

# MATH 200

## Fundamental Concepts of Algebra

### Section EC

### Winter 2022

This syllabus is subject to change and any changes will be posted in the Announcements section of your eConcordia portal.

**Disclaimer:** In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

## About the Course

### What is MATH 200?

MATH 200 is a course offered by the Department of Mathematics and Statistics. This course is intended to give students an introduction to the fundamental concepts of algebra.

#### NOTE:

- *Students who have received credit or exemption for a course at the level of MATH 201 or above may not take this course for credit.*
- *Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.*

## Instructor

### Georgeana Bobos-Kristof

E-mail: [math200@econcordia.com](mailto:math200@econcordia.com)

Include the following information in all your e-mail communication:

- Full name
- Concordia student ID number
- Course name and number pertaining to your inquiry

**Note:** Please e-mail your instructor if you have general inquiries, or if there is a delay in hearing back from your TA.

## Course Website

To access the course website, log in at [www.econcordia.com](http://www.econcordia.com) and find MATH 200 in your *My Courses* list. On your eConcordia homepage you will see a link called *Course Website*. Clicking on that link will take you to the page that contains the course material.

Your eConcordia account will be valid until the end of the term for which you are registered. Your account will give you access to the online course material (videos, self-assessments, Discussion Board, graded assessments, and additional resources) on the course website for the duration of the term.

## Course Content

The following fundamental concepts of algebra will be taught:

- Performing arithmetic operations with algebraic expressions
- Simplifying algebraic expressions
- Factoring algebraic expressions
- Solving linear and quadratic equations
- Solving linear inequalities
- Graphing linear equations in two variables
- Solving systems of linear equations in two variables
- Simplifying rational expressions
- Solving rational equations

## Course Material

The course content and the links to the assignments, midterm and the final examination are available on eConcordia: [www.econcordia.com](http://www.econcordia.com).

The course comprises 12 lessons which can all be found by clicking on the *Course Website* link on the eConcordia home page. Lesson 13 contains videos on remedial material and will not be covered on any graded assessment.

Each lesson contains:

- **Lecture videos:** The pre-recorded lecture videos for each topic of the course are meant to simulate a class lecture. There are also videos showing how to solve example problems. The lesson videos cannot be downloaded or viewed offline.

- **Self-assessment questionnaire:** The 10-question self-assessments are there for you to practice each lesson's content. These are not graded and can be attempted as often as necessary. Detailed solutions are provided for every question.
- **Assignments:** Each lesson concludes with an assignment. These assignments count towards your final grade. More details are provided in the **Assessments** section below.

## Textbook

There is no required textbook for this course. Additional resources may be posted on the eConcordia page throughout the term.

## Announcements

The Announcements section of the course website is our means of communicating important changes and updates to you on a regular basis. Please ensure that you keep up to date by reading the announcements on a weekly basis. The announcements are found in the centre of your eConcordia homepage. To receive announcements in your email inbox, click on **My Account** on your eConcordia homepage, select the box next to ***I would like to receive course announcements by email*** (below your personal information), and click **Update**.

## Assessments

### Evaluation Scheme

The final grade will be calculated using the HIGHER of Option A and Option B:

#### Option A

- Assignments 10%
- Midterm test 35%
- Final examination 55%

#### Option B

- Assignments 10%
- Midterm test 20%
- Final examination 70%

## Components

**NOTE:** It is the student's responsibility to take note of the due dates (and times) for assignments and the dates (and times) for the midterm test and the final examination.

## Assignments

There will be 12 assignments to complete through an online platform called **WeBWork**.

You will have, as a rule, two weeks to complete each assignment: it will open on the same day as its respective lesson and will close in two weeks (a shorter deadline for assignments 11 and 12)

The due dates of all assignments are listed in the **Agenda** at the end of this course outline.

There will be no accepted reason for missing an assignment (e.g. illness or computer issue). Please note, however, that the lowest out of the 12 grades will be dropped, so that only 11 out of the 12 assignments will count towards your final grade.

Instructions for logging into WeBWork and using it can be found on the Course Website.

## Midterm Test

The ONLINE midterm test will be held on **March 10**. It will be available on the Course Website from 9:00AM to 11:59PM (ET). You will have 75 minutes from your start time or until the midterm closes at 11:59PM (ET), whichever comes first.

The test will be based on the material from **Lessons 1 to 6**. You will need a calculator, pen & paper to work out the answers.

