

MATH 110: COLLEGE ALGEBRA

FALL Semester 2022

Fridays 11:10 AM to 2:05 PM EDT

COURSE INSTRUCTOR: Prof. A. B. Dawson
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APPOINTMENT INFORMATION: Office: NYC Campus, 19th Floor Office Hours: By appointment
Please request all other appointments in advance.

REQUIRED TEXTS: Michael Sullivan, COLLEGE ALGEBRA, 9th Edition,
Upper Saddle River, NJ, Prentice Hall, 2012.

CATALOG COURSE DESCRIPTION: This course will provide the necessary foundational skills for college level Mathematics and Algebra, as identified by student scores ranging from 54 -75 on the Math section of the Accuplacer Placement Test. Topics will include operations with real numbers, algebraic expressions and equations, linear equations, and word problems. This course will develop consistent proficiency of concepts and skills expected for college level mathematics and algebra performance. A **Mandatory Diagnostic Skills Assessment** will be given at the beginning and end of this course (3 credits)

STUDENT LEARNING GOALS:	Assignment* Measuring Goal Attainment:	Other Alignments	
		Core / Skill	Dept / Prg
1. Strengthen and build skills necessary for success in college level math courses.	Homework and exams		
2. Develop problem interpretation and problem solving skills.	Homework and exams		
3. Learn tools and techniques for taking notes, studying, and preparing for exams.	Learning tools and techniques for taking notes, studying, and preparing for exams.		
4. Become more confident in his/her mathematical ability	Become more confident in his/her mathematical ability		

The above student learning goals are aligned with the institutional core academic goals and skills and the department's and/or program's goals stated in the college catalog (<https://www.nyack.edu/site/nyack-catalog/>). Attainment of goals is evaluated by the identified assignments.

*Assessments primarily serve as measures of individual student growth and goal attainment. Secondly, samples of student work and/or evaluations of student work may be used by the School/Department and Institution for improving student learning and as evidence of program effectiveness. Care will be taken to protect student identity.

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..... 15%
- Exam 1 20%
- Exam 2 20%
- 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%

Care should be taken to perform at one’s best in each class. Minimum course, program, and institution grade requirements are outlined in the college catalog (<https://www.nyack.edu/site/nyack-catalog/>), falling below which may affect timely degree completion and/or financial assistance.

CARNEGIE UNIT ACCOUNTABILITY

In order to demonstrate accountability to reach the student learning goals listed above, this course holds to a professional academic standard known as the Carnegie Unit. This impacts the amounts of reading, “seat time” (instructional schedule set by the Registrar’s Office), and outside work assigned. Standardized expectations are 15 hours of class and 30 hours of homework per credit (**45 hours of class time and 90 hours of homework for a 3-credit course**). Accreditors and the US Department of Education have set these standards so as to assure that students receive a fair education.

In addition to class time, the estimated homework hours for this course, by category, are as follows:

Type of Work	Hours
Homework Assignments- 3 hours per week	36
Chapter Reading and or review of class notes – 1 hour per week	12
Tutoring on weak areas – 1 hour per week	12
Preparation for Midterm and Final Exam – 6 hours	12
Total Homework Hours	72

COURSE OUTLINE AND CALENDAR

All dates and times are listed in Eastern Standard Time (EDT).

Week 1	Overview
	<ul style="list-style-type: none"> • Introduction/Assessment Exam & “Tips for Succeeding in Math”
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> • Pre-Test
Week 2	Overview
	<ul style="list-style-type: none"> • Polynomials & Factoring Polynomials
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> • Homework & Quiz
Week 3	Overview
	<ul style="list-style-type: none"> • Operations using fractions, Rational expressions
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> • Homework & Quiz
Week 4	Overview

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	<ul style="list-style-type: none"> Linear Equations, Quadratic equations
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> Homework & Quiz

Week 5	Overview
	<ul style="list-style-type: none"> Quadratic Equation, The Distance and Midpoint Formula
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> Homework & Quiz
Week 6	Overview
	<ul style="list-style-type: none"> Exam 1
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> IN CLASS ASSESSMENT
Week 7	Overview
	<ul style="list-style-type: none"> Circles
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> Homework & Quiz
Week 8	Overview
	<ul style="list-style-type: none"> Functions & Their Properties (including Piece-wise Functions)
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> Homework & Quiz

Week 9	Overview
	<ul style="list-style-type: none"> Operations on Functions & Composite Functions
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> Homework & Quiz
Week 10	Overview
	<ul style="list-style-type: none"> EXAM 2
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> IN CLASS ASSESSMENT
Week 11	Overview
	<ul style="list-style-type: none"> Inverse & Quadratic Functions & Their Properties
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> Homework & Quiz
Week 12	Overview
	<ul style="list-style-type: none"> Synthetic Division & Polynomial Functions and Models
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> Homework & Quiz

