

# MATH 265.002 - Elementary Linear Algebra - Fall 2021

## Instructor/Class Information

<b>Instructor</b>	Dr. Vince Guingona vgingona@towson.edu YR 226
<b>Class Times</b>	Wednesday and Friday, 10:00am - 11:50am, YR 219
<b>Office Hours</b>	Monday, 2:00pm - 4:00pm Wednesday, 2:00pm - 3:00pm or by appointment
<b>Exam Dates (tentative)</b>	Wednesday, September 29, 10:00am - 10:50am Wednesday, November 3, 10:00am - 10:50am Wednesday, December 8, 10:00am - 10:50am
<b>Final Exam</b>	Monday, December 20, 8:00am - 10:00am

## Course Information

**Prerequisites.** MATH 211 or MATH 273.

**Course Description.** Matrix calculations and determinants, vector spaces over the real numbers, linear transformations, eigenvalues, eigenvectors, and inner products with emphasis on applications. Not open to students who have successfully completed MATH 365 or MATH 463.

**Course Objectives.** We will start by learning to solve systems of linear equations, introducing matrices and vectors as tools to help with this. We will then proceed to study vectors and matrices as mathematical objects in their own right. We will learn how to perform operations on matrices and how to calculate their determinants, inverses, eigenvalues, and eigenvectors. We will study vector spaces and the various different spaces associated with a particular matrix and we will study linear transformations between vector spaces.

**Course Materials.** Linear Algebra and its Applications, 5th Edition, by David C. Lay.

*Cook Library has placed a copy of the book for this course on reserve. You can borrow the book from the library for free for two hours at a time by going to the Circulation Desk on the main floor of Cook, asking for the title, and presenting your OneCard.*

## Grading Policy

Your course grade will be based on the following assessments:

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Homework	10%
Quizzes	20%
Three Midterm Exams	45%
Final Exam	25%

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**Exams.** There will be three midterm exams given throughout the semester. Each of these exams will account for 15% of your course grade. The exact time of the exams will be posted on the *Timeline* section in the main menu. The final exam, accounting for 25% of your course grade, will be cumulative. These exams are "Closed Book" exams; the use of external resources during the exam is prohibited.

The homework assignments will be worth 10% of your course grade and the quizzes will be worth 20% of your course grade. The due dates for these will be posted on the *Timeline* section in the main menu.

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Percent	0-59%	60–66%	67-69%	70-76%	77–79%	80-82%	83-86%	87-89%	90-92%	93-100%
Grade	F	D	D+	C	C+	B–	B	B+	A–	A

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## Homework, Labs, and Quizzes

**Homework Assignments.** For homework assignments, we will use *WebWork*, a free web-based homework system. *WebWork* assignments will be assigned once a week, and a typical assignment will have 6-10 problems. In most cases, you will have up to 5 attempts to solve a problem correctly. The due dates of *WebWork* assignments (on Tuesdays at 11:59pm) will be posted on the *Timeline*. Please try to resolve any questions you have with a *WebWork* assignment by noon on its due date. Most likely, last minute questions will not be answered before the assignment closes.

**Quizzes.** Throughout the course of the semester there will be 10 quizzes. Typically, the quizzes will require fluency in material that has been covered during the prior week, but the due date and the precise scope for each quiz will be posted on the *Timeline*. As with the exams, quizzes are "Closed Book"; the use of external resources during the quiz is prohibited.

## Other Policies

**Attendance.** As in all TU classes, regular class attendance is expected. If you are absent from class, it is your responsibility to get any missed information from your classmates.

**Make-ups and Late Work.** Late *WebWork* assignments will not be accepted, and no make-up quizzes will be given. In case of a documented excused absence that covers a *WebWork* assignment or a quiz, you will be exempted from that assessment and the respective grade simply will not be a part of your grade record. If you have a documented excused absence that covers an exam, I will work with you to find a reasonable alternative accommodation.

It is TU policy to excuse student absences for the following reasons: illness or injury when the student is unable to attend class; death of a family member (see the [Student Bereavement Procedure](#) on the website); religious observance where the nature of the observance prevents the student from attending class; participation in University activities at the request of University authorities; and compelling verifiable circumstances beyond the control of the student. Absences that do not fall in any of these four categories are unexcused. In case of a scheduled excused absence, the student must provide documentation at least one week prior to the date of the absence for it to be excused; otherwise, documentation must be provided as soon as possible.

**Academic Integrity.** Exams, quizzes, labs, and *WebWork* assignments are to be completed strictly individually using only the material provided by your instructor. Students are expected to be familiar with TU's [Student Academic Integrity Policy](#), especially the sections that define plagiarism, cheating and complicity (II.B–II.E) and describe the possible grade penalties (V.C).

**Accessibility and Disability Services (ADS):** This course is in compliance with Towson University policies for students with disabilities. Students with disabilities are encouraged to register with ADS at:

7720 York Road, Suite 232  
410-704-2638

Students who expect that they have a disability but do not have documentation are encouraged to contact ADS (see the ADS website) for advice on how to obtain appropriate evaluation. A memo from ADS authorizing your accommodation is needed before any accommodation can be made.

**Diversity.** In accordance with TU, FCSM, and departmental objectives, everyone in this course is expected to be respectful of each other without regard to race, class, linguistic background, religion, political beliefs, sex, gender identity or expression, sexual orientation, ethnicity, age, veterans status, or physical ability. If you feel that these expectations have not been met, please, contact Dr. Elizabeth Goode.

**Mask Policy.** The University has set clear expectations about mask wearing for the safety of all in our community. Face coverings over the nose and mouth are required at all times while indoors. There are no exceptions to this rule. Students not wearing a mask -- or wearing a mask improperly -- will be asked to wear a mask or to fix their mask position. Any student refusing to put on or wear a mask will be asked to leave the classroom immediately. Students who have additional incidents with the mask expectation after a first warning will be referred to the Office of Student Conduct for failure to comply with this University directive.