You should complete the midterm using an updated browser. Do not exit the window until you have answered all the questions and get your result.

**Note:** It is the Department's policy that tests missed for any reason cannot be made up. If you miss the midterm exam **because of illness (medical note required)**, the final exam will count for 85% of your final grade, and the assignments will count for the remaining 15%. In that case, the medical note or certificate must be sent to your instructor **as soon as possible**.

## Final Exam

**The final ONLINE examination will be two hours long and will cover all the material in the course. NOTE:** Students are responsible for finding out the date and time of the final exams once the schedule is posted by the Examinations Office. Conflicts or problems with the

scheduling of the final exam must be reported directly to the Examinations Office, not to your instructor.

Additional exam-specific details will be announced towards the end of the course.

*\*Students registered with Concordia's Access Centre for Students with Disabilities (ACSD) will have the duration of their midterm tests automatically adjusted.*

## Grades

### Number to letter grade conversion

Letter Grade	Percentage (%)	Letter Grade	Percentage (%)
A+	90 to 100	C	64 to 66
A	85 to 89	C-	60 to 63
A-	80 to 84	D+	57 to 59
B+	77 to 79	D	54 to 56
B	74 to 76	D-	50 to 53
B-	70 to 73	F	Less than 50
C+	67 to 69		

Your final letter grade for the course will be posted in your MyConcordia Portal at the end of the term.

## Communication and Extra Help

### Teaching Assistants

By Week 2, each student registered in this course will be assigned a Teaching Assistant (TA). Their contact information (email address) will be posted on your eConcordia homepage.

TAs will help you with your studies, especially with any math questions you have. TAs are not required to help you with technical issues.

Allow for a 24-hour response time during the week (Monday-Friday). TAs check their messages once over the 48-hour weekend period and are not available on statutory or university holidays

## Discussion Board

The Discussion Board is a versatile tool in an online course. All students can ask questions and all students can read and answer the questions. The TAs are responsible for answering your questions; the instructor will monitor and moderate discussions.

Here are some guidelines to follow:

- Do not post any personal Keep all postings pertinent to the course material.
- Questions about grades or questions of a personal nature must be addressed directly to your
- Ask or answer questions about the ideas of the course, the self-assessments, the textbook, examples from videos, or any calculator
- **Do not ask others to solve your assignment problems. (Asking for a hint or help getting started is )**
- Read the other postings to confirm that your question has not already been
- Always be respectful. Refrain from making offensive statements and derogatory
- Students who fail to respect these rules will be asked to leave the discussion. It is within our discretion and authority to remove or edit any posting at any

**Note:** The Discussion Board will be closed on the days of the midterms and final exam. If your question does not get answered or resolved, please e-mail your TA instead.

If you have a very specific issue (e.g. WeBWorK is not accepting your answer), please e-mail your TA and attach a screenshot of your work so that your TA can identify your problem.

## Announcements

The Announcements section of the course website is our means of communicating important changes and updates to you on a regular basis. Please keep up to date by reading the announcements on a weekly basis. The announcements are at the centre of your eConcordia homepage.

To receive announcements in your email inbox, click on *My Account* on your eConcordia homepage, select the box next to ***I would like to receive course announcements by email*** (below your personal information), and click **Update**.

## Math Help Center

The Department of Mathematics and Statistics has a free Math Help Centre for students enrolled in MATH 200 where you can ask a tutor for one-on-one help. The tutors at the Math Help Center are graduate students in mathematics who will help you with particular questions, explain things to you, and give you hints and insight. Its schedule of operation will be posted by Week 2 in the Department and on the Department webpage: <https://www.concordia.ca/artsci/math-stats/services/math-help-centre.html>

**The Math Help Center opens in the third week of the term.** The schedule and (if offered remotely) links to access the Zoom meetings can be found on the website of the Department of Mathematics and Statistics: <https://www.concordia.ca/artsci/math-stats/services/math-help-centre.html>

## Student Success Centre

Concordia University's Success Centre (<https://www.concordia.ca/students/success.html>) offers a variety of resources to students. Visit <https://www.concordia.ca/students/success/learning-support/math-help.html> to learn about available resources.

To book an appointment for one-on-one tutoring for MATH 200, you can go to:

<https://www.concordia.ca/students/success/learning-support/math-help.html#tutoring>

## Study Habits

To succeed in an online course, good study habits are essential. A learner who is motivated, self-disciplined, and has good organizational skills will be able to progress normally in the course. Here are some tips to help you succeed.

