

MATH 1613 COIN4: General Linear Algebra and Calculus for Business and Economics

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Syllabus

Course Overview

This course is designed to present ideas and application areas that are important to students of the management, life and social sciences. Specifically we develop our problem solving skills using linear equations, quadratic functions, matrices, linear programming, exponential and logarithmic models, use of basic derivatives and optimization.

Resources that will be helpful in the successful completion of this course include: worked through solutions by the instructor for each section covered, multimedia support files for a number of the sections, checkpoint questions and answers through the text, the on-line Web Assign tools, and a generous use of application problems and solutions to highlight appropriate use of the mathematical tools introduced.

The overall course objective is to provide a myriad of opportunities for students to see relevant connections between mathematics and multiple application areas and to develop an academic tool set that provides them with multiple mathematical strategies to employ in estimation of reasonable steps and possible answers, problem solving and reflection on their efforts.

Instructor

Welcome to the course! My name is Jim Pulsifer. For many years, my academic work at Acadia has been supported by the Department of Mathematics & Statistics, the School of Education, Acadia Institute for Teaching and Technology and Open Acadia. (teaching (undergrad and grad courses), writing, facilitating professional learning opportunities ...) My background also includes a role as Teacher, School Administrator and as a Technology Integration Consultant for the Nova Scotia Public School System..

In addition to truly enjoying my professional practice with students and colleagues, I have two adult children (and a grandson) who all bring joy to my life.

I have had the wonderful opportunity to offer this course a number of times on-line and on campus since its inception. Please feel welcome to stay in touch during the course to assist with any academic challenges you are facing.

0:00 / 1:30

Contact Information:

Department of Mathematics and Statistics
Acadia University
Wolfville, Nova Scotia
CANADA B4P 2R6

E-mail: jim.pulsifer@acadiau.ca

Course Materials

Textbook: Mathematical Applications for the Management, Life, and Social Sciences ... Harshbarger Reynolds ... 12th Edition (Student Edition 978-1-337-62534-0)

Web Assign is a key required resource for the course. This resource has a cost which can be bundled with the purchase of the textbook or with the ebook option. Please contact the Acadia University Book Store for specific information. Please see each Module Topic for the **associated Web Assignment** to assist with developing your skills .

Although you may have your own go-to sites for math support, please note I have placed specific Internet links inside the Modules of the course. Please also consider using a browser with **specific key words** for additional video resources.

Evaluation

The course has eight (8) assignments (including the [Introductory Assignment #0](#)) that are each of equal value. There are Web Assign assignments to complete during the course. There is a personal Mid Term Quiz (between Module 4 and 5). There is a final examination for this course.

Mid Term Quiz

1. you will be given a 'key term' from the text to teach to the professor (your key term will be selected from the end of a chapter covered to date) *[I will be pleased to email you your specific term once I have evaluated your Module 4 assignment for you] Please email me once your score is back in Assignment #4.*
2. you are to provide me with a clear definition of the term
3. you are to provide me with two(2) comments that answer the question "why does this term have importance in our work?"
4. you are to describe clearly to me two(2) realistic examples where it can be applied in business and/or economic settings. Create the situations and fully solve the associated mathematical problems.
5. you are to reflect on your work (any challenges) and provide me any final related comment as it relates to this quiz.

The quiz **must** be submitted electronically prior to beginning Module 5 and within a one (1) week window of receiving the key term. If not submitted by the 1 week date, an alternate 'key term' will be sent to you.

There are two grading schemes that will be calculated to determine your final mark in the course. Both calculations will automatically be done and the highest score awarded.

Assignments	25%	20%
Mid Term Quiz	10%	10%
Final Examination	50%	60%
Web Assign	15%	10%

The assignments are delivered to the instructor via assignment drop-boxes. Please remember to put your name, student number, course number, and assignment number on the assignment and keep a copy in the event the original is lost.

The last assignment should be received at least 4 weeks prior to the date you wish to write the exam. This will allow adequate processing time for the request, and for setting the exam.

Note files must be readable in Office or PDF formats.

Please note that you must pass the final examination to get credit for the course.

Course Schedule

Click to download the suggested schedule for this course: [MATH 1613 CIN4 - Suggested Schedule](#)

Print out this schedule and fill in your start date to use the recommended timeline to plan out when you will do readings and assignments. This is a tool to help you plan and time manage this course. If you get off-track, make sure to revisit your schedule and re-evaluate the dates you've set for yourself.

You have 6 months to complete this course. You may set your own schedule, but if you intend to complete the course in less than 3 months, you should let me know so that we can arrange a schedule.

Please do not leave all of your course work until a few weeks before your completion date. Although I will make every effort to accommodate your schedule within reason, I need time to effectively grade assignments and mark exams.

Quick Overview: Recommended Schedule

Week 1-3	Module 1
Week 4-5	Module 2
Week 6-8	Module 3
Week 9-10	Module 4 (Mid Term Quiz)
Week 11-12	Module 5
Week 13-14	Module 6
Week 15-16	Module 7

Exam

How to apply: Fill out the form 'Apply to write the Final Exam' link in the final module of your course.

Proctored at Acadia

- The final exam in an online course must be passed to successfully pass the course unless otherwise stated in the assessment section of the course syllabus. There are no rewrites or supplemental examinations at Acadia University.
- Examination requests must be received 14 days or 2 weeks prior to the date you wish to write your examination.
- Course requirements must be completed to the satisfaction of your instructor.
- Graduating Students Note: If you are graduating in Spring Convocation you must write by April 15th. If you are graduating in the Fall you

must write by September 15th.

Proctored at Another Location

If it isn't practical to take your exam at Acadia, off-campus exams can be written at another university or college. Arrangements for an examination may be made through the Registrar's Office or the Continuing Education office of most universities and colleges. If it is not possible to write your exam at an approved institution, please contact us for assistance.

- All fees associated with examinations written at other locations are your responsibility.
- Some courses may require specific software or internet accessibility at the off-campus examination location.

Student Handbook

You are responsible for becoming familiar with the contents of the Student Handbook. It contains important information about scheduling examinations (if applicable), applying for extensions, withdrawing from your course, ordering books, and computer and library services available to you. If you have questions about the policies outlined in the handbook (<https://courseware.acadiau.ca/openacadia/studenthandbook.html>), contact:

Open Acadia
21 University Avenue (Rhodes Hall)
Wolfville, NS B4P 2R6
Phone: 1-800-565-6568
Fax: 1-902-585-1068
Email: openacadia@acadiau.ca

Academic Integrity

Academic integrity demands responsible use of the work of other scholars. It is compromised by academic dishonesty such as cheating and plagiarism. A student who is uncertain whether or not a course of action might constitute cheating or plagiarism should seek in advance the advice of the instructor involved.

- Cheating is copying or the use of unauthorized aids or the intentional falsification or invention of information in any academic exercise
- Plagiarism is the act of presenting the ideas or words of another as one's own. Students are required to acknowledge and document the sources of ideas that they use in their written work.
- Self-plagiarism is also a form of plagiarism. It is the presentation of the same work in more than one course without the permission of the instructors involved.
- A student who knowingly helps another to commit an act of academic dishonesty is equally guilty.
- Penalties are levied in relation to the degree of the relevant infraction. They range from requiring the student to re-do the piece of work, through failure on that piece of work, to failure in the course, and to dismissal from the university.

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[◀ Course Introduction Video](#)

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