

THE UNIVERSITY OF WESTERN ONTARIO
DEPARTMENT OF MATHEMATICS

Mathematics 1229A
Methods of Matrix Algebra

May-July 2018

INSTRUCTOR:

650 Dr. Mohsen Mollahajjaghaei

mmollaha@uwo.ca

TEXTBOOK:

Custom Edition of *Elementary Linear Algebra* by S. Venit, W. Bishop and J. Brown, published by Nelson Education Ltd.,

You will require WebAssign code.

PREREQUISITES:

One or more of Ontario Secondary School MCF3M, MCR3U, or equivalent.

ANTIREQUISITES:

Applied Mathematics 1411A/B, 2811B, Mathematics 1600A/B, 2120A/B, 2155F/G, 2211A/B, the former 2155A/B.

COURSE OUTLINE:

Vectors in \mathbb{R}^m ; Equations of lines and planes; Linear Equations; Solution of Linear Systems; Matrix Algebra; Matrix Multiplication and Inverses; Determinants.

COURSE WEB SITE:

Various supplemental materials, such as required extra homework problems, practice tests, and solutions to the homework exercises, are posted on the course OWL web site. In addition, there are forums on which students may post questions. Important information will be posted on OWL. All students are expected to be aware of information, and make use of materials, posted on the course web site. As well, this section uses the online quizzes as the class work component of the grade.

WHAT IS EXPECTED OF THE STUDENT?

Students should read textbook, watch the lecture notes, make a serious effort to understand all course material and do all the assigned homework. It is up to the student to seek out help when needed. The student is responsible for being aware of all relevant information posted on the OWL web site.

Please contact your course instructor if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 6612111 x82147 for any specific question regarding an accommodation.

EVALUATION OF STUDENT PERFORMANCE:

Students will be assessed on the basis of "Class Work", a Midterm, and a Final Exam. The means of assessing the Class Work component will be determined by the Online Quizzes. You will require WebAssign code.

The midterm will be 90 minutes in length. Details of this test will be announced on the course web site.

The Final Exam will be 3 hours in length, covering all of the course material.

Calculation of Final Grade:

The midterm will count for 25%, the Final Exam will count for 50% and the the remaining 25% will be assigned to Online Quizzes.

Notes:

1. The Term Test and Exam will all have some multiple choice questions and some written answer questions.
2. NO calculators or other electronic devices or any other aids are allowed on tests and exams.
3. See Absence / Missed Work policy on next page.

INSTRUCTOR CONTACT INFORMATION: (any changes/updates will be posted in the course OWL web site)

Mohsen. Mollahajiaghaei (650): mmollaha@uwo.ca, Middlesex College 120.

Note: Any email sent to an instructor MUST say Math 1229A in the subject line. Any email without this, and/or any email sent from other than a UWO email address, may be deleted unread.

SENATE POLICY ON PREREQUISITES:

Prerequisite checking is the student's responsibility. Unless you have either the prerequisites for this course or written special permission from 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 that you are dropped from a course for failing to have the necessary prerequisites.

STATEMENT ON ACADEMIC OFFENCES:

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/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf Computermarked multiplechoice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

ABSENCE / MISSED WORK:

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 Dean's Office* as soon as possible and contact *your instructor* immediately. It is the student's responsibility to make alternative arrangements with his or her 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 the Dean's Office immediately. For further information concerning UWO's Policy on Accommodation for Medical Illness please refer to this policy at: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_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 Record's Release Form (located in the Dean's Office) for visits to Student Health Services. The form can be found here: https://studentservices.uwo.ca/secure/medical_document.pdf

A makeup will be held for each term test as well as for the final exam. Only students with prior permission from their instructor will be allowed to write the makeup for a test. Only students with a Recommendation for Special Exam from their Dean's Office will be allowed to write a

makeup for the Final Exam. Any student who misses a portion of the Class Work component of the grade for any legitimate reason should contact your instructor as soon as possible. Supporting documentation may be required. In the case of missed Class Work, or if a student is unable to write the scheduled makeup for a Term Test due to a documented prolonged or recurring absence or other legitimate conflict, your instructor will decide whether to accommodate by rescheduling or by reweighting that component of the grade.

SUPPORT SERVICES

Office of the Registrar

UWO <http://www.registrar.uwo.ca>

Brescia <http://brescia.uwo.ca/academics/registrarservices/>

Huron:

<http://www.huronuc.on.ca/CurrentStudents/StudentLifeandSupportServices/AcademicResources>

King's <http://www.kings.uwo.ca/academics/academicdeansoffice/>

Student Development Services <http://www.sdc.uwo.ca/>

Learning Skills Services <http://sdc.uwo.ca/learning/>

USC <http://westernusc.ca/services/>

Academic Calendar <http://www.westerncalendar.uwo.ca/>

ITS <http://www.uwo.ca/its/help desk>

Students who are in emotional/mental distress should refer to Mental Health @ Western via the link given below for a complete list of the options about how to obtain help:

<http://www.uwo.ca/uwocom/mentalhealth/>