

# LAKES REGION COMMUNITY COLLEGE

379 Belmont Road  
Laconia, NH 03246  
(603) 524-3207

## COURSE OUTLINE/SYLLABUS SHEET

**COURSE NO:** MATH142L

**COURSE TITLE:** Essentials of Algebra

**CREDIT HOURS:** 3

**SEMESTER:** Spring 2023

**INSTRUCTOR NAME:** (Professor) Julie Morin

**E-MAIL ADDRESS:** [jmorin@ccsnh.edu](mailto:jmorin@ccsnh.edu)

**OFFICE LOCATION:** Turner Building 208a, (at the back of 208)

**CONFERENCE HOURS:** Mon. 10:30-12:30; Wed. 4:00-5:00 & Thurs 10:30-12:30 (via Zoom on Thursday. Sometimes additional time or one-on-one assistance is needed. The instructor is normally available during the conference hours listed above-or you may make an appointment with the instructor for other times.

**PREREQUISITES:** LMAT061L (or equivalent), or competence demonstrated on math placement exam.

**COURSE DESCRIPTION:** This course includes a study of linear equations and their graphs, linear inequalities, an introduction to functions and their graphs, absolute value equations and inequalities, systems of equations in 2 and 3 variables, operations with polynomials, rational expressions, rational exponents, and an introduction to solving quadratic equations. Also included is basic competency on the T183 graphing calculator. *A grade of C or better must be achieved in this class to use it as a prerequisite for a subsequent class.*

### TEXT/INSTRUCTIONAL MATERIALS:

Access to Lumen OHM required. Scientific calculator required.

**Text:** Beginning Algebra by Lumen Learning. Access code must be purchased through LRCC bookstore. Maintaining access to Lumen OHM is the student's responsibility. Temporary free access is available for 14 days; students must convert to permanent access before the 14 days expires. Students are responsible for resolving technical issues with Lumen Support, [support@lumenlearning.com](mailto:support@lumenlearning.com).

**GRADING:** The following criteria will determine your grade for the course:

Weekly Engagement Assignments	10%
Homework:	15%
Weekly Review Quizzes:	15%
Unit Exams:	45%
Final Exam:	15%

Each of these categories is described below. You are responsible to be aware of this information at all times in the course. All assignments are accessed through the links in weekly Canvas modules. *A grade of C or better must be achieved in this class to use it as a pre-requisite for a subsequent class.*

**Weekly Engagement Assignments** will be part of each weekly Canvas Module. These assignments are designed to help students successfully participate in the course or the weekly module. **No make-up assignments will be given as weekly engagement is based on consistent and timely participation. One low grade will be dropped in this category.**

**Homework** - Students are expected to complete the assignments according to the due dates shown in Canvas. The homework is set up so that students can attempt each problem multiple times in order to demonstrate mastery. You have unlimited attempts on these homework problems up until the due dates. **One low grade will be dropped in this category.**

**Weekly Review Quizzes** will be given and two attempts are allowed on each quiz. The higher grade is the one that will be counted in the final course grade. **One low grade will be dropped in this category.**

**There are 3 Unit Exams** that cover multiple modules and **a comprehensive Final Exam.** Students are expected to complete exams by due dates. One attempt is allowed on each exam. All exam grades are included in the final course grade.

**Late Work Policy:** Weekly completion of assignments is critical to student success. Occasionally, a situation may arise that requires an exception. Each student has been given 5 Late Passes within Lumen OHM. A Late Pass enables access to an assignment past the due date. Late work will only be accepted for two weeks past the due date; after that time has passed a 0 will be entered in the gradebook.

Final course grades are assigned on the following basis:

	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	< 60				

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**NEED FOR ASSISTANCE:** Each student is assumed to be earnestly working to the best of his or her ability in the course. **It is the student's responsibility to be aware of their progress and initiate a request for help.** The instructor is normally available during the conference hours listed above-or you may make an appointment with the instructor for other times. Free tutoring is available for students enrolled in courses at LRCC. Students needing tutoring services should email Kate Dockham, [kdockham@ccsnh.edu](mailto:kdockham@ccsnh.edu) to request a tutor.