Set aside some specific days and times to work on the course. On average, a student should spend **six hours per lesson** in MATH 200. This time would be spent watching (and re-watching) the video lectures and examples, working on the self-assessment, and completing the assignment. Note that six hours is an estimate only and should be adjusted based on your ability to learn the material. More time will be needed to study for the midterm and final exam.

Complete your work early in the week so that you have time to e-mail your TA if you have any questions. **Do NOT wait until the last day before a deadline to complete an assessment.** Use the agenda to help you plan ahead.

**As you work through each lesson, write down all of the important formulas and procedures that you learn.** This will keep you alert while you watch the videos, and it will also make it easier for you to study for the exams.

## Technical Help and Support

### eConcordia Help Desk

If you experience any technical problems with the eConcordia website such as videos not loading or playing, please contact the **eConcordia HelpDesk**:

**E-mail:** [helpdesk@econcordia.com](mailto:helpdesk@econcordia.com)

**Phone:** (514) 848-8770, open Monday to Friday from 9:00 am to 5:00 pm Eastern time.

The necessary technical requirements to ensure the eConcordia course website works properly can be found here: [Technical Requirements](#). The recommended web browsers are Google Chrome on PC, and Safari and Google Chrome on Mac devices.

### WeBWork Technical Help

If you experience any technical problems with WeBWork please contact Concordia's WeBWork Teaching Assistants:

**E-mail:** [webwork.mathstat@concordia.ca](mailto:webwork.mathstat@concordia.ca)

The recommended web browsers for WeBWork are Google Chrome and Mozilla. Do not use Safari or Internet Explorer.

**NOTE:** The WeBWork Teaching Assistants will not answer questions about the mathematical content of your WeBWork assignments or other assessments. All such questions should be directed to your MATH 200 TA or instructor.



# Important Information

<b>Topic</b>	<b>Link</b>
Academic Integrity	<a href="#">Academic Integrity</a>
Educational Technology Guidelines	<a href="#">Concordia Educational Technology Guidelines for Faculty and Students (the "Guidelines")</a>
Access Centre for Students with Disabilities	<a href="#">ACSD</a>
Concordia Library Citation & Style Guides	<a href="#">How to cite...</a>
Course Communication Tools	<a href="#">Communication</a>
eConcordia Policies	<a href="#">Policies</a>
Final Exams Information	<a href="#">Final Exams</a>
Helpdesk/Support	<a href="#">FAQ</a>
Refunds	<a href="#">Refunds</a>
Technical Requirements	<a href="#">Technical Requirements</a>
Tips for Studying Online	<a href="#">Studying Tips</a>
Tips on how to reach online learning goals (learning modules)	<a href="#">How to Succeed @ eConcordia</a>

# Third Party Software/Website

Here is an excerpt on Concordia's policy on Educational software or services developed and owned by third parties, including those linked to textbooks, in-class surveys, lecture capture, virtual classrooms, course assignments and quizzes can be invaluable tools for the development and teaching of courses.

## **Third-Party software/websites that require personal information (name, email, student number, etc.):**

Students are advised that external software and/or websites will be used in the course and students may be asked to submit or consent to the submission of personal information (for example, name and email) to register for an online service. Students are responsible for reading and deciding whether or not to agree to any applicable terms of use. Use of this software and service is voluntary. Students who do not consent to the use the software or service should identify themselves to the course instructor as soon as possible, and in all cases before the DNE deadline, to discuss alternate modes of participation.

## **Third-party software/websites for work submission:**

Students are advised that external software and/or websites will be used in the course and students may be asked to submit or consent to the submission of their work to an online service. Students are responsible for reading and deciding whether or not to agree to any applicable terms of use. Use of this software and service is voluntary. Students who do not consent to the use the software or service should identify themselves to the course instructor as soon as possible to discuss alternate modes of participation that do not require them to give copyright or the right to use their work to a third party.

By using the external software or websites, students agree to provide and share their work and certain personal information (where applicable) with the website/software provider. Students are advised that the University cannot guarantee the protection of intellectual property rights or personal information provided to any website or software company. Intellectual property and personal information held in foreign jurisdictions are subject to the laws of such jurisdictions.

