**U.S. INTERNATIONAL CHRISTIAN ACADEMY**

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**http://www.usicahs.org/Library.html**

**http://www.usicahs.org/Curriculum.html**

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| **U.S.I.C.A.Course Outline/Syllabus** |
| **Grade/Course:MATH FOR COLLEGE READINESS 1200700** |
| **Grade Level:**12thHigh School |
| **A)TEXT BOOK: MATH Algebra , Student Edition [Hardcover] Glencoe McGraw-Hill**  |
| **ISBN-10: 0078884802 | ISBN-13: 978-0078884801** |
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| **Order No.:** 1 |  | **Code:**ALG1003 | **Class Type:**Online |
| **Resources:**Text bookTeacher works CD Teacher interactive onlineLinks |  |  | **Instructional Supports:**Textbook, Magazines, Journals, Websites Links, Conference, Comprehensive Reading Plan |
| Sky Conference |  | **Length:** 1 year |  |
| **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. |
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| **B) Description:**  |

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| 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. |

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| **C) Objectives:**  |

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| 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
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| **D) Contents** |  |

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| **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 |  |  |
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**E. Methodology**

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| **E)Academic Methodology:** |
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|  Tests | 30% |
| Writing Reports | 20% |
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| Homework |

 | 5% |
|  Class Work |  20% |
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| Reading Assignment |

 | 25% |

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| **F) Book Reference:** |
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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/**](http://www.calculatorsoup.com/calculators/algebra/)

[**www.algebra.com**](http://www.algebra.com)

[**www.coolmath.com**](http://www.coolmath.com)

[**www.mathpower.com/linkstu.htm**](http://www.mathpower.com/linkstu.htm)

[**www.math.com**](http://www.math.com)

[**www.purplemath.com/modules/index.htm**](http://www.purplemath.com/modules/index.htm)

[**www.softmath.com/links-to-algebra.html**](http://www.softmath.com/links-to-algebra.html)

[**www.homeschoolmath.net/online/algebra.php**](http://www.homeschoolmath.net/online/algebra.php)

[**www.webmath.com**](http://www.webmath.com)

[**www.algebrahelp.com**](http://www.algebrahelp.com)

[**http://www.homeworksimplified.com**](http://www.homeworksimplified.com)

[**http://www.homeworksimplified.com**](http://www.homeworksimplified.com)

[**www.homeschoolmath.net**](http://www.homeschoolmath.net)

[**http://school.discoveryeducation.com/homeworkhelp/webmath/**](http://school.discoveryeducation.com/homeworkhelp/webmath/)

[**http://www.cut-the-knot.org/content.shtml**](http://www.cut-the-knot.org/content.shtml)

[**http://tutorial.math.lamar.edu/Extras/AlgebraTrigReview/AlgebraTrigIntro.aspx**](http://tutorial.math.lamar.edu/Extras/AlgebraTrigReview/AlgebraTrigIntro.aspx)

[**http://www.algebrahelp.com**](http://www.algebrahelp.com)

**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](http://www.USICAhs.org/CURRICULUM) and check free ebooks at [www.openlibrary.org](http://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.



**ACADEMIC MISCONDUCT:**

Academic misconduct includes cheating (using unauthorized materials, information, or study aids in any academic exercise), plagiarism, falsification of records, unauthorized possession of examinations, intimidation, and any and all other actions that may improperly affect the evaluation of a student’s academic performance or achievement, or assisting others in any such act or attempts to engage in such acts. Academic misconduct in any form is inimical to the purposes and functions of the school and therefore is unacceptable and prohibited.

Any faculty member, administrator or staff member may identify an act of academic misconduct and should report that act to the department head or administrative supervisor.

Students violating the standards of academic honesty are subject to disciplinary action including reduction of a grade(s) in a specific course, assignment, paper, or project; a formal or informal reprimand at the professorial, dean, or academic vice president level; expulsion from the class in which the violation occurred; expulsion from a program; or expulsion from the school.

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