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**ATTENDANCE POLICY:** It is my expectation that you will complete work each week according to the schedule posted in Canvas. If an absence is unavoidable, contact me as soon as you possibly can via phone, email, or at an office hour. I will do my best to help you determine how best to stay on track in the course.

**Extended absence may result in removal from the course.** If you miss class for 2 consecutive weeks and do not contact me within that 2-week timeframe I will notify our campus counselor. If after 2 weeks you do not contact me, I will remove you from the course and record a grade of AF (Academic Failure).

### **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](#).

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**COURSE OUTCOMES/COMPETENCIES:** At the conclusion of this course, the student will be able to:

- \* Solve verbal problems involving linear equations
- \* Solve absolute value equations
- \* Solve compound inequalities
- \* Understand function notation
- \* Perform basic operations on functions
- \* Evaluate and graph linear functions
- \* Find the slope of a line
- \* Find the equation of a line given 2 points or the slope and 1 point
- \* Graph the solution of linear inequalities in 2 variables
- \* Solve systems of equations in 2 and 3 variables algebraically
- \* Perform basic operations on polynomial expressions (including division)
- \* Factor polynomial expressions
- \* Find the domain of algebraic fractions
- \* Perform basic operations on algebraic fractions
- \* Simplify algebraic fractions
- \* Solve equations containing algebraic fractions
- \* Solve variation problems
- \* Use the metric system appropriately

## Essentials of Algebra, Proposed Schedule Spring 2023

Date	Topics	Homework Assignments/Assessments
<b>Week 1</b> 1/17-1/23	Course Introduction Module 0: Review	Homework: OHM Student Assignment Homework: Module 0 Quiz: Module 0
<b>Week 2</b> 1/24-1/30	Module 1 – Part 1 Solving Linear Equations	Homework: Module 1-Part 1 Quiz: Module 1-Part 1
<b>Week 3</b> 1/31-2/6	Module 1 – Part 2 Rearranging Literal Equations, Solving Linear Inequalities, Problem Solving	Homework: Module 1-Part 2 Quiz: Module 1-Part 2
<b>Week 4</b> 2/7-2/13	Unit 1 Exam (Modules 0-1)  Module 2 – Part 1 Graphing Linear Equations	Test/Quiz: Unit 1 Exam  Homework: Module 2-Part 1 Quiz: Module 2-Part 1
<b>Week 5</b> 2/14-2/20	Module 2-Part 2 Slope, Slope-Intercept Form of a Line, Writing Equations of Lines	Homework: Module 2-Part 2 Quiz: Module 2-Part 2
<b>Week 6</b> 2/21-2/27	Module 2-Part 3 Graphing linear inequalities	Homework: Module 2-Part 3 Quiz: Module 2-Part 3
<b>Week 7</b> 2/28-3/6	Module 3-Part 1 Systems of equations and inequalities	Homework: Module 3-Part 1 Quiz: Module 3-Part 1
<b>Week 8</b> 3/7-3/20	Module 3-Part 2 – Review graphing lines, inequalities, and systems Unit 2 Exam (Modules 2-3)	Test/Quiz: Unit 2 Exam
<b>3/13-3/19</b>	<b>SPRING BREAK</b>	
<b>Week 9</b> 3/21-3/27	Module 4 - Exponents	Homework: Module 4 Quiz: Module 4
<b>Week 10</b> 3/28-4/3	Module 5 – Polynomials	Homework: Module 5 Quiz: Module 5
<b>Week 11</b> 4/4-4/10	Module 6 – Part 1 Factoring	Homework: Module 6- Part 1 Quiz: Module 6 – Part 1
<b>Week 12</b> 4/11-4/17	Module 6 – Part 2 Factoring Continued	Homework: Module 6- Part 2 Quiz: Module 6 – Part 2
<b>Week 13</b> 4/18-4/24	Module 7 – Rational Expressions and Equations	Homework: Module 7 Quiz: Module 7
<b>Week 14</b> 4/25-5/1	Unit 3 Exam (Modules 4 – 7)	
<b>Week 15</b> 5/2-5/5	Final Exam	Test/Quiz: Unit 3 Exam

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 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 Program Coordinator, Matthew Simon, [msimon@ccsnh.edu](mailto:msimon@ccsnh.edu).