## **Third-party technology to record a course:**

Note that, as a part of this course, some or all of the lectures and/or other activities in this course may be recorded. Recordings will be focused on the instructor and will normally exclude students. It is possible, however, that your participation may be recorded. If you wish to ensure that your image is not recorded, speak to your instructor as soon as possible.

Also, please note that you may not share recordings of your classes and that the instructor will only share class recordings for the purpose of course delivery and development. Any other

sharing may be in violation of the law and applicable University policies, and may be subject to penalties.

## Tutorial Companies

Please note that private tutorial companies, some of whom aggressively promote their services on and off campus, are not authorized by Concordia University to distribute flyers on University premises and may not use Concordia University facilities to promote or provide their services.

Concordia University and its academic departments do not have any affiliation with these companies even though names such as JMSB, Concordia, or references to specific departments often appear in a visible way. If you are interested in the University's approved tutoring services, consult the services listed in your course outline or other services listed on the University's website.

# MATH 200 - Fundamental Concepts of Algebra Agenda Winter 2022

**All deadlines indicated are on the due date listed by 11:59 p.m. unless otherwise indicated.**

Week 1: January 6 - January 9	
	Read Course Outline
	Watch "INTRODUCTION VIDEO" on Course Website
	Lesson 13: Remedial Lessons (if necessary)
	Lesson 1: Fundamental Operations with Algebraic Expressions
<b>January 06</b>	<b>Classes begin, winter term</b>
<b>January 06</b>	<b>Discussion Board opens at 2 PM.</b>
Week 2: January 10 - January 16	
	Lesson 1: Fundamental Operations with Algebraic Expressions (Continued)
Week 3: January 17 - January 23	
	Lesson 2: Linear Equations
<b>January 19</b>	<b>Deadline to add winter-term courses</b>
<b>January 19</b>	<b>Deadline for withdrawal with tuition refund (DNE) from winter-term courses</b>
Week 4: January 24 - January 30	
	Lesson 3: Formulae and Linear Equations in Two Variables
<b>January 27</b>	<b><u>Assignment #1 due at 11:59 PM (due date may be subject to change in the first two weeks of the semester)</u></b>
Week 5: January 31 - February 6	
	Lesson 4: Graphing Linear Equations in Two Variables

February 03	<b>Assignment #2 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u></b>
<b>Week 6: February 7 - February 13</b>	
	Lesson 5: Linear Inequalities
February 10	<b>Assignment #3 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u></b>
<b>Week 7: February 14 - February 20</b>	
	Lesson 6: Systems of Linear Equations
February 17	<b>Assignment #4 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u></b>
<b>Week 8: February 21 - February 27</b>	
	Lesson 7: Percentages, Ratios and Other Problems
February 24	<b>Assignment #5 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u></b>
<b>Mid-Term Break: February 28 - March 6</b>	
February 28	<b>Start of mid-term break</b>
March 04	<b>President's Holiday - University closed</b>
March 06	<b>End of mid-term break</b>
<b>Week 9: March 7 - March 13</b>	
	Lesson 8: Factoring Algebraic Expressions
March 10	<b>Midterm Exam on Lessons 1-6 (9:00AM to 11:59PM)</b>
March 11	<b>Assignment #6 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u></b>
<b>Week 10: March 14 - March 20</b>	
	Lesson 9: Exponents and Radicals
March 17	<b>Assignment #7 due on at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u></b>
March 18	<b>Last day to register with the Access Centre for Students with Disabilities and receive exam accommodations for the final examination period.</b>
<b>Week 11: March 21 - March 27</b>	

	Lesson 10: Quadratic Equations
March 21	Deadline for academic withdrawal (DISC) from winter-term courses
March 24	Assignment #8 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u>
<b>Week 12: March 28 - April 3</b>	
	Lesson 11: Rational Expressions
March 31	Assignment #9 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u>
<b>Week 13: April 4 - April 10</b>	
	Lesson 12: Rational Equations
April 05	Assignment #10 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u>
April 06	Last day for instructor-scheduled tests or examinations
April 07	Assignment #11 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u>
<b>Week 14: April 11 - April 18</b>	
	Review course material
April 13	Assignment #12 due at 11:59 PM <u>(due date may be subject to change in the first two weeks of the semester)</u>
April 13	Last day of classes
April 15	University closed
April 16	University closed
April 17	University closed
<b>Examinations Period: April 19 - May 1</b>	
	Final Exam date and time is posted on your MyConcordia Portal