

Ocean View Christian Academy Course Syllabus

I. Basic Course Information

Course Title: Algebra 2	Room #: 206	Transcript Abbreviation:
Length of Course: 2 Semesters	Subject Area & Discipline: Math	
Pre-Requisites: Algebra 1	Course Credits/Designations:	

<p>OVCA Course Philosophy (Explanation of why we include this subject area in our course offerings): <i>The chief aim of all investigations of the external world should be to discover the rational order and harmony which has been imposed on it by God and which He revealed to us in the language of mathematics. Kepler, Johannes (1571-1630)</i></p>
<p>Course Goal (Description of what you will do and accomplish during the course): To meet the state standards as stated in the following: 1. Make sense of problems and persevere in solving them. 2. Reason abstractly and quantitatively. 3. Construct viable arguments and critique the reasoning of others. 4. Model with mathematics. 5. Use appropriate tools strategically. 6. Attend to precision. 7. Look for and make use of structure. 8. Look for and express regularity in repeated reasoning.</p>
<p>List of Key Course Topics: Linear relations and functions, quadratic, polynomial, and radical functions and relations, exponential, logarithmic, and rational functions and relations, conic sections, discrete mathematics, and trigonometry.</p>
<p>Course Materials, Supplies, & Technology: Glencoe Algebra 2 textbook, three-ring binder, lined paper, graph paper, blue/black pen, pencil, red pen, scientific calculator.</p>

<p>Primary Instructional Methods: Lecture, videos, participation, teamwork, and board work.</p>		
<p>Primary Student Activities: Note-taking, participation, group work, homework, assessments.</p>		
<p>Primary Assessment Methods: Homework, quizzes, tests, finals. Capstone Project/Key Projects:</p>		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Alignment Notes: OVCA Academic Benchmarks- Department Outcomes- </td> <td style="width: 50%; border: none; vertical-align: top;"> Other OVCA Benchmarks- UC Course Components- </td> </tr> </table>	Alignment Notes: OVCA Academic Benchmarks- Department Outcomes-	Other OVCA Benchmarks- UC Course Components-
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II. Tentative Course Timeline

Course Overview/Snapshot (3-5 sentences on the course's content):

Timeframe-1st Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 1-9	Unit 1	Equations and inequalities, linear relations and functions, systems of equations and inequalities.	Homework, quizzes, tests, final	Unit 1

Timeframe-2nd Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 10-18	Unit 2	Quadratic functions and relations, polynomials and polynomial functions, inverses and radical functions and relations.	Homework, quizzes, tests, final	Unit 2

Timeframe-3rd Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 19-27	Unit 3	Exponential and logarithmic functions and relations, rational functions and relations, conic sections.	Homework, quizzes, tests, final	Unit 3

Timeframe-4th Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 28-36	Unit 4	Sequences and series, probability and statistics.	Homework, quizzes, tests, final	Units 4 and 5
	Unit 5	Trigonometric functions, identities and equations.		

III. Course Policies

Academic Expectations

<p>Homework and Assignment Standards: All homework is mandatory and necessary for complete comprehension and preparation for future lessons. Homework is graded on completeness, neatness, and accuracy. Some assignments will be graded as quizzes.</p>	<p>Class Participation & Note-Taking: Note-taking is mandatory, and students should be prepared to work problems on classroom chalkboard.</p>
<p>Assignment Formatting: All assignment notes and homework will be dated, with page number and problem numbers written with answers circled.</p>	<p>Grading: Homework 20%, Quizzes 30%, Tests 30%, Final Exams 20%</p>
<p>Due Date Policies: Homework is graded daily. Partial work may receive a 50%, while late or missing homework will receive a grade of zero.</p>	<p>Materials Maintenance/Other:</p>

Class Procedures

<p>At the start of class: Begin Bell work on homework assignment sheet.</p>	<p>When you have been absent: All comprehension of lessons is the sole responsibility of each student. Students should utilize help-class after school, fellow students, lesson videos (Kahn Academy, YouTube...), or tutors to assist in catching up on missed lessons or keeping up on current lessons.</p>
<p>At the end of class: Double check homework assignment is notated correctly.</p>	<p>Coming to attention: No speaking without permission.</p>
<p>Turning in assignments:</p>	<p>Other:</p>

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Learning Environment

Speaking in Turn:	Food and Drink Policies: Clear bottle water only.
Class Worktimes:	Electronics/Devices: Scientific calculators only.

Resources

Teacher Contact Info.: jmatosich@ovcapatriots.com	Help Class Info.: Tuesdays-Fridays from 2:45pm -3:30pm
Other:	Other:

Parent Signature: _____

Parent Name: _____ *Date:* _____

Student Signature: _____

Student Name: _____ *Date:* _____