

## LAKES REGION COMMUNITY COLLEGE

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

### COURSE OUTLINE/SYLLABUS SHEET

- **COURSE NO:** MATH1420L

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- **COURSE TITLE:** Essentials of Algebra

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- **CREDIT HOURS:** 3

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- **SEMESTER:** Spring 2021

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

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

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

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- **CONFERENCE HOURS:** Mon. 2:30- 4:00, Tues. 2:30- 4:00, Wed. 10:00-12:00.  
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. **Due to COVID, please contact instructor to set up meeting time via phone or Zoom. Limited on campus meetings are available by appointment.**

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

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- **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.***

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- **TEXT/INSTRUCTIONAL MATERIALS:**  
**Text:** Online Access to Pearson's MyLabMath REQUIRED  
Introductory Algebra for College Students, Robert Blitzer, 8<sup>th</sup> edition; see Canvas for instructions on setting up your access to this online resource. Students must purchase the access code either through the college bookstore or directly from the MyLab program. Temporary free access is available (14 days) so that students can start course prior to purchase.

**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 TI30X II (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:

Overview Assignments	5%
Homework:	20%
Weekly Review Quizzes:	15%
Unit Exams:	45%
Final Exam:	15%

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.**

**Overview Assignments** involves reading PowerPoints, the online text or watching any video or animations that are posted. The purpose of this activity is to enable students to prepare for and effectively participate in each week's assignments. Students are expected to complete these assignments prior to completing homework problems. Assignments not completed by the due date may still be accessed during the course and completed with a 10% grade deduction for late work. **No make-up assignments will be given; however, 1 low grade will be dropped.**

**Homework** has been set up in MyLabMath and will be posted in the weekly Canvas modules. The entire homework schedule is shown on the last page of this syllabus. You have unlimited attempts on these homework problems up until the due dates. Homework not completed by the due date may still be accessed during the course and completed with a 10% grade deduction for late work. **No make-up assignments will be given; however, 1 low grade will be dropped.**

**Weekly Review Quizzes** are given most weeks. Students are given two attempts on each quiz up until the due date. Once the due date passes the quiz may be accessed; however only one attempt is available and a 10% point deduction will be taken. **No make-up assignments will be given; however, 1 low grade will be dropped.**

**Online Unit Exams** have been set up in MyLabMath and will be posted in the Canvas weekly assignment modules. You are allowed two attempts on each of these exams up until the due date. Exams not done by the due date earn a grade of 0. Once the due date passes the exam may be accessed; however only one attempt is available and a 10% point deduction will be taken. A practice version of each exam will also be posted. These do not count toward your grade and are completely optional. These practice exams are provided to help you practice prior to taking the real exam.

**Final Exam** is due during the last week of the class. 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.** The instructor is available by appointment to assist students. It is essential to start your work early in the week so that if you need help you can get it prior to the assignment due dates.

- **NEED FOR ASSISTANCE:** Often additional assistance is needed in a math class. I can set up office hours by appointment. Students must email me to schedule an appointment.

Free tutoring is available through the Teaching and Learning 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. Please email Gloria Moulton, [gmoulton@ccsnh.edu](mailto:gmoulton@ccsnh.edu) to request a tutor.

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- **ATTENDANCE POLICY:** It is my expectation that you will login to Canvas and check your student email several times each week as important course information will be posted or sent at the beginning of each week. Please be aware that this is a 3-credit college course which in a traditional setting would include a 3-hour class meeting and 3 to 9 hours of homework per week. Therefore, students should expect to set aside a **minimum of 6 hours per week** to complete assignments. Students who struggle with the subject or typically require more time and 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 several weeks, I will remove you from the course and record a grade of AF (Administrative Failure).

