

NFC ACADEMY



COURSE OVERVIEW

Integrated Math I is a mathematics course for high school students who have successfully completed either general mathematics for grade 8 or pre-algebra. The materials in this course integrate the topics of algebra, geometry, probability, and statistics.

Throughout the course, students will practice algebraic thinking and use algebra to model and solve real world problems. Students are exposed to several branches of mathematics and will explore ways in which each one can be used as a mathematical model in understanding the world.

OBJECTIVES

The course seeks to help students expand their knowledge and skills so that they may achieve the following goals:

- Gain an increased awareness of math as a life skill.
- Understand how math is like a language, with a set of conventions.
- Realize that while mathematical models are useful in studying the world, they have limits.

In attaining these goals, students will begin to see the “big picture” of mathematics and understand how numeric, algebraic, and geometric concepts are woven together to build a foundation for higher mathematical thinking.

COURSE CONTENT & SKILL FOCUS

FOUNDATIONS OF ALGEBRA

THE LANGUAGE OF ALGEBRA

GEOMETRY

COORDINATE GEOMETRY

LINEAR EQUATIONS

EQUATIONS AND INEQUALITIES

LINEAR SYSTEMS

PROBABILITY AND STATISTICS

REQUIRED RESOURCES

Some assignments in this course require the use of resources that must be supplied by the user. These outside resources are listed by assignment.

INTEGRATED MATH I		
Unit	Assignment Title	Supply List
All	All Assignments	<ul style="list-style-type: none">• Scratch Paper/Notebook• Printer

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GRADING INFORMATION

GRADING COMPONENTS

Lessons 40%

Quizzes	30%
Tests	30%

GRADING SCALE

100-90	A
89-80	B
79-70	C
69-60	D
Below 60	F