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 (online)

- **CREDIT HOURS:**   3

- **SEMESTER:**   Fall 2022

- **INSTRUCTOR NAME:**   Katie Seigle

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

- **OFFICE HOURS:** No on campus office hours. Tuesday 6:00-7:00 via Zoom. Additional time available per student request. Link will be posted on Canvas course page.

- **PREREQUISITES:** Competence as 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, systems of equations in 2 variables, operations with polynomials, rational expressions, and an introduction to solving quadratic equations. *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:**
  Text: Online Access to Lumen Learning

  Calculator: You will need a calculator to do the work in this class. I recommend the TI83 (if you plan to take additional math courses) or the TI30 (if you do not plan to take additional math courses), both made by Texas Instruments.

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

Homework:	20%
Quizzes:	20%
Exams:	60%

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

A grade of C or better must be achieved in this class to use it as a pre-requisite for a subsequent class.

Online Homework has been set up in Lumen Learning and consists of multimedia reading assignments and problems. You are expected to complete these according to the schedule on the last page of this syllabus. Specific due dates for each homework assignment are also posted in Lumen Learning. You have unlimited attempts on these homework problems up until the due dates. Homework not completed by the due date may be accessed and completed with a 10% grade deduction for the late part of the assignment. I strongly suggest that you work ahead throughout the semester.

Weekly Quizzes are short quizzes that include topics primarily from the most recent assignment. Students are given two attempts on each quiz up until the due date. Once the due date passes the quiz will still be available but with a 10% reduction. Completing quizzes on time is a course requirement and full credit is only available for work submitted by due dates.

Online Exams have been set up in Lumen Learning. I recommend that you use the Chapter Test Prep Videos prior to opening these exams. In addition, there are sample tests that may be taken as practice tests. You are allowed two attempts on each of these exams up until the due date. Exams not done by the due date are still available but there is the 10% late penalty.

Final Exam is set up in Lumen Learning. You are allowed two attempts on this exam up until the due date. Exams not done by the due date earn a grade of 0.

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 his/her progress, and initiate a request for help.**

- **NEED FOR ASSISTANCE:** Often additional assistance is needed in a math class. Free tutoring is available through the Student Success Center. This is an excellent service that many students take advantage of regularly. It can often make the difference between success and failure. If you think you are going to have difficulty in this class, sign up immediately, since it can sometimes take a little time to connect you with a tutor. Contact Gloria Moulton, gmoulton@ccsnh.edu to schedule appointments.

- **ATTENDANCE POLICY:** It is my expectation that you will login to Lumen Learning through Canvas several times each week. All students are expected to read any announcements (which will be posted in Canvas). Please be aware that this is a 3-credit college course which in a traditional setting would include a 3-hour class meeting and homework that takes between 3 and 9 hours per week. Therefore, online students should expect to set aside a minimum of 6-12 hours per week to complete assignments. Students who struggle with the subject or typically require more time should plan to set aside more time in order to meet course objectives.

   Extended absence may result in your removal from the course. If you do not login to the course for more than 2 weeks, I may remove you from the course and record a grade of AF (Administrative Failure) which affects your GPA and your future financial aid.

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.

- **COURSE OUTCOMES/COMPETENCIES:**
  Course competencies: At the conclusion of this course, the student will be able to:
  * Evaluate and graph linear equations
  * Solve verbal problems involving linear equations
  * Solve compound inequalities
  * 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 variables
  * Perform basic operations on polynomial expressions (including division)
  * Factor polynomial expressions
  * Find the domain of algebraic fractions
  * Perform basic operations on simple algebraic fractions
  * Simplify algebraic fractions
  * Solve equations containing simple algebraic fractions
  * Solve variation problems

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, Matt Simon msimon@ccsnh.edu .

Course Schedule (Fall 2022)

Instructor may announce changes to this schedule in Canvas. Students are expected to stay informed.

	Class Topics	Assignments
Week 1 **8/29**	**Module 0 - Review Topics** Fractions, Real Numbers, Expressions, Order of Operations, Percents	**Homework:** Module 0, OHM Student Tutorial **Quiz:** Module 0 **Due 9/4**
Week 2 **9/5**	**Module 1 - Part 1** Multi-step linear equations	**Homework**: Module 1 - Part 1 **Quiz:** Module 1 - Part 1 **Due 9/11**
Week 3 **9/12**	**Module 1 - Part 2** Equations and Inequalities	**Homework**: Module 1 - Part 2 **Quiz:** Module 1 - Part 2 **Exam #1** **Due 9/18**
Week 4 **9/19**	**Module 2 - Part 1** Graphing	**Homework**: Module 2 - Part 1 **Quiz:** Module 2 - Part 1 **Due 9/25**
Week 5 **9/26**	**Module 2 - Part 2** Slope and Equation of a Line	**Homework**: Module 2 - Part 2 **Quiz:** Module 2 - Part 2 **Due 10/2**
Week 6 **10/3**	**Module 2 - Part 3** Systems of Linear Equations	**Homework**: Module 2 - Part 3 **Quiz:** Module 2 - Part 3 **Due 10/9**
Week 7 **10/10**	**Module 3 - Part 1** Solving Systems of Equations	**Homework**: Module 3 - Part 1 **Quiz:**Module 3 - Part 1 **Due 10/16**
Week 8 **10/17**	**Module 3 - Part 2** Methods for Solving Systems	**Homework:** Module 3 - Part 2 **Quiz:** No quiz this week **Due 10/23**
Week 9 **10/24**	**No new material**	**Exam #2** **Due 10/30**
Week 10 **10/31**	**Module 4** Exponents	**Homework:** Module 4 **Quiz:** Module 4 **Due 11/6**
Week 11 **11/7**	**Module 5** Polynomials	**Homework:** Module 5 **Quiz:** Module 5 **Due 11/13**
Week 12 **11/14**	**Module 6 - Part 1** Solving Polynomials	**Homework**: Module 6 - Part 1 **Quiz:** Module 6 - Part 1 **Due 11/20**
Week 13 **11/21**	**Module 6 - Part 2** Factoring	**Homework:** Module 6 - Part 2 **Quiz:** Module 6 - Part 2 **Due 11/27**
Week 14 **11/28**	**Module 7** Rational Expressions and Equations	**Homework**: Module 7 **Quiz:** Module 7 **Due 12/4**
Week 15 **12/5**	**No new material**	**Exam #3** **Due 12/11**
Week 16 **12/12**	**No new material**	**Final Exam** **Due 12/16**