Week 13	Overview
	<ul style="list-style-type: none"> Exponential & Logarithmic Functions
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> Homework & Quiz
Week 14	Overview
	<ul style="list-style-type: none"> Final Exam
	Activities, Assignments and/or Exams
	<ul style="list-style-type: none"> IN CLASS ASSESSMENT

COURSE POLICIES

- **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 six weeks of the beginning of classes.
- **Student Identity Verification and Privacy:** Student identity in the online course companion is verified via measures for online course enrollment (student name, matching institutional email address, and student ID#) and online course login (secure login and pass code via my.nyack.edu portal). Use of the Edvance360 Software and System is implemented and maintained in compliance with the Family Educational Rights and Privacy Act (FERPA), 20 U.S.C. § 1232g; 34 CFR Part 99, and assurances are provided that information protected by FERPA is secure from people unauthorized to use the System.
- **Attendance/Absence:** Attendance is marked in the Faculty Portal each class period. Missing any class time is detrimental to students and should be avoided. Students, however, are permitted one hour of absence (excused or unexcused) for each credit hour before grading penalties are imposed. A student must contact the professor via email or voice mail before the end of a missed class. All assignments are due on the date designated. If the professor is absent, work equivalent to the “seat time” missed will be posted in the E360 course companion in order to mark attendance and to fulfill federal/state regulations.
- **Late Assignments/Extensions:** Assignments cannot be handed in past the last day of the class, unless an extension request was approved by the professor and filed with the Registrar’s Office no later than the last day of the class (before final exams week begins—see *Extensions for Late Work policy in the college catalog*).
- **Make-Up Exams:** Students may not be absent from an announced examination period except for reasons beyond their control. In the event of an unavoidable absence, the student must arrange for a make-up examination with the instructor.
- **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*.
- **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. All written assignments will be completed using the indicated style guide.
- **Style Guide for written work:** Written assignments should be completed in either MLA or APA style.
- **Writing Center:** Because ALL Writers Need Feedback - The Writing Center is available to assist all students with writing for any classes. Peer Writing consultants, who are fellow Nyack College students and alumni, are trained to help with all stages of the writing process, from brainstorming to organizing to revising and editing papers. Plan well in advance to bring the assignment sheet, or a draft of the paper, and specific questions/concerns to any of the Center’s locations. Students are also able to have access to online consultations through Google Docs via their nyack.edu email account. The Center’s services are free. Students can drop in and work with a consultant or make an appointment through the website or by calling the Center. For more information about Writing Center services and locations, please visit the website: <https://www.nyack.edu/writingcenter/>
- **Communication with Instructor:** Nyack College email will be the primary mode of communication with students, unless specified otherwise. Please check your email regularly.
- **Grievance Procedure Policy:** Students who have a grievance relative to academic policies, grades given, or other academic judgments should first seek to resolve their complaints with the professor. If resolution is not reached, the matter may be directed to the department head or program director of

the class in question. If this does not solve the problem, a formal complaint may be made in writing to the respective Academic Dean whose judgment is final. *See the full Grievance Procedure Policy posted in the college catalog.*

- **Discrimination (Title IX):** Sex and gender discrimination, including sexual harassment, are prohibited in educational programs and activities, including classes. Title IX legislation and College policy require the College to provide sex and gender equity in all areas of campus life. If you or someone you know has experienced sex or gender discrimination, sexual harassment, sexual assault, intimate partner violence, or stalking, we encourage you to seek assistance and to report the incident through resources available at www.nyack.edu/safetyandsecurity. Confidential assistance is available at the Student Counseling Center. Faculty are NOT confidential under Title IX and will need to share reported information with the Title IX Coordinator. For these and other policies governing campus life, please see the Student Handbook.
- **Electronic Devices:** It is expected that ALL electronic devices be MUTED during class time. Do not answer phone calls or text messages during class.
- **Withdrawal Date:** Withdrawal from a course is allowed until the class reaches the 75% mark of the course length. Withdrawal requires signatures on the Registrar's Course Withdrawal form and the process should be started well before the deadline. Financial implications and satisfactory academic progress implications provided by the financial aid counselor and the academic advisor should be considered during the Course Withdrawal form process.

SELECTED BIBLIOGRAPHY AND WEB RESOURCES

www.ixl.com

www.demosgraphingcalculator.com

www.math.com

www.webmath.com