



**COURSE OUTLINE**

1. **Course:** MATH 211, Linear Methods I - Fall 2021

Lecture 01: MWF 15:00 - 15:50 - Online

Instructor	Email	Phone	Office	Hours
Dr Karoly Bezdek	kbezdek@ucalgary.ca	403 220-6919	MS 318	TBA

Lecture 02: MW 08:00 - 08:50 in ICT 114

Instructor	Email	Phone	Office	Hours
Dr. Carlo Maria Scandolo	carlomaria.scandolo@ucalgary.ca	TBA	MS 584	TBA

Lecture 03: MF 11:00 - 11:50 in ENG 03

Instructor	Email	Phone	Office	Hours
Dr Thomas Bitoun	thomas.bitoun@ucalgary.ca	403 220-3941	MS 374	By appointment

Lecture 04: MF 09:00 - 09:50 in ENG 224

Instructor	Email	Phone	Office	Hours
Dr. Carlo Maria Scandolo	carlomaria.scandolo@ucalgary.ca	TBA	MS 584	TBA

Lecture 05: WF 10:00 - 10:50 in ENE 123 and 10:00 - 10:50 in ENE 127

Instructor	Email	Phone	Office	Hours
Dr Claude Laflamme	math211@ucalgary.ca	403 220-3962	MS 572	TBA

Lecture 06: MF 14:00 - 14:50 in ICT 217

Instructor	Email	Phone	Office	Hours
Dr Thi Dinh	tdinh@ucalgary.ca	403 220-2214	MS 420	TBA

Lecture 07: MW 16:00 - 16:50 in ICT 114

Instructor	Email	Phone	Office	Hours
Dr Thomas Bitoun	thomas.bitoun@ucalgary.ca	403 220-3941	MS 374	By appointment

Lecture 08: MF 15:00 - 15:50 in ENG 03

Instructor	Email	Phone	Office	Hours
Dr John Saunders	TBA	TBA	TBA	TBA

Lecture 09: MF 15:00 - 15:50 in ENG 224

Instructor	Email	Phone	Office	Hours
Dr John Saunders	TBA	TBA	TBA	TBA

Lecture 10: WF 14:00 - 14:50 in ENE 123 and 14:00 - 14:50 in ENE 127

Instructor	Email	Phone	Office	Hours
Dr Thi Dinh	tdinh@ucalgary.ca	403 220-2214	MS 420	TBA

Lecture 11: MF 10:00 - 10:50 in ICT 217

Instructor	Email	Phone	Office	Hours
Dr Claude Laflamme	math211@ucalgary.ca	403 220-3962	MS 572	TBA

Lecture 12: WF 14:00 - 14:50 - Online

Instructor	Email	Phone	Office	Hours
Dr Claude Laflamme	math211@ucalgary.ca	403 220-3962	MS 572	TBA

**Coordinator(s)**

Name	Email	Phone	Office	Hours
Dr Claude Laflamme	math211@ucalgary.ca	403 220-3962	MS 572	TBA

**In Person Delivery Details:**

## Integrated Design Studio Based Learning

- These “active learning” sessions are largely dedicated toward completing specific group learning activities through the mobile application.
- These in-person sessions can also be used to seek assistance on any component of the course.
- There are 14 different scheduled sessions, each being held twice per week.
- The in-person sessions are moderated by teaching assistants and monitored by instructors.

## Re-Entry Protocol for Labs and Classrooms:

To limit the spread of COVID-19 on campus, the University of Calgary has implemented safety measures to ensure the campus is a safe and welcoming space for students, faculty and staff. The most current safety information for campus can be found [here](#). **Online Delivery Details:**

This course does not follow a scheduled meeting pattern.

This course has a registrar scheduled, asynchronous final exam. The writing time is 1.66 hours + 50% buffer time, but the exam can be written any time in a 24-hour window.

### 1. Two (optional) live lecture sessions, covering the same material:

- Session 1: MWF 3pm (instructor: Dr. Bezdek)
- Session 2: TR 10am (instructor: Dr. Dinh)

These optional live lectures will be recorded and can be viewed at any time, participation is not necessary.

### 2. Academic live online support:

- Session 1: (TBA)
- Session 2: (TBA)

These are online "office hours", moderated by teaching assistants, provide students an opportunity to synchronously ask questions related to the material.

### 3. Discussion Board on D2L

- Monitored 7 days week

The discussion board, monitored by teaching assistants and instructors, offers students an opportunity to asynchronously ask questions related to the material, and other students to contribute answers.

