



U.S. INTERNATIONAL CHRISTIAN ACADEMY

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Serving students since 2001

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25 years of experience in Teaching and Administration

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<http://www.usicahs.org/Library.html>

<http://www.usicahs.org/Curriculum.html>

Course Outline Syllabus

Grade/Course: MATH FOR COLLEGE READINESS 1200700

Grade Level: 12th High School

**A)TEXT BOOK: MATH Algebra , Student Edition [Hardcover] Glencoe McGraw-Hill
ISBN-10: 0078884802 | ISBN-13: 978-0078884801**

Order No.: 1

Code:ALG1003

Class Type: Online

Resources:

Text book
Teacher works CD
Teacher interactive
online
Links
Sky Conference

Length: 1 year

Instructional Supports:

Textbook, Magazines, Journals, Websites
Links, Conference, Comprehensive Reading
Plan

Area: Mathematics

Credits: 1

Total Numbers of class hours:300 hrs

Type: Mandatory

Standards:
Florida Sunshine State
Standards

Prerequisite:

Students must have successfully passed a pre-
algebra or a general math class in middle/high
school.

B) Description:

This course is intended for grade 11 or 12 students, whose test scores on the Postsecondary Educational Readiness Test (P.E.R.T.) are at or below the established cut scores for mathematics, indicating that they are not yet “college ready” in mathematics or simply need some additional instruction in content to prepare them for success in college level mathematics. This course incorporates the Common Core Standards for Mathematical Practices as well as the following Common Core Standards for Mathematical Content: Expressions and Equations, the Number System, Functions, Algebra, Geometry, Number and Quantity, Statistics and Probability, and the Common Core Standards for High School Modeling. The standards align with the Mathematics Postsecondary Readiness Competencies deemed necessary for entry-level college courses.

C) Objectives:

1. To develop in all students an appreciation and understanding for Algebra
2. to develop in all students analytical, reasoning, and critical thinking skills
3. to promote the study of Algebra

D) Contents

Chapter 1
Expressions, Equations, and Functions

Chapter 2
Linear Equations

Chapter 3
Linear Functions

Chapter 4
Linear Functions and Relations

Chapter 5
Linear Equalities

Chapter 6
Systems of Linear Equations and Inequalities

Chapter 7
Polynomials

Chapter 8
Factoring and Quadratic Equations

Chapter 9
Quadratic and Exponential Functions

Chapter 10
Radical Functions and Geometry

Chapter 11
Rational Functions and Equations

Chapter 12
Statistics and Probability

E. Methodology

E) Academic Methodology:	
Tests	30%
Writing Reports	20%
Homework	5%
Class Work	20%
Reading Assignment	25%

F) Book Reference:

- 1..McDougal Littell Algebra 1: Applications, Equations, & Graphs [Hardcover] (Author)
2. Algebra Survival Guide Workbook: Thousands of Problems To Sharpen Skills and Enhance Understanding [Paperback] by Josh Rappaport(Author)
- 3 High School Algebra Tutor (High School Tutors Study Guides) [Paperback]
The Editors of REA (Author), Algebra Study Guides (Author), Staff of Research & Education Association (Author)
- 4.A-Plus Notes for Beginning Algebra: Pre-Algebra and Algebra 1 Paperback by Rong Yang(Author)
- 5.Algebra 1 Hardcover by Inc. Prentice-Hall(Corporate Author)

H) Web Reference:

<http://www.calculatorsoup.com/calculators/algebra/>
www.algebra.com
www.coolmath.com
www.mathpower.com/linkstu.htm
www.math.com
www.purplemath.com/modules/index.htm
www.softmath.com/links-to-algebra.html
www.homeschoolmath.net/online/algebra.php
www.webmath.com
www.algebrahelp.com
<http://www.homeworksimplified.com>
<http://www.homeworksimplified.com>
www.homeschoolmath.net
<http://school.discoveryeducation.com/homeworkhelp/webmath/>
<http://www.cut-the-knot.org/content.shtml>
<http://tutorial.math.lamar.edu/Extras/AlgebraTrigReview/AlgebraTrigIntro.aspx>

I. Journals:

Advances in Applied Mathematics
Advances in Difference Equations
Advances in Differential Equations
Advances in Geometry
Advances in Mathematics
Advances in Theoretical and Mathematical Physics
Algebra & Number Theory
Algebra Colloquium
Algebra Universalis
Algebraic & Geometric Topology
American Journal of Mathematics
American Mathematical Monthly
Analysis and Applications
The Analyst

J. Magazines:

Math Horizons
Millennium Mathematics

K. Organizations:

National Council of Teachers of Mathematics (N.C.T.M.)

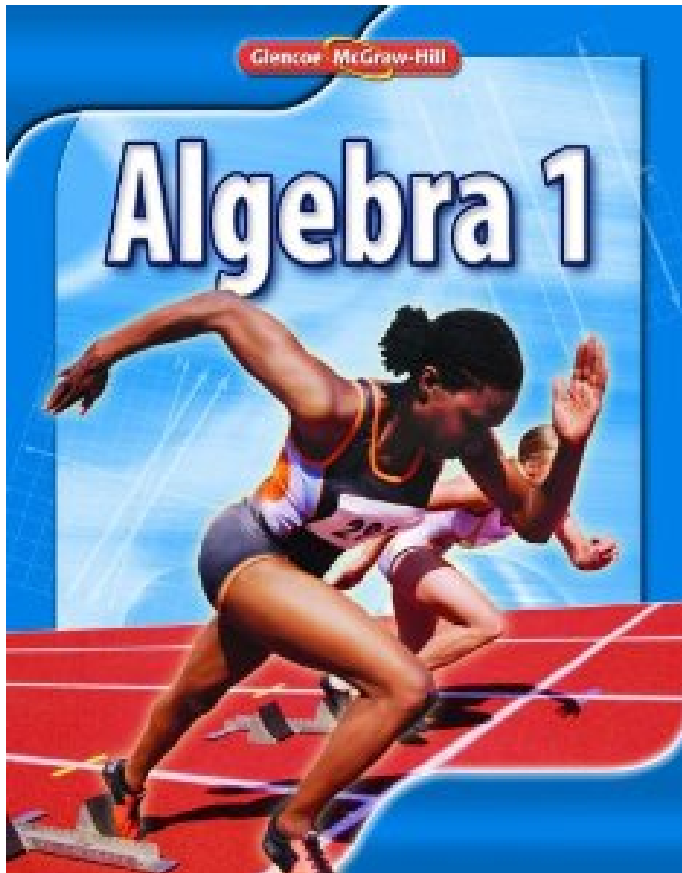
M. Comprehensive Reading Plan

Students are required to read at least 1 book or their equivalent during each class as independent reading at-home. Students must also read for 30 minutes at home as part of their daily homework assignment in all subjects. Check your Class Reading Assignment at www.USICAhs.org/CURRICULUM and check free ebooks at www.openlibrary.org.

Text Book Description:

Publication Date: January 13, 2009 | ISBN-10: 0078884802 | ISBN-13: 978-0078884801 |
Edition: 1

Glencoe Algebra I delivers the depth of content required to meet the new changes in your state's standards; provides relevant applications for teens; unique instructional resources for teachers; and is available in print, online, and on CD-ROM or DVD formats.



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