Department of Mathematics & Statistics Concordia University

	MATH 202 College Algebra <i>Winter 2020</i>				
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 o 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 he examples and problems needed to learn the material thoroughly. The Department has herefore organized special tutorial sessions conducted every week to provide additional support to students outside the lecture room environment. These sessions are conducted by utors 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. Futorials 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, several quizzes will be given during the tutorials, and up to five ponus marks will be added to your final mark from the 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 lo online assignments (see Assignments below). In addition, before the midterm test and pefore the final exam, a number of practice problems will be posted in WeBWorK to help you eview the material of the course.				
Assignments:	tudents are expected to submit assignments online using WeBWorK . Late assignments will ot be accepted. Assignments contribute 10% to your final grade. Working regularly on the ssignments is essential for success in this course. Students are also strongly encouraged to o as many problems as their time permits from the list of recommended problems included a 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 March 8, 2020, at 10:00 (i.e. 10:00 A.M.)
Note that the time changes that day. 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 <u>at the</u> <u>same time as this one</u>, 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.

CONTENTS

Week	Sections			Recommended Problems	
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	TEST – covering up to week 6 included.				
	58: A,B,C	Mathematical Induction	p. 437	# 7,14,16,18,21	
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	Review for final exam which covers the entire course				

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: <u>concordia.ca/students/academic-integrity</u>." [Undergraduate Calendar, Sec 17.10.2]