

MA873OR/ Algebra 2-2 CR Syllabus

Course Title-----	Algebra 2-2 CR
Course Number-----	MA873OR
Grades:-----	09-12
High School Credit Value:-----	0.5
Prerequisites:-----	A transcript or other documentation is required to show the student has previously taken the course and not earned credit.
Course Length:-----	Regular courses: 17 weeks CR: 9-17 weeks.
Course Time:-----	Regular courses: 17 week schedule: 75 - 90 minutes per school day (6-7.5 hours per week) Credit Retrieval: 75 - 90 minutes per school day (6-7.5 hours per week) until course completion.

{ Course Description }

This is a credit retrieval course for students who have already taken this class and not earned credit. Students enrolled in this course will use an online curriculum called Compass Learning Odyssey (CLO). Within the CLO, students will take objective-based assessments which indicate what standards have been met and what skills need to be practiced and demonstrated by the student. Based on the results of the this objective-based assessment, an individual plan (called a CLO learning path) will developed by the teacher and communicated to the student. Successful completion of the CLO learning paths and the final summative assessment earns a passing grade (C) and .5 credit in Algebra 1.

The second semester of Algebra 2 covers the following mathematical topics: radical functions, exponential and logarithmic functions, probability and statistics, systems of equations and inequalities, matrices, conic sections, and sequences and series.

This course helps meet the state minimum requirements of 2.0 Mathematics credits. Please check with your district for more specific requirements.

Course Materials:

The student should plan on 60 to 90 minutes of working in this math class per week day.

This math class requires the use of Compass Learning Odyssey. The student will run a system

checkup in order to be able to fully take advantage of the course. Please see the link to check for system requirements, run a system checkup, and download necessary programs. This course may be taken on the PC or Mac platform.

The student is required to participate with the instructor online, thus the student is encouraged to have headphones with a microphone in order to meet with the teacher online.

State Alignments

Washington State Standards guided the design of the course. Learning expectations are found within the course itself.

The students will begin the course with a diagnostic that will assess which standards they need to learn and which standards they have already mastered.

Standard 1 - Solve problems that can be represented by systems of equations and inequalities including systems of equation in three variables.

Standard 2 - Solve problems involving probability and solve problems involving combinations and permutations.

Standard 3 - Use the laws of exponents to simplify and evaluate numeric and algebraic expressions that contain rational exponents.

Standard 4 - Add, subtract, multiply, divide, and simplify rational and more general algebraic expressions.

Standard 5 - Translate between the standard form of a quadratic function, the vertex form, and the factored form; graph and interpret the meaning of each form.

Standard 6 - Solve quadratic equations and inequalities, including equations with complex roots and solve problems that can be represented by quadratic functions, equations, and inequalities.

Standard 7 - Solve exponential and logarithmic equations.

Standard 8 - Construct new functions using the transformations $f(x - h)$, $f(x) + k$, $cf(x)$, and by adding and subtracting functions, and describe the effect on the original graph(s).

Standard 9 - Plot points, sketch, and describe the graphs of functions of the form $f(x)=a[\sqrt{x-c}]+d$, $f(x)=a/x+b$, $f(x)=a/x^2+b$, $f(x)=a/(bx+c)$, and solve related equations.

Standard 10 - Given a finite sample space consisting of equally likely outcomes and containing events A and B, determine whether A and B are independent or dependent, and find the conditional probability of A given B.

Standard 11 - Calculate and interpret measures of variability and standard deviation and use these measures and the characteristics of the normal distribution to describe and compare data sets.

Standard 12 - Find the terms and partial sums of arithmetic and geometric series and the infinite sum for geometric series.

Standard 13 - Understand the concept of complex numbers and perform computations with complex numbers.

Standard 14 - Develop fluency in operations with real numbers, vectors, and matrices, using mental computation or paper-and-pencil calculations for simple cases and technology for more-complicated cases.

Course Outline

17 Week Learning Plan Contract	12 Week Learning Plan Contract	6 Week Learning Plan Contract	Website/Folder Name	Lesson and Assignment Checklist Bold = Graded Assignment that must be passed with a 70% or better.	Dates (Depends on your start date. Fill in for individual use.)
1	1	1	Angel/Getting Started	Read Getting Started Folder	
1	1	1	Angel/ Getting Started	Getting Started Assignment	
2	2	1	CLO/ Diagnostic Assessment	MTH857R Algebra 4 SUM12 Diagnostic Assessment (65 questions & doesn't affect your grade)	
3-4	2	1	CLO/A2.4A Folder	A2.4.A Folder – complete all lessons and quizzes within this folder	
5-6	3	2	CLO/A2.4B Folder	A2.4.B Folder – complete all lessons and quizzes within this folder	
7	4	2	CLO/A2.4C Folder	A2.4.C Folder – complete all lessons and quizzes within this folder	
8	5	3	CLO/A2.1D Folder	A2.1D Folder - complete all lessons and quizzes within this folder	
9	5	3	Angel/A2.4 Folder	A2.4 Summative Assessment	

10	6	4	CLO/A2.6A Folder	A2.6A Folder – all lessons and quizzes within this folder	
11	7	4	CLO/A2.6B Folder	A2.6B Folder – all lessons and quizzes within this folder	
12	8	4	CLO/A2.6F Folder	A2.6F Folder – all lessons and quizzes within this folder	
13	8	4	Angel/A2.6 Folder	A2.6 Summative Assessment	
14	9	5	CLO/A2.7B Folder	A2.7B Folder – all lessons and quizzes within this folder	
15	10	5	Angel/A2.7 Folder	A2.7 Summative Assessment	
16	11	6	Angel/Units Tab	Request for Course Completion – make sure you've passed all summative assessments with a 70% before submitting this. Use time remaining to redo summative assessments.	
17	12	6	Angel/Units Tab	Course Evaluation – to be completed once you've completed the course	

Course Work

This is a pass/fail course. You will pass with a C if you complete the following requirements:

First, you must read through the information in the Getting Started folder. There is an assignment (called the Getting Started assignment) that you'll take to check to be sure you understood what you read. You must pass this with a 70% or better. You should redo this assignment if you don't get a 70%.

Second, you should log into the Compass Learning Odyssey (CLO - your online textbook) and take the diagnostic assessment. This test will determine what you know and what you need to learn. Based upon your results, a learning path will be created for you. You'll need to complete all the lessons, quizzes, and activities within this learning path in order to complete the course. As you finish folders in the CLO, you can take the summative assessments on your iA campus page under

the UNITS tab.

Third, you will need to pass each summative assessment with a 70% or better in order to pass the class. Please complete these assessments after you finishing the associated folders in the CLO. The assessments are open notes, so take good notes as you complete your CLO lessons. It's required that you show or explain your work for each problem in order to earn full points. If you earned a 70%, you've passed. If you don't earn a 70%, your instructor will contact you, ask you to review the problems you missed, and then resubmit the assessment. If you pass these three assessments and complete the above requirements, you'll earn a passing grade of a C.

Failure to complete the course requirements will result in not earning credit in the course.

Grading

There are two possible grades in this course: C or AUDIT. You will earn a C if you complete all the course requirements including passing the Getting Started assignment with a 70% or better, completing your CLO diagnostic and learning path, and passing three summative assessments with a 70% or better. Remember, you can revise your Angel assignments to meet the course standard of 70%.

Occupational Credit:

This course may qualify for *occupational credit. Please consult your school counselor for further clarification.

*Please note that FLA901 (Sign Language) does not qualify for occupational credit.

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