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- **COURSE OUTCOMES/COMPETENCIES:**

**Course 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

Instructor may announce changes to this schedule in class; students are expected to stay informed of changes

Date	Topics	Homework Assignments/Assessments
<b>Week 1</b> 1/19-1/25	Course Introduction Chapter 1, Review of Algebra Prerequisites, 1.1-1.8	Homework: Orientation Assignment Homework: Chapter 1 Overview Homework: Homework Chapter 1
<b>Week 2</b> 1/26-2/1	Chapter 2, Sections 2.1-2.3, Solving Linear Equations	Homework: Sections 2.1-2.3 Overview Homework: Homework Sections 2.1-2.3 Test/Quiz: Weekly Review Quiz 1
<b>Week 3</b> 2/2-2/8	Chapter 2, Sections 2.4-2.7, Rearranging Literal Equations, Solving Linear Inequalities, Problem Solving	Homework: Sections 2.4-2.7 Overview Homework: Homework Sections 2.4-2.7 Test/Quiz: Weekly Review Quiz 2
<b>Week 4</b> 2/9-2/15	Unit 1 Exam Chapter 3, Sections 3.1-3.2, Graphing Linear Equations	Test/Quiz: Unit 1 Exam Homework: Sections 3.1-3.2 Overview Homework: Homework Sections 3.1-3.2 Test/Quiz: Weekly Review Quiz 3
<b>Week 5</b> 2/16-2/22	Chapter 3, Sections 3.3-3.5 Slope, Slope-Intercept Form of a Line, Point-Slope Form of a Line	Homework: Sections 3.3-3.5 Overview Homework: Homework Sections 3.3-3.5 Test/Quiz: Weekly Review Quiz 4
<b>Week 6</b> 2/23-3/1	Chapter 3 & 4, Section 3.6, 4.1-4.2 Graphing linear inequalities Systems of equations	Homework: Section 3.6, 4.1-4.2 Overview Homework: Homework Sections 3.6, 4.1-4.2 Test/Quiz: Weekly Review Quiz 5
<b>Week 7</b> 3/2-3/8	Chapter 4, Section 4.3-4.5 Graphing linear inequalities Systems of equations	Homework: Section 4.3-4.5 Overview Homework: Homework Sections 4.3-4.5 Test/Quiz: Weekly Review Quiz 6
<b>Week 8</b> 3/9-3/15	Review chapters 3 & 4 Unit 2 Exam	Test/Quiz: Unit 2 Exam Test/Quiz: Weekly Review Quiz 7
<b>3/15-3/22</b>	Spring Break	
<b>Week 9</b> 3/23-3/29	Chapter 5, Sections 5.1-5.4 Operations with polynomials	Homework: Sections 5.1-5.4 Overview Homework: Homework Sections 5.1-5.4 Test/Quiz: Weekly Review Quiz 8
<b>Week 10</b> 3/30-4/5	Chapter 6, Sections 5.5-5.7 Dividing Polynomials and negative exponents	Homework: Sections 5.5-5.7 Overview Homework: Homework Sections 5.5-5.7 Test/Quiz: Weekly Review Quiz 9
<b>Week 11</b> 4/6-4/12	Chapter 7, Sections 6.1-6.4 Factoring Polynomials	Homework: Sections 6.1-6.4 Overview Homework: Homework Sections 6.1-6.4 Test/Quiz: Weekly Review Quiz 10
<b>Week 12</b> 4/13-4/19	Chapters 6 & 7, Sections 6.5-6.6, 7.1 Solving equations by factoring, simplifying rational expressions	Homework: Sections 6.5-6.6, 7.1 Overview Homework: Homework Sections 6.5-6.6, 7.1 Test/Quiz: Weekly Review Quiz 11
<b>Week 13</b> 4/20-4/26	Chapter 7, Sections 7.2, 7.3, 7.6, 7.8 Operations with rational expressions Solving equations with rational expressions	Homework: Sections 7.2, 7.3, 7.6, 7.8 Overview Homework: Homework Sections 7.2, 7.3, 7.6
<b>Week 14</b> 4/20-4/26	Unit 3 Exam	Test/Quiz: Unit 3 Exam
<b>Week 15</b> 5/4-5/7	Final Exam- due by midnight 5/7	Test/Quiz: Final 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 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, Stephen Freeborn; [sfreeborn@ccsnh.edu](mailto:sfreeborn@ccsnh.edu).