### 4. D2L course site

- Includes access to all material and online assessment.
- Includes weekly detailed and clear "roadmap" to assist student progress through the course.

### 5. Prerecorded problem demonstration videos

- Detailed video presentations of typical course exercises.

### 6. Email support for administrative matters

- [math211@ucalgary.ca](mailto:math211@ucalgary.ca)

This email is dedicated to administrative aspects of the course, including illness, SAS, time zones, and other admin inquiries.

### 7. Live course orientation support:

Access to instructor offering orientation for those students experiencing serious difficulties with the course. A personal appointment can be set by contacting [math211@ucalgary.ca](mailto:math211@ucalgary.ca)

## Course Site:

D2L: MATH 211 L01-(Fall 2021)-Linear Methods I

**Note:** Students must use their U of C account for all course correspondence.

## 2. Requisites:

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

**Prerequisite(s):**

Mathematics 30-1 or Mathematics 2 (offered by Continuing Education).

**Antirequisite(s):**

Credit for Mathematics 211 and 213 will not be allowed.

3. **Grading:**

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar.

In determining the overall grade in the course the following weights will be used:

Components(s)	Weighting (%)	Date
Mobile App Active Learning	10	Ongoing
Online Assignments (10)	15	Due dates listed in course schedule
Online Examination 1*	25	6pm October 4 to 6pm October 5
Online Examination 2*	25	6pm November 15 to 6pm November 16
Online Examination 3*	25	During registrar schedule period

1) Mobile App Active Learning

A mobile application (available through mobile phones or regular computer browsers) provides a summary of the material in short pages, each with a short right/wrong interactive randomized question to gauge student understanding of that material. Up to 10% will be awarded based on the proportion of successfully completed questions.

2) Online Assignments

There are 10 online assignments each with its own a due date, but available for at least 1 week after covering the material.

3) Online Examinations

Each examination is asynchronous and designed for 100 minutes, and an additional 50% time buffer is granted for a total of 150 minutes (2 ½ hours) to accommodate any technical or other online examination issues. Students can start anytime after 6pm of the opening day and submitted before 6pm of the closing day. Note that the exam is due at 6pm of the closing day and hence everyone must start before 3:30pm to benefit from the full 150 minutes allocation.

Additional time will be granted to SAS students, and other accommodation will be done on a case-by-case basis. All students need to contact the coordinator at least 14 days prior to the examination to arrange for accommodations.

Each piece of work (active learning, assignments and examinations) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
<b>Minimum % Required</b>	95 %	90 %	85 %	80%	76%	72 %	68 %	64%	60%	55 %	50 %

This course will have a final exam that will be scheduled by the Registrar. [The Final Examination Schedule](#) will be published by the Registrar's Office approximately one month after the start of the term. The final exam for this course will be designed to be completed within 1.66 hours.

The final exam will be administered using an on-line platform. Per section [G.5](#) of the online Academic Calendar, timed final exams administered using an on-line platform, such as D2L, will be available on the platform. Due to the scheduling of the final exams, the additional time will be added to **the end** of the registrar scheduled **synchronous** exam to support students. This way, your exam schedule accurately reflects the **start time** of the exam for any **synchronous** exams. E.g. If a **synchronous** exam is designed for 2 hours and the final exam is

scheduled from 9-11am in your student centre, the additional time will be added to the **end** time of the **synchronous** exam. This means that if the exam has a 1 hour buffer time, a synchronous exam would start at 9 am and finish at 12pm.

- the latest you should start an asynchronous exam would be 8 am in order to be able to submit the exam at 11am and have the full 3 hours.

The University of Calgary offers a [flexible grade option](https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade), Credit Granted (CG) to support student's breadth of learning and student wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: <https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade>

#### 4. Missed Components Of Term Work:

The university has suspended the requirement for students to provide evidence for absences. Please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online assessment on time (e.g. due to illness etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, one possible arrangement is that the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course. This option is at the discretion of the coordinator and may not be a viable option based on the design of this course.

#### 5. Scheduled Out-of-Class Activities:

The following out of class activities are scheduled for this course.

Activity	Location	Date and Time	Duration
Midterm - 1	Online	Monday, October 4, 2021 at 6:00 pm	2.5 Hours
Midterm - 2	Online	Monday, November 15, 2021 at 6:00 pm	2.5 Hours

**REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY.** If you have a conflict with the out-of-class-time-activity, please contact your course coordinator/instructor no later than **14 days prior** to the date of the out-of-class activity so that alternative arrangements may be made.

