulas, graphs, or tables.
- MQR 2: Use algebraic, numerical, graphical, or statistical methods to draw accurate conclusions and solve mathematical problems.
- MQR 3: Represent quantitative problems expressed in natural language in a suitable mathematical format.
- MQR 4: Effectively communicate quantitative analysis or solutions to mathematical problems in written or oral form.
- MQR 5: Evaluate solutions to problems for reasonableness using a variety of means, including informed estimation.
- MQR 6: Apply mathematical methods to problems in other fields of study.