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U.S.I.C.A.Course Outline/Syllabus		
Grade/Course: GEOMETRY 1206310 Grade Level: 11th High School		
A)TEXT BOOK: <u>GEOMETRY</u> by McGraw Hill (Author) ISBN-13: 978-0078952715 - ISBN-10: 0078952719		
Order No.: 1	Code: GEO1002	Class Type: Online
Resources: Text book Teacher works CD Teacher interactive online Links Sky Conference Skype, Zoom, Social Media	Length: 1 year	Instructional Supports: Textbook, Magazines, Journals, Websites Links, Videos Conference, Videos, PBS Public Television, Comprehensive Reading Plan, Videos, Skype, Zoom, e-Library, Social Media
Area: Mathematics	Credits: 1	Total Numbers of class hours: 300 hrs
Type: Mandatory	Standards: Florida Standards www2.dadeschools.net	Prerequisite: Students must have successfully passed Algebra.

B) Description:

A full year, high school math course for the student who has successfully completed the prerequisite course, Algebra I. The course focuses on the skills and methods of linear, coordinate, and plane geometry. In it, students will gain solid experience with geometric calculations and coordinate plane graphing, methods of formal proof, and techniques of construction.

C) Objectives:

Upon completion of this course, the students will be able to:

1. Understand defined terms, axioms, postulates, and theories.
2. Apply rules of formal logic and construct proofs in two-column format.
3. Solve for angles given parallels, perpendiculars, and transversals.
4. Demonstrate how to solve for sides and angles of triangles, quadrilaterals, and polygons.
5. Understand trigonometric ratios and know how to use them to solve for unknown sides and angles in given triangles as well as application word problems.
6. Be able to determine arcs, chords, and sectors of circles.
7. Calculate perimeter, area, and volume of figures and solids.
8. Graph lines and determine slopes, midpoints, and distances.
9. Make geometric constructions on paper.
10. Represent results of motion geometry (translation, rotation, reflection, dilation).
11. Collect, organize and interpret data through experimental and simulated investigation to predict and explain outcomes

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E. Methodology

E)AcademicMethodology:	
Tests	30%
Assignments	50%
Final Exam	20%

F) Book Reference:

1. Geometry [Hardcover] by Ray C. Jurgensen and Richard G. Brown (Authors)
2. Tutor in a Book's Geometry Paperback by Jo Greig (Author), James R. Shiletto Ph.D (Editor)
3. Geometry: A Comprehensive Course (Dover Books on Mathematics) Paperback
4. McDougal Littell Geometry for Enjoyment & Challenge: Student Edition Geometry 1991 [Hardcover] MCDUGAL LITTEL (Author)

H) Web Reference:

<http://www.calculatorsoup.com/calculators/geometry-calculators.php>
www.mathsisfun.com/geometry/index.html
www.geometry.com
www.101science.com/Geometrylinks.htm
www.linkstolearning.com/links/geometry1.htm
[www.en.wikipedia.org/wiki/Link \(geometry\)](http://www.en.wikipedia.org/wiki/Link_(geometry))
www.math-play.com/Geometry-Math-Games.html
www.linkstolearning.com/.../geometry - high school.htm
<http://www.mathsisfun.com/links/curriculum-high-school-geometry.html>
www.homeworkspot.com/high/math

I. Journals:

Algebraic & Geometric Topology
Advances in Applied Mathematics
Advances in Mathematics
Advances in Theoretical and Mathematical Physics
Algebra & Number Theory
American Journal of Mathematics
American Mathematical Monthly
Analysis and Applications

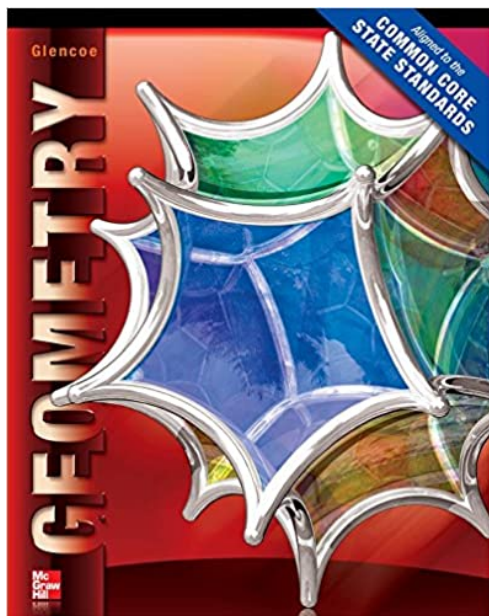
J. Magazines:

Math Horizons
Millennium Mathematics
Quantum Magazine

K. Organizations:

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

BOOK:



Text Book: GEOMETRY by [McGraw Hill](#) (Author)

Course: No. 1206310

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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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