

**MATH 202**  
College Algebra  
*Fall 2019*

Instructor\*: \_\_\_\_\_

Office/Tel No.: \_\_\_\_\_

Office Hours: \_\_\_\_\_

\*Students should get the above information from their instructor during class time. The instructor is the person to contact should there be any questions about the course.

**Textbook:** *College Algebra and Trigonometry*, 2nd Edition, by J.R. Durbin (Custom copy).

**Prerequisite:** **MATH 201** or equivalent.

**Office Hours:** Your professor will announce her/his office hours during which she/he will be also available to give a reasonable amount of help. Note, however, that if you missed a class it is not reasonable to expect your professor to cover the missed material for you.

**Tutorials:** The material in this course requires a lot of practice. There is not enough class time to do all the examples and problems needed to learn the material thoroughly. The Department has therefore organized special tutorial sessions conducted every week to provide additional support to students outside the lecture room environment. These sessions are conducted by tutors who will help with solving problems on the topics learned in class that week, with particular emphasis on the material that students may have difficulties with in this course. Tutorials are an important resource to help you succeed in this course and students are strongly encouraged to participate and be active at these problem-solving sessions.

As an added incentive, **6 quizzes** will be given during the tutorials, and five bonus marks will be added to your final mark from the best five quizzes.

**Math Help Centre:** In addition to tutorials, a Math Help Centre staffed by graduate students is available. The schedule of its operation will be posted in the Department and on the Department webpage <https://www.concordia.ca/artsci/math-stats/services/math-help-centre.html>.

**WeBWorK:** Every student will be given access to an online system called **WeBWorK**. The system provides you with many exercises and practice problems. Students will use this system to do online assignments (see **Assignments** below). In addition, before the midterm test and before the final exam, a number of practice problems will be posted in WeBWorK to help you review the material of the course.

**Assignments:** Students are expected to submit assignments online using **WeBWorK**. Late assignments **will not** be accepted. Assignments contribute 10% to your final grade. Working regularly on the assignments is essential for success in this course. Students are also strongly encouraged to do as many problems as their time permits from the list of recommended problems included in this outline, as well as practice problems.

**Calculators:** Only calculators approved by the Department (with a sticker attached as a proof of approval), such as **Sharp EL 531** or the **Casio FX 300MS**, available at the Concordia Bookstore, are permitted for the class test and final examination. See <http://www.concordia.ca/artsci/math-stats/services.html#calculators> for details.

**Midterm Test:** There will be one **midterm test**, based on the material of weeks 1-6, which will contribute up to 25% to your final grade (see the **Grading Scheme** below). The test will be **common** for all sections of this course and will be held on **Sunday October 27, 2019, at 14:00 (i.e. 2:00 P.M.)**. It is the Department's policy that tests missed for any reason, including illness, cannot be made up. If you miss the midterm for any valid reason, e.g. illness, religious, etc., supported by appropriate documentation, the final exam will count for 90% of your final grade, and the assignments will count for the remaining 10%.

**Travel arrangements are not considered a valid reason for missing the test.**

**NOTE:** If you are taking another MATH 200 level course with a common midterm test at the same time as this one, you may choose which of the two tests you want to write. You must then inform the instructor of the other course that you will not write that test because of the time conflict between the two courses. In this case, the 90%-10% formula will apply to that other course.

**Final Exam:** The final examination will be three 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**.

**Grading Scheme:** The final grade will be based on the higher of (a) or (b) below:

- a) 10% for the assignments,  
20% for the midterm test,  
70% for the final exam.
- b) 10% for the assignments,  
10% for the midterm test,  
80% for the final exam.

Up to 5 bonus marks will be added from the quizzes (see **Tutorials**).

**IMPORTANT: PLEASE NOTE THAT THERE IS NO "100% FINAL EXAM" OPTION IN THIS COURSE.**

Active participation in classes and continuous work on the course material during the exam is important for success in this course. Years of experience have shown that students who do not attend class and believe they can keep up on their own do poorly on the final exam.

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1	8: A to E	Quadratic Equations	p. 72	# 24,35,46,53
	18: A,B,C	Division of Polynomials	p. 154	# 6,16,26,35
2	19: A,B,C	Factors and Real Zeros	p. 159	# 3,13,18,27,42
	20: A,B,C,D	Graphs of Polynomials	p. 169	# 22,32,34
3	21: A,B,C,D,E,F	More about Real Zeros of Polynomials	p. 178	# 3,6,12,14,27,28,34
4	6: A,B,C	Rational Expressions	p. 49	# 43,44,59,60
	22: A,B	Graphs of Rational Functions	p. 185	# 1,4,6,14
5	22: C	Graphs of Rational Functions (cont'd)	p. 185	# 16,22,26,29
	46: A,B	Complex Numbers	p. 353	# 22,26,34
6	46: C,D	Complex Numbers (cont'd)	p. 353	# 46,60,64,75
	47: A,B,C,D	Trig Form, de Moivre's Theorem	p. 360	# 2,10,12,21,26,28,38
7	48: A to C	Complex Zeros of Polynomials	p. 366	# 2,6,7,13,18,26,27
8	<b>TEST – covering up to week 6 included.</b>			
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9	59: A	Arithmetic Sequences and Series	p. 442	# 11,12,13,14
	59: B	Summation Convention	p. 442	# 22,26,28
10	60: A,B,C,D	Geometric Sequences and Series	p. 449	# 9,14,30,40
11	61: A,B,C	The Binomial Theorem	p. 455	# 5,8,18,22,30
12	62: A,B	Permutations	p. 462	# 13,16,17,18
	63: A,B	Combinations	p. 466	# 14,17,20,21
13	<b>Review for final exam which covers the entire course</b>			

### Academic Integrity and the Academic Code of Conduct

This course is governed by Concordia University's policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: [concordia.ca/students/academic-integrity](http://concordia.ca/students/academic-integrity)." [Undergraduate Calendar, Sec 17.10.2]