

COURSE OVERVIEW

Mathematics

Course Number: 431

Course Name: Algebra II

Content ID Code: MA

Course Description

This course is a continuation of the material studied in Algebra I, but delving into each topic more deeply. Aside from the review of Algebra I, the course also delves into such topics as conic sections, quadratic functions, systems of quadratic equations, and some trigonometry. The main emphasis is placed on having the student recognize algebra as a study of the structure of the real and complex numbers and be able to recognize the operations within algebra and trigonometry as outgrowths from this structure.

Credits:

Course Creation Date:

Local Course #:

Instructional Time

Minutes:

Periods per Cycle

Cycles:

Clock Hours:

Methods of Assessment

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> 3-D Projects | <input type="checkbox"/> Debates | <input type="checkbox"/> Plays | <input type="checkbox"/> Simulations |
| <input type="checkbox"/> Anecdotal Records | <input type="checkbox"/> Demonstrations | <input type="checkbox"/> Portfolios | <input type="checkbox"/> Speeches |
| <input type="checkbox"/> Benchmarks | <input type="checkbox"/> Diary/Journals | <input type="checkbox"/> Presentations | <input type="checkbox"/> Standardized Tests |
| <input type="checkbox"/> Chapter Tests | <input type="checkbox"/> Final Tests | <input type="checkbox"/> Projects | <input type="checkbox"/> Student Self Evaluation |
| <input type="checkbox"/> Checklists | <input type="checkbox"/> Group Work | <input type="checkbox"/> Publisher Tests | <input type="checkbox"/> Teacher Made Tests |
| <input type="checkbox"/> Class Participation | <input type="checkbox"/> Interviews | <input type="checkbox"/> Quizzes | <input type="checkbox"/> Visuals |
| <input type="checkbox"/> Computer Products | <input type="checkbox"/> Laboratory Experiences | <input type="checkbox"/> Research Projects | |
| <input type="checkbox"/> Conferences | <input type="checkbox"/> Observations | <input type="checkbox"/> Role Play | |
| <input type="checkbox"/> Criterion-referenced Tests | <input type="checkbox"/> Performance Tasks | <input type="checkbox"/> Rubrics | |

Possible Adaptations

- | | | | |
|---|--|---|--|
| <input type="checkbox"/> Large Print Books | <input type="checkbox"/> Hands on Activities | <input type="checkbox"/> Peer Tutors | <input type="checkbox"/> Independent Study |
| <input type="checkbox"/> Audio Taped Tests | <input type="checkbox"/> Individual Aide | <input type="checkbox"/> Word Banks | <input type="checkbox"/> Contracts |
| <input type="checkbox"/> Extended Time | <input type="checkbox"/> Manipulatives | <input type="checkbox"/> Visual Cues | <input type="checkbox"/> Mentorships |
| <input type="checkbox"/> Preferential Seating | <input type="checkbox"/> Flash Cards | <input type="checkbox"/> Key Words | <input type="checkbox"/> Telescoping |
| <input type="checkbox"/> Advanced Organizers | <input type="checkbox"/> A Notetaker | <input type="checkbox"/> Acceleration | |
| <input type="checkbox"/> Additional Practice | <input type="checkbox"/> Wait Time | <input type="checkbox"/> Tiered Assignments | |
| <input type="checkbox"/> Alternate Assessments | <input type="checkbox"/> Computation Aids | <input type="checkbox"/> Expansions | |
| <input type="checkbox"/> Visualize the Auditory | <input type="checkbox"/> Study Guide | <input type="checkbox"/> Learning Centers | |

COURSE OBJECTIVES

Algebra II

Total Objectives: 8

Course Objective #	Cognitive Level	Course Objective	Month
		The student will	
431-001		The student will simplify and factor polynomial expressions.	
431-002		The student will solve equations containing radicals.	
431-003		The student will solve equations and inequalities.	
431-004		The student will solve and graph quadratic functions and equations.	
431-005		The student will identify and graph relations and functions.	
431-006		The student will solve systems of equations and inequalities.	
431-007		The student will simplify and solve rational equations and expressions.	
431-008		The student will represent conics symbolically and graphically.	