# Math 1600a -- Linear Algebra

Math 1600a: Linear Algebra (Fall 2017). Please check this course web page and the <u>exercises</u> page for updates.

Instructor	Graham Denham	Instructor	Federico Pasini
Office	MC 135	Office	MC 121
Phone	x86527	Phone	
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Office hours	Wed, Fri 2:30-3:30	Office hours	ТВА

Here you will find occasional notes from Section 001.

	Section 001	Section 002		
Class times	MWF 8:30-9:20	MWF 10:30-11:20		
Class location	<u>3M-3250</u>	<u>3M-3250</u>		

	1 hour per week. The TA reviews material from the course and answers questions, and the tutorials also include <b>quizzes</b> (see below). You must attend the tutorial you are registered for (see your schedule). Tutorials will meet for the first time in the second week (13 or 14 September). Both lecture sections share the following seven lab sections:								
Tutorials	003	Wed 12:30	HSB 13	Vergura	006	Wed 3:30	HSB 13	Richardson	
	004	Thu 2:30	HSB 13	Dugdale	007	Thu 12:30	HSB 13	Cizek	
	005	Thu 11:30	HSB 16	Valluri	008	Wed 11:30	SSC 1032	Richardson	
					009	Wed 1:30	HSB 13	Vergura	
Help centre	MC 106, 2:30-6:30pm, weekdays. (This is the common help centre for all first year math courses.)								
TA office hours	two hours a week. Monday at 1:30pm and Tuesday at 5:30pm, in MC 104.								
Homework	A list of <u>suggested exercises</u> . This will be accompanied by a collection of <u>Webassign</u> problems.								

	1 hour per week. The TA reviews material from the course and answers questions, and the tutorials also include <b>quizzes</b> (see below). You must attend the tutorial you are registered for (see your schedule). Tutorials will meet for the first time in the second week (13 or 14 September). Both lecture sections share the following seven lab sections:								
Tutorials	003	Wed 12:30	HSB 13	Vergura	006	Wed 3:30	HSB 13	Richardson	1
	004	Thu 2:30	HSB 13	Dugdale	007	Thu 12:30	HSB 13	Cizek	4
	005	Thu 11:30	HSB 16	Valluri	008	Wed 11:30	SSC 1032	Richardson	
					009	Wed 1:30	HSB 13	Vergura	
Course outline	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.								
Textbook	The textbook, D. Poole, <i>Linear Algebra: A Modern Introduction</i> , custom coursepack, is available at the <u>bookstore</u> . It should be possible to find used copies as well. There is also a "Student Solutions Manual" but it is not required.								
Electronic resources	The textbook comes with a <u>Webassign</u> access code. With it, you will have access to some computer-graded homework problems. Although this work isn't part of the course grade, you are strongly encouraged to make use of this tool for practice. We will also be using <u>Maple TA</u> : this provides still more practice problems, as well as a weekly online quiz. This is required for the lab component of the course, and can be purchased online directly from the <u>Maplesoft web</u> <u>store</u> . Important: this link contains a promotion code which you will need. You can find the login page here.								
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.								
Antirequisites	Appl	ied Mather	matics 1	411A/B, 2	28111	B, the forn	ner Linear	Algebra 160	0A/B.
Web page	This be up	This page is always available at <u>gdenham.math.uwo.ca/class/1600/</u> , and it will be updated throughout the semester.							
Tutorial schedule	There will be approximately 10 quizzes throughout the year, during the tutorials. The <u>schedule</u> will appear here. The quizzes will cover the material								

Tutorials	1 hour per week. The TA reviews material from the course and answers questions, and the tutorials also include <b>quizzes</b> (see below). You must attend the tutorial you are registered for (see your schedule). Tutorials will meet for the first time in the second week (13 or 14 September). Both lecture sections share the following seven lab sections:								
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					009	Wed 1:30	HSB 13	Vergura	
	up to and including what was covered on Monday's lecture. Important: the quizzes will use Maple TA, so you will need a license.								
Midterm exam	November 2nd, 7-9pm								
Final exam	The final exam will cover all the material from the course. December 17, 7-10pm; Alumni Hall 201 / Alumni Hall Stage (MIRA-ZHU)								
Review sessions	December 13, 10:30-11:30 December 14, 12:30-1:30 December 15, 1:30-2:30 all in SSC 2020.								
Evaluation	Final exam: 50%; midterm: 30%; quizzes: 15%; participation: 5%. The lowest quiz score will be dropped.								

### Quizzes and exams

For quizzes and exams, questions will be similar — but not identical — to the exercises in the textbook. The best way to prepare for quizzes and exams is to do as many exercises as possible. Note that the point is not to learn solutions by heart, but to gain experience in finding them. Please note that it is important to attend the lecture and tutorial sections for which you are enrolled.

### Missed quiz, midterm or final exam

Quizzes will take place at your scheduled tutorial time. There will be no make-up quizzes. Remember that the lowest quiz grade is dropped, to take into account absences for unforeseen reasons. If you have a conflict with the final exam, let your instructor know at least **two weeks in advance** so alternative arrangements can be made. For final exam conflicts, see below.

If you are unable to attend a midterm or final exam due to *illness* or other serious circumstances, you must provide valid medical or other supporting documentation to the 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. For further information please see the <u>Student</u> <u>Services</u> web site.

A student requiring academic accommodation due to illness should bring a <u>Student Medical</u> <u>Certificate</u> with them when visiting an off-campus medical facility and use a Record Release Form for visits to Student Health Services. Hard copies of both of these forms are available from your home Faculty Academic Counselling Service.

#### Failure to follow these rules may result in a grade of zero.

#### **Final exam conflicts**

Please see the <u>University's policy on final exam conflicts</u>. Here are the first two paragraphs:

A student who is scheduled to write **more than two examinations in any 23-hour period** may request alternative arrangements through the office of the dean of their faculty.

A student who is scheduled to write **two examinations concurrently** must notify the **Registrar** so that arrangements may be made for both examinations to be written in the Examination Conflict Room in a sequence established by the Registrar.

Please also let your **instructor** know about the conflict, and read the entire University policy.

### **Academic offences**

Scholastic offences are taken seriously and students are directed to read the <u>official policy</u>. Electronic devices (including cell phones and ipods) are not allowed at the exams and may be confiscated.

## **Accessibility Statement**

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 for any specific question regarding an accommodation.

### A note to all students from the office of the Dean of the Faculty of Science

You are responsible for ensuring that you have successfully completed all course prerequisites and that you have not taken an antirequisite course. Lack of prerequisites may not be used as the basis of appeal. If you are not eligible for a course, you may be removed from it at any time, and will receive no adjustment to your fees. These decisions cannot be appealed.

If you do not have the course prerequisites, and have not been granted a special permission to take the course by the department, it is in your best interest to drop the course well before the end of the add period. Your prompt attention to this matter will not only help protect your record, but will ensure that spaces become available for students who require this course for graduation.