Math 1011 Q: Introductory College Algebra and Mathematical Modeling
Fall 2020 Remote

Instructor: Paul Crilly, Ph.D. Email: crillypb@gmail.com, or paul@paulcrilly.onmicrosoft.com, Phone: 860-501-5470.

Meeting times: MW 5-6:45 PM.

Office hours: I will leave the Teams channel open and be available for questions for at least 30 minutes after the class is over. If necessary you can make an appointment and we can meet privately via phone or Teams.

Textbook: *Intermediate Algebra, 7th edition*, by K. Elayn Martin Gay. Should be available online (eg. Amazon) or at UConn's bookstore.

Remote learning: This is the first time I have taught this class remotely using Teams. Remote learning and Teams have their own challenges for both the instructor and the student. I as the instructor will be as gracious as possible should unexpected events, glitches, hiccups, etc. occur. I expect students to reciprocate. My intent is for all of you to learn Algebra, and I will do everything possible to maximize your learning of the course content. If you are having difficulty in completing a HW problem, please ask the instructor to go over that problem in class. There is a good chance that others are having the same difficulty.

Please be mindful of academic integrity. That means no collaboration on quizzes or exams, and do not use calculators. See below.

Other requirements: Please submit all quizzes in pdf form. I am in the process of setting up a drop box on Teams or Uconn Huskey. Please make sure your submissions are clear and readable.

Grading policy: Regular quizzes: 90%, and Final exam: 10%. Grade conversion is as follows: A: 93%-100%, A-: 90%-92%, B+: 87%-89%, B: 83%-86%, B-: 80%-82%, C+: 77%-79%, C: 73%-76%, C-: 70%-72%, D+: 67%-69%, D: 63%-66%, D-: 60%-62%, F:0-59%.

Final exam: This class has a mandatory final exam. It is UConn policy that students are required to be available for the final exam and/or complete any assessment during the stated time. If you have a conflict with the time, you must obtain official permission to schedule a make-up exam with the Office of Student Support and Advocacy (OSSA). If permission is granted, OSSA will notify the instructor. Please note that vacations, previously purchased tickets, or reservations, graduations, social events, misreading the assessment schedule, etc. are not viable options for rescheduling the final exam.

Quiz policy: A 10 minute quiz will generally be given once per week, and may be unannounced. Submissions should be in in pdf form in clear legible form and electronically turned in by the due time. Note electronic submission means there will be a time stamp. Suggestion: If you use your camera to take a picture of your quiz, then be sure it is readable.

Quiz submission: Until I get a dropbox set up, please submit your quizzes in .pdf form to my email: paul@paulcrilly.onmicrosoft.com.

There will be at least 14 quizzes administered during the semester in which at least three of the lowest scores will be dropped and thus will not be counted toward the student's final grade. The policy of dropping the three lowest scores is intended to cover the cases when the student is ill, has personal emergencies or for whatever other reason they cannot satisfactory complete a quiz. ***Thus there will be no makeup quizzes. Quizzes without the student's name will not be graded and the student will be given a grade of 0 for that assignment.*** When doing the quiz

problems, the student should show the appropriate work in solving the problem. Failure to do so may result in zero credit for that problem. ***Late quizzes may not be accepted, or at least be heavily penalized.***

Homework policy: While HW will ***not*** be collected, the assigned homework is a significant means to learn the course material and achieve success on the quizzes and final exam. You will not learn Algebra if you do not do the HW problems and/or if you use a calculator to solve the problem. ***There is no substitute for drill.*** At his point in your math career, the process is as important as the final answer. Collaboration on homework assignments is strongly encouraged. There is a good chance that quiz problems may be taken from the assigned HW problems.

As the class/hw spreadsheet states the HW problems are every other odd problem (i.e. 1,5, 9, 13, 17…), however, you may want to do more than just the assigned work. Note, the answers are given at the end of the book.

