

MATH 1600 Linear Algebra

Summer Evening 2018, TuTh 7:00pm-9:30pm, SSC 2032

Instructor: Allen O'Hara

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Office Hours: 4:30-5:30 a.m. on Tuesday and Thursday or by appointment

Course Description: Properties and applications of vectors; matrix algebra; solving systems of linear equations; determinants; vector spaces; independence; orthogonality; eigenvalues and eigenvectors. Week-by-week topics, in more detail, appear here as we go.

Course Assessments: Making up the students' grades will be in-lab quizzes accounting for a total of 30% of the course grade, homework assignments worth 20% of the grade, and a final exam worth the remaining 50% of the grade. The final exam will be scheduled by the Registrars office and will be announced later.

Textbook: The textbook, D. Poole, Linear Algebra: A Modern Introduction, custom coursepack, is available at the bookstore. It should be possible to find used copies as well. There is also a "Student Solutions Manual" but it is not required.

Prerequisites: One or more of Ontario Secondary School MCV4U, the former Ontario Secondary School MGA4U, Mathematics 1229A/B, the former Mathematics 017a/b, Calculus 1100A/B, or Calculus 1000A/B (formerly 050a/b) taken as a pre- or co-requisite.

"Unless you have either the prerequisites for this course or the written special permission of your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event you are dropped from a course for failing to have the necessary prerequisites." - UWO Senate

Antirequisites: Applied Mathematics 1411A/B, 2811B, the former Linear Algebra 1600A/B.

What Is Expected Of The Student: The aim of the course is to continue the more rigorous treatment of calculus that began in 1500. This will require a considerable effort on your part. For each hour of lecture, you should spend about 2 hours studying the material at home. Due to the pace of the course being dictated by the lectures, it is highly recommended that you attend every class.

Remember, you understand the course material if you can answer new questions about it. Being able to answer similar questions repeatedly just shows that you remember a formula and being able to reproduce results from class only demonstrates memorization. While these are certainly important, you should not confuse them with a true understanding of the concepts.

In addition, students are expected to abide by the course and university policies and to maintain a healthy environment of respect and openness.

Course Policies:

- With regards to e-mails being sent to the professor or other students, remember to be respectful of the other party and to use appropriate language in your correspondence. E-mails to the professor will receive a response within a span of two days, barring any extreme circumstances such as health.
- Calculators will not be permitted for any of the examinations in the course.

- The written assignments are expected to be handed in on time. Late assignments will not be marked. Exceptions may be made if discussed prior to the due date or in the case of a medical issue.
- Classroom behaviour is expected to create an open and tolerant atmosphere. Students are to be respectful of each other and the professor. This extends to using laptops only for notes and keeping cell phones off or on silent.

University Policies:

- Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a scholastic offence, at the following web site:

<http://www.uwo.ca/ombuds/student/cheating.pdf>

- Students who require an alternate format for the course material or who require other accessibility arrangements are encouraged to contact the instructor and Services for Students with Disabilities (SSD). Additional information on accessibility can be found at the following web site:

<http://www.uwo.ca/ombuds/student/Disabilities.pdf>

- If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to your faculty's Dean's Office as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor once the accommodation has been approved and the instructor has been informed. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from your faculty's Dean's Office immediately. For further information please see:

<http://www.uwo.ca/univsec/handbook/appeals/medical.pdf>

A student requiring academic accommodation due to illness, should use the Student Medical Certificate when visiting an off-campus medical facility or request a Records Release Form (located in the Dean's Office) for visits to Student Health Services. The form can be found at:

https://studentservices.uwo.ca/secure/medical_document.pdf