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## Course Syllabus

- **COURSE NUMBER:** MATH211L
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- **COURSE TITLE/MODALITY:** College Algebra (Online)
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- **CREDIT HOURS:** 4
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- **SEMESTER:** Fall 2023
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- **FACULTY NAME:** Professor Fran Seigle
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- **E-MAIL ADDRESS:** [fseigle@ccsnh.edu](mailto:fseigle@ccsnh.edu) Please be aware that College policy requires that all students and teachers use the email account provided by the College. All emails from me and the College will be to that account and you are responsible for checking it. If you are new to the College, follow the instructions that were given to you when you registered for this class.
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- **OFFICE HOURS:** All office hours this term will be through Zoom or phone or email. Please let me know right away if you want help and we'll set up a meeting. The sooner you get help, the sooner you will succeed!
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- **PRE-REQUISITES:** LMAT1420 or MATH1420L (or equivalent) with a grade of C or better, or competence demonstrated on math placement exam.
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- **COURSE DESCRIPTION:** This is a comprehensive course that includes the graphs and solutions of linear, radical, and quadratic equations; graphs and solutions of linear, compound, absolute value, and nonlinear inequalities; systems of equations in 2 and 3 variables; rational exponents; an introduction to trigonometry. ***A grade of C or better must be achieved in this class to use it as a prerequisite for a subsequent class here at the College.***
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- **TEXT/INSTRUCTIONAL MATERIALS AND EQUIPMENT REQUIRED:** Online access to Pearson's MyLab is REQUIRED.  
You can purchase access to MyLab by opening the Access Pearson tab in Canvas and following the instructions given there or from the College's online bookstore..
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- **GRADING:**

**Tests and Quizzes:** Tests and quizzes are given as indicated on the schedule, covering all material from the indicated chapters. You are allowed 2 attempts on every quiz or test. Tests and quizzes not completed by the due date may be accessed and completed with a 10% grade deduction for late work. A grade of 0 will be entered for any missing assignments.

***If you are not doing well on quizzes or tests, I will expect you to take steps to improve (such as meeting with a tutor, using the resources in the program, meeting with me via Zoom, etc.).***

**Homework:** Your online program has numerous problems. You need to budget your time accordingly. It is very important that you **read** the sections online and use the media library in the program to help explain topics. Be sure to contact me right away if you need help! Homework not completed by the due date may be accessed and completed with a 10% grade deduction for late work. A grade of 0 will be entered for any missing assignments.

***Keep in mind that this may not be enough to give you an understanding. This is only a beginning! Homework alone will not provide adequate learning; you must do additional study and review if you wish to be successful in this class! Doing the homework is only the beginning of the learning process!***

The following scale will determine your grade for the course:

Tests:	40%
Quizzes:	20%
Homework:	40%

Grading Scale:

A	93-100	B	83-86	C	73-76	D	63-66
A-	90-92	B-	80-82	C-	70-72	D-	60-62
B+	87-89	C+	77-79	D+	67-69	F	0-59

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- **COURSE OUTCOMES/COMPETENCIES:**

**Course competencies:** At the conclusion of this course, the student will be able to:

- Solve complex linear equations
- Use integral exponents and scientific notation
- Evaluate and graph linear functions using multiple methods
- Find the equation of a line
- Graph the solution of inequalities in 2 variables
- Solve systems of equations in 2 and 3 variables algebraically
- Solve compound and absolute value inequalities
- Perform basic operations on polynomial expressions (including long division)
- Factor complex polynomial expressions, including the difference of two cubes
- Find the domain of rational expressions
- Perform operations on rational expressions
- Simplify complex algebraic rational expressions
- Solve problems containing rational functions
- Solve problems containing rational exponents
- Simplify and perform multiple operations on radical expressions, including rationalizing the numerator or denominator
- Solve problems containing complex numbers
- Solve radical equations
- Solve quadratic equations by formula, factoring, or completing the square
- Graph quadratic functions using vertical and horizontal shifts
- Use the basic three trigonometric functions to solve problems involving right triangles

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**Diversity, Equity, and Inclusion Statement**

The content of this course is designed to challenge your viewpoints and perspective as part of your learning experience. It is my intent that students from all backgrounds and perspectives are well-served by this course. Students' learning needs will be addressed both in and out of class, and the diversity of students will benefit the class and will be considered a resource and strength. Materials and activities presented in class will respect diversity including gender identity, sexuality, disability, age, socioeconomic status, ethnicity, race, nationality, religion, and culture.

- Discuss privately with me if you feel your success in the class is being impacted by experiences outside of class. I am always open to listening to students' experiences and want to find acceptable ways to process and address the issue.
- If you feel that something offensive occurred regarding DEI topics in class (by anyone) that made you feel uncomfortable, please let me know.
- Please make me aware if you have a name and/or set of pronouns that are different from those appearing on your official records.
- I encourage you to seek out other resources, such as an academic advisor or another trusted faculty member, if you feel more comfortable addressing issues with these individuals. [Anonymous feedback can be submitted here.](#)

It is my hope that this course meets your every expectation as a challenging, engaging, and respectful learning experience. If you find this not to be the case, I would welcome the opportunity to address your concerns. This is not only a courtesy; it is a matter of process and procedure. Should we fail to arrive at a mutually satisfactory understanding, you should take the matter to my immediate supervisor, Professor Matt Simon at [msimon@ccsnh.edu](mailto:msimon@ccsnh.edu)

- COURSE SCHEDULE/ADDITIONAL INFORMATION:

## **15-WEEK FALL ON-LINE COLLEGE ALGEBRA SCHEDULE**

### **SUMMARY OF ASSIGNMENTS AND DUE DATES**

<i>Sections Covered</i>	<i>Due Date</i>
Orientation 1.1 – 1.6 Quiz 1	9/6/23
1.7, 2.1 – 2.4 Quiz 2	9/13/23
2.5 Quiz 3 <b>Test 1</b>	9/20/23
3.1 – 3.3, 4.1 Quiz 4	9/27/23
4.2 – 4.4 Quiz 5	10/4/23
<b>Test 2</b> 5.1 – 5.3 Quiz 6	10/11/23
5.4 – 5.7 Quiz 7	10/18/23
6.1 – 6.4 Quiz 8	10/25/23
6.6 – 6.8 Quiz 9	11/1/23
<b>Test 3</b> 7.1 – 7.2 Quiz 10	11/8/23
7.3 – 7.6 Quiz 11	11/15/23
7.7 Trig videos in Canvas Quiz 12	11/22/23
8.1 – 8.4	11/29/23
<b>Test 4</b>	12/6/23
<b>Final Exam</b>	12/13/23