Course Syllabus

- **COURSE NUMBER:** MATH142L

- **COURSE TITLE/MODALITY:** Essentials of Algebra/Online

- **CREDIT HOURS:** 3

- **SEMESTER:** Spring 2024

- **FACULTY NAME:** Professor Julie Morin

- **E-MAIL ADDRESS:** jmorin@ccsnh.edu

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

- **OFFICE HOURS:** Tues & Thurs. 10:30-12:30. 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.

- **PRE-REQUISITES:** MATH061L (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 AND EQUIPMENT REQUIRED: Access to Lumen OHM, a scientific calculator, and technology (laptop or computer) to effectively use OHM. Each are described below:

  - OHM, Beginning Algebra from Lumen Learning. You are required to purchase an access code which is only available from our campus bookstore. Temporary free access is available for 14 days. See Canvas course site for access code details.
  - A **scientific** calculator is required; (TI30XII is an affordable easy to use option); you may use an online scientific calculator like Desmos
  - While Canvas and OHM are available on handheld devices, students are expected to have reliable access to a computer with high-speed internet access to complete course work. Lumen OHM is optimized for the latest and second latest version of the major browsers.
  - For technical support with Lumen email support@lumenlearning.com for Canvas or LRCC accounts email LRCCITSupport@ccsnh.edu

This online course has weekly due dates; see schedule on last page as well as in weekly Canvas modules.

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. Please read information below and reach out to instructor if you need clarification. All assignments are accessed through the links in weekly Canvas modules.

Weekly Engagement Assignments are included in most weekly modules. These assignments are designed to help students participate and succeed in the course. **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 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.

Attendance/Participation 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 or email. 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 who may reach out to you. If after 2 weeks you do not contact me, I will remove you from the course and record a grade of AF (Academic Failure). Note that an AF may affect financial aid. Therefore, it is critical for you to maintain communication with the instructor so that if you encounter difficulties, I can help you to make an informed decision regarding withdrawal or participation.

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				

NEED FOR ASSISTANCE: 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 request 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 Paula Kochien, pkochien@ccsnh.edu to request a tutor.

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

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, Matthew Simon at msimon@ccsnh.edu.

Essentials of Algebra, Proposed Schedule Spring 2024

Canvas Weekly Modules	Topics	Homework Assignments/Assessments
Week 1 1/16-1/19	Course Introduction	Homework: Complete Getting Starting Modu Homework: OHM Student Assignment
Week 2 1/20-1/26	Module 0: Review	Homework: Module 0 Quiz: Module 0
Week 3 1/27-2/2	Module 1 – Part 1 Solving Linear Equations	Homework: Module 1-Part 1 Quiz: Module 1-Part 1
Week 4 2/3-2/9	Module 1 – Part 2 Rearranging Literal Equations, Solving Linear Inequalities, Problem Solving	Homework: Module 1-Part 2 Quiz: Module 1-Part 2
Week 5 2/10-2/16	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
Week 6 2/17-2/23	Module 2-Part 2 Slope, Slope-Intercept Form of a Line, Writing Equations of Lines Module 2-Part 3 Graphing linear inequalities	Homework: Module 2-Part 2 Quiz: Module 2-Part 2 Homework: Module 2-Part 3 Quiz: Module 2-Part 3
Week 7 2/24-3/1	Module 3-Part 1 Systems of equations and inequalities	Homework: Module 3-Part 1 Quiz: Module 3-Part 1
Week 8 3/2-3/8	Module 3-Part 2 – Review graphing lines, inequalities, and systems Unit 2 Exam (Modules 2-3)	Test/Quiz: Unit 2 Exam
3/11-3/15	SPRING BREAK	
Week 9 **3/16-3/22**	Module 4 - Exponents	Homework: Module 4 Quiz: Module 4
Week 10 3/23-3/29	Module 5 – Polynomials	Homework: Module 5 Quiz: Module 5
Week 11 3/30-4/5	Module 6 – Part 1 Factoring	Homework: Module 6- Part 1 Quiz: Module 6 – Part 1
Week 12 4/6-4/12	Module 6 – Part 2 Factoring Continued	Homework: Module 6- Part 2 Quiz: Module 6 – Part 2
Week 13 4/13-4/19	Module 7 – Rational Expressions and Equations	Homework: Module 7 Quiz: Module 7
Week 14 4/20-4/26	Review for Unit Exam Unit 3 Exam (Modules 4 – 7)	Test/Quiz: Unit 3 Exam
Week 15 4/27-5/3	Review for Final Exam Final Exam	Test/Quiz: Final Exam