Expectations: You are expected to attend all required classes, arrive on time and are responsible for everything that happens in class. This includes quizzes, projects and any course announcements. If you miss a class, you are expected to find out what happened from a classmate. You are also expected to work at least four hours per week outside class.

Academic honesty: The normal short quizzes and the final exam are an individual effort. Collaboration or other unauthorized sharing of information on these will be considered cheating and the student will be subject to the academic dishonesty policies of UConn. Note however, collaboration on HW is allowed and encouraged.

There may times when the instructor will give in-class assignments and may allow for collaboration between students.

Calculator policy: Except as specified by the instructor, ***calculators are not allowed during quizzes or exams***. All calculations required in these instances can be reasonably done by hand. You are strongly encouraged to not use calculators for the HW assignments, although in some cases, you may want to check your HW answers using one. ***You are expected to know your times/division tables for factors up to 12.*** Note all the odd numbered problems have the answers in back of the book.

Course progress: Expect the course to cover 2-5 sections/week. The accompanying spread-sheet schedule outlines the expected course progress. We will try to keep to this schedule, but there may be times when the instructor will deviate from the schedule.

General description of Math 1011Q: Math 1011Q is designed to serve as preparation for all other Q courses offered at UConn. It emphases two components, the mastery of each is important for success in any course employing mathematics. The first is made up of the collection of fundamental algebraic concepts and their manipulations. Most of this material is taught in high schools and community colleges under the name of Intermediate Algebra or Algebra II. The second component consists of using these algebraic concepts for solving problems from other disciplines. This basically is applications of algebra and is often called mathematical modeling. Math 1011Q is the permanent replacement for Math 101. Math 1011Q earns students 3Q credits which counts toward graduation.

Who should take Math 1011Q: All students whose high school algebra needs reinforcement. In particular, students who did not take a course in Intermediate Algebra prior to enrollment at UConn, or had taken such a course and obtained a grade of C or lower, or had not taken a course in mathematics for a number of years. This course should help you in all your other Q courses at UConn.

Week	Date	Topic	Reading	***Homework:*** At the end of each section, do every other odd problem in the ***Exercise Set***. For example, at the end of Section 1.2, on page 16, you would do problems: 1, 5, 9... Answers to the odd problems are given in the back of book.
1	31-Aug	Real numbers and algebraic expressions	1.1, 1.2	
2	2-Sep	Order of operations	1.3	
3	9-Sep	Properties of real numbers, algebraic expressions	1.4, Review	
4	14-Sep		review	
5	16-Sep	Equations, inequalities, and problem solv.	2.1,2.2,2.3	
6	21-Sep	Linear inequalities and absolute values	2.4, 2.6, review	
7	23-Sep		review	
8	28-Sep	Graphs, and functions	3.1, 3.2	
9	30-Sep	Graphing functinos	3.3	
10	5-Oct	Slope and equations of lines	3.4, 3.5	
11	7-Oct	Systems of equations	4.1, 4.2	
12	12-Oct	No class		
13	14-Oct	Review		
14	19-Oct	Exponents and scientific notation	5.1, 5.2	
15	21-Oct	Functions	5.3	
16	26-Oct	Functions and multiplying polynomials	5.4	
17	28-Oct	Greatest common factor	5.5	
18	2-Nov	Factoring polynomials	5.6	
19	4-Nov	Factoring continued		
20	9-Nov	Rational expressions, rational exponents,	6.1, 6.2, 6.4	
21	11-Nov	**No class**		
22	16-Nov	Radical expressions	7.1, 7.6	
23	23-Nov to 25-Nov	No classes - Thanksgiving		
24	30-Nov	Quadratic equations, exponentials and	8.2, 9.3	
25	2-Dec	logrithmic functions	9.5, 9.6, 9.7	
26	7-Dec	Review and optional topics		
29		Final		

Note: (1) You are also responsible for the end of chapter ***vocabulary check***, (2) the answers to the odd problems are given in the back of the book, and (3) you are encouraged to do additional problems in the ***Exercise Set*** and End of Chapter ***Review problems***.