Examination 1	Web-Based	Monday 6pm October 4 to Tuesday 6pm October 5	100 minutes + 50% buffer = 2 1/2 hours
Examination 2	Web-Based	Monday 6pm November 15 to Tuesday 6pm November 16	100 minutes + 50% buffer = 2 1/2 hours

#### 6. Course Materials:

Suggested: A (free) open text in electronic form is available in your Lyryx account. It can be freely distributed and printed.

##### Mobile App, Assignments and Examinations

We will be using the Lyryx system for active learning, online assignment and examination purposes, offering formative online assessment in an effort to support student learning.

The student license is normally \$39.95+GST payable upon registration on the Lyryx system.

Lyryx is offering students access to their Lyryx online homework at no cost when using University computers, including in the MS 317, MS 515, MS 521, and MS 571 computer labs. Access to Lyryx online homework for no charge is also available at the TFDL, but currently only on Mac computers; access may be available sporadically in ES 160.

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC [ELearning](#) online website.

## 7. Examination Policy:

- You can do these exams from anywhere you find comfortable, free of distractions, but entirely on your own.
- You can use any of your course material: D2L course site, lecture notes, text, your own notes, and basic handheld calculator.
- However after accessing the examination, the Lyryx system will be in "examination mode" and you will be unable to access other Lyryx pages, including assignments. Attempting to do so, or login to Lyryx again from anywhere, may cancel your exam.
- Other than the Web browser you are using for the examination, no computer applications are to be open during the examination.
- Accessing any other websites (except D2L) or opening other computer applications is not permitted and constitutes academic misconduct as defined under the University of Calgary Academic Integrity Policy. Such activities will be monitored.

Students should also read the Calendar, [Section G](#), on Examinations.

## 8. Approved Mandatory And Optional Course Supplemental Fees:

There are no mandatory or optional course supplemental fees for this course.

## 9. Writing Across The Curriculum Statement:

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also Section [E.2](#) of the University Calendar.

## 10. Human Studies Statement:

Students will not participate as subjects or researchers in human studies.

See also [Section E.5](#) of the University Calendar.

## 11. Reappraisal Of Grades:

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. **Non-academic grounds are not relevant for grade reappraisals.** Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

- Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work form to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar
- Final Exam:** The student shall submit the request to Enrolment Services. See [Section I.3](#) of the University Calendar.

## 12. Other Important Information For Students:

- Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).
- SU Wellness Services:** For more information, see [www.ucalgary.ca/wellnesscentre](http://www.ucalgary.ca/wellnesscentre) or call [403-210-9355](tel:403-210-9355).
- Sexual Violence:** The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email ([svsa@ucalgary.ca](mailto:svsa@ucalgary.ca)) or phone at [403-220-2208](tel:403-220-2208). The complete University of Calgary policy on sexual violence can be viewed at (<https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Sexual->

[and-Gender-Based-Violence-Policy.pdf](#)

- d. **Misconduct:** Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional [Code of Conduct](#) and promote academic integrity in upholding the University of Calgary's reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor's consent; submitting or presenting work as if it were the student's own work; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; borrowing experimental values from others without the instructor's approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

[Student Handbook on Academic Integrity](#)  
Student Academic Misconduct [Policy](#) and [Procedure](#)  
[Research Integrity Policy](#)

Additional information is available on the [Student Success Centre Academic Integrity page](#)

- e. **Academic Accommodation Policy:**

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf>.

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, by filling out the [Request for Academic Accommodation Form](#) and sending it to Mark Bauer by email [bauerm@ucalgary.ca](mailto:bauerm@ucalgary.ca) preferably 10 business days before the due date of an assessment or scheduled absence.

- f. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see [Legal Services](#) website.
- g. **Student Union Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca). SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca). [Student Ombudsman](#), Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca).
- h. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.
- i. **Copyright of Course Materials:** All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

#### Course Outcomes:

- Recognize which techniques of linear algebra that can be useful in solving or provide information to some problems from various areas
- Construct a plan on how to approach these problems using the techniques of linear algebra
- Execute the proposed plan correctly from the viewpoint of computation and mathematics
- Interpret the resulting information in the context of the problem at hand

Electronically Approved - Sep 08 2021 10:44

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**Department Approval**

Electronically Approved - Sep 08 2021 16:48

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**Associate Dean's Approval**