

**Nyack College**  
**MATH 101: COLLEGE MATHEMATICS**  
**SPRING 2021**

**FRIDAYS, 2:20 PM to 5:15 PM**

Professor A. Dawson

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**Prerequisite:** Math SAT scores 200-400 or instructor's permission.

**Required Textbook:** Charles D. Miller, Vern E. Heeren and John Hornsby, MATHEMATICAL IDEAS, 12th Edition, Addison Wesley, 2012.

**References:** Aufmann, Barker and Lockwood, Beginning Algebra with Applications, Houghton Mifflin, Boston, 2000. Jesse R Phagan, Applied Mathematics, Goodheart Willcox, 1997. Fleming and Nellis, Principles of Applied Statistics, Routledge, 1994.

**Web Sites:** [www.math.com](http://www.math.com) Homework help, Test preparation skills, Tutoring. [www.webmath.com](http://www.webmath.com) Type your problem and receive a step-by-step solution. [www.rcls.org](http://www.rcls.org) Search the holdings of local Rockland Country libraries and reserve books.

The Purpose of the Course: College mathematics not only fills a Core Component requirement for students in a variety of disciplines, it provides preparation for interested students to begin further study of mathematics.

**Course Description:** This introduction to college level mathematics begins with numerations systems and how our number system developed. Following this, we will study real numbers and numerical systems, basic algebra, solution of simple linear and quadratic equations, coordinate and plane geometry, and elementary statistics.

**Student Learning Goals:** Upon successfully completing this course, the student will have; increased their understanding of mathematics at the college level; renewed and sharpened their analytics skills; deepened their appreciation for the role that GOD plays in the order of the universe.

**Technical Issues:** Before beginning Unit One, please peruse the Technical Help page located in the left-hand column of the screen. It may also be helpful to go through the Student Orientation Tutorial. The tutorial will introduce you to the different tools that may be used in this online course and how to navigate them. To access the tutorial, click the Exit Course button in the lower left corner of this page. The tutorial should be listed in your Course List on the Academics page. Please remember that you are responsible for timely completion of all assignments. Technical problems or failure to meet technical requirements will not be considered a valid excuse for late or lost work. Please keep a copy of all

submitted work. If an assignment is lost and you do not have an original copy, you will be required to redo it.

**Class Polices:** 1) Academic Integrity and Plagiarism: In a Christian college academic integrity is particularly important. Any student caught cheating or plagiarizing (the unacknowledged use of other people’s words or ideas as though they were your own) will be subject to the penalties as described in the plagiarism policy in the college catalog and student handbook. 2) Reasonable Accommodation: Any student eligible for and requesting academic accommodations due to a disability is required to provide a letter of accommodation from the Office of Disabilities Support Services within the first week of class. 3) Academic Quality: Remember that grades for assignments are based not only on the completion of the assignment but the quality of work produced. The higher the quality of skills and abilities demonstrated, in areas such as expression and depth of thought, organization, writing, research, reporting, and observation, the higher the grade given to the assignment. 4) Communication with Instructor: My personal e-mail will be the primary mode of communication with students, unless specified otherwise. Please check your email regularly.

**CLASS ASSIGNMENTS:**

|        |     |  |
|--------|-----|--|
| Unit1  | 5.1 | Prime and Composite Number                               |
| Unit2  | 5.3 | Greatest Common Factor and Least Common Multiple         |
| Unit3  | 6.1 | Real Numbers, Order, and Absolute Value                  |
| Unit4  | 6.2 | Operations, Properties, and Applications of Real Numbers |
| Unit5  | 6.3 | Rational Numbers and Decimal Representation              |
| Unit6  | 7.1 | Linear Equation  |
| Unit7  | 8.1 | The Rectangular Coordinate System and Circles            |
| Unit8  | 8.2 | Lines, Slope, and Average Rate of Change                 |
| Unit9  | 8.3 | Equations of Lines and Linear Models                     |
| Unit10 | 7.6 | Polynomials and Factoring                                |
| Unit11 | 8.7 | Systems of Equations and Application                     |

**GRADING COMPOSITION AND SCALE:**

Grades for this class are calculated for each category of grading. Each category is assigned a percentage of the total grade. The course grade is based on the following components:

- Homework ..... 10%
- Class Participation ..... 10%
- Quizzes ..... 10%
- IN CLASS Assessments ..... 20%
- Midterm Exam ..... 25%
- Final Exam ..... 25%

As outlined in the catalog, all grades are calculated based on the following scale of Letter Grade/Percentile Equivalents:

|         |        |        |        |        |        |        |        |        |        |        |       |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| A       | A-     | B+     | B      | B-     | C+     | C      | C-     | D+     | D      | D-     | F     |
| 93-100% | 90-92% | 88-89% | 83-87% | 80-82% | 78-79% | 73-77% | 70-72% | 68-69% | 63-67% | 60-62% | 0-59% |

Assessment Results: The School/Department of mathematics may use assignments that are assessed for this course for program evaluation purposes. Individual results may be used as exemplars but will only be available to the program reviewers and not made public. Results of assessments will be used to show program effectiveness and evaluated for program improvement.

Notes: Homework will be collected on a “spot check” basis and will be graded. Homework showing answers without work will receive a grade of zero. Late Homework will receive a grade of zero.

Policy Regarding Plagiarism and Cheating: There is a strong policy against plagiarism and cheating in this course. Plagiarism is defined by the MLA Handbook as “the act of using another person’s ideas or expressions ... without acknowledging the source ... to repeat as your own someone else’s sentences, more or less verbatim.” Any student at Nyack College involved in cheating including plagiarism, is subject to the following discipline: First offence – failure in the course involved, Second offence – dismissal from the college.

You can use a calculator all the time.