



# Course Syllabus Report

## MA7320 Algebra 1-1 (MA7320)

**DISTRICT APPROVED CURRICULA:**

**STATE COURSE CODE:** MAT052 (Algebra I)

**GRADE LEVELS:** 7th Grade, 8th Grade, 9th Grade, 10th Grade, 11th Grade, 12th Grade

**CREDITS:** 0.5

**AVERAGE HOURS PER WEEK:** 6

**PREREQUISITES:**

**DEFAULT ALE CERTIFICATED TEACHER:** Kim Franett Fergus

### **ALE COURSE GRADING SCALE:** 9-12

A = 90%-100%

B = 89%-80%

C = 79%-70%

P = 60%-70%

F = 59%-0%

**DESCRIPTION** Algebra I builds students' command of linear, quadratic, and exponential relationships. Students learn through discovery and

application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new

situations.

Course topics include problem solving with basic equations and formulas; an introduction to functions and problem solving;

linear equations and systems of linear equations; exponents and exponential functions; sequences and functions.

This course supports students as they develop computational fluency, deepen conceptual understanding, and apply Common

Core's mathematical practice skills. Students discover new concepts through guided instruction and confirm their understanding

in an interactive, feedback-rich environment.

Varieties of activities allow students to think mathematically in a variety of scenarios and tasks. In Discussions, students

exchange and explain their mathematical ideas. Modeling activities ask them to analyze real-world scenarios and mathematical

concepts. In addition, in Performance Tasks, students synthesize their knowledge in novel, real-world scenarios, make sense of

multifaceted problems, and persevere in solving them.

**ESSENTIAL LEARNINGS:** 1. Understand and perform Arithmetic with Polynomials and Rational Expressions

2. Create Equations

3. Understand how to solve System of Equations and Inequalities

4. Understand, interpret, and analyze functions

5. Build functions

6. Construct and compare linear and exponential model and solve problems

7. Extend the properties of exponents to rational exponents.

8. Use properties of rational and irrational numbers.

9. Perform arithmetic operations with complex numbers

10. Make Inferences and Justifying Conclusions

11. Understand independence and conditional probability and use them to interpret data

12. Use probability to evaluate outcomes of decisions

**INSTRUCTIONAL MATERIALS NEEDED:** Internet access, computer, modern OS/software/web browser, headphones with microphone, webcam

preferred, - if not built into computer, Access to a printer/scanner is necessary for written assignments.

This course uses the Apex online course textbook. All

## **SYLLABUS**

### **ALE COURSE OBJECTIVES**

1. Understand and perform Arithmetic with Polynomials and Rational Expressions

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## **ALE COURSE STANDARDS**

[https://www.fwps.org/cms/lib/WA01919399/Centricity/domain/796/2021\\_standards/ms\\_math/hs\\_math/Algebra%201%20Extension%20MYP%20Priority%20Standards.pdf](https://www.fwps.org/cms/lib/WA01919399/Centricity/domain/796/2021_standards/ms_math/hs_math/Algebra%201%20Extension%20MYP%20Priority%20Standards.pdf)

## **LEARNING REQUIREMENTS**

**Weekly Work Completion:** Scholars will submit original work in all classes each week.

**Original Work Submissions:** Scholars will only submit their original work. If a scholar uses outside sources in the creation of their original work, citations must be present in the format requested by their teacher.

**Weekly Communication:** Scholars will communicate weekly with their teachers regarding their academic progress.

**Functioning Technology/Required Materials:** Scholars will always have constant and consistent access to the functioning hardware, software, technology, and required materials necessary to complete their coursework in all classes.

**Academic Integrity:** Academic integrity is essential to learning. scholars are expected to complete their own work. Copying, plagiarizing, cheating, or other methods of intentional deception are prohibited and could result in the scholar's removal from the class or iA entirely.

**IA Policy 1st Offense:** The scholar will be contacted by the teacher via phone call, the scholar will be made aware of the plagiarism and examples of how this can be avoided will be discussed. Direct instruction on plagiarism will be delivered by the teacher. iA Administration and other teachers will be made aware of the plagiarism. The work must be redone without plagiarism.

**2nd Offense:** The scholar and parents will be contacted by the teacher directly and the scholar will have to complete the plagiarized assignment without plagiarism before moving on in the course. iA Administration will be made aware.

**3rd Offense:** The scholar will be withdrawn from the course or iA depending on the severity and/or frequency of the plagiarism.

**WAC (Weekly Academic Contact):** State regulations require scholars in online programs to have weekly academic contact with each teacher. This occurs by engaging with the curriculum and online

instruction, submitting assignments to make progress in learning, and successfully completing courses. Scholars have multiple opportunities and methods to achieve weekly academic contact and receive teacher assistance and feedback: email, message, live online sessions, assignments, phone, and/or face-to-face meetings by appointment when applicable and in accordance with social distancing guidelines. In accordance with new state law the iA Weekly Academic Contact policies are changing. To ensure the success of all iA scholars, Weekly Academic Contact is required to remain enrolled at iA.

1st week missed WAC= Notification of missed WAC that informs scholars and parents of the consequences of additional missed WAC.

(Step 1)

2nd consecutive or 3rd cumulative week of missed WAC= The scholar and parent must conference with a designee to discuss the missed contact, administer a “screener”, and develop a data-based interventions plan. (Step 2)

5th consecutive OR 6 cumulative of missed WAC= BECCA petition will be filed. (Step 3)

## **ACADEMIC GOALS**

### **ALE COURSE**

#### **LEARNING ACTIVITIES**

Text Books and/or Work Books., Activities.

## **EVALUATION**

### **ALE Course Evaluation Methods:**

Monthly Progress Review: State law also requires enrolled scholars to maintain monthly forward progress toward completing classes with success. Scholars are expected to complete one monthly module of at-standard work or have completed the teacher-prescribed plan as assigned by the certificated teacher of that course. If the assigned at-standard work is submitted, the scholar will be considered having made Satisfactory Progress. If the assigned work is not submitted and/or is not at standard, the scholar will be considered having made Unsatisfactory Progress.

An overall Monthly Progress Review (MPR) score will be prepared in the ALE App and notification that they are ready to be viewed will be emailed to every family once a month by the Advisory/Homeroom teacher to communicate overall progress

towards mastery and passing of the courses. Scholars are either making Satisfactory Progress or Unsatisfactory Progress. If a scholar is considered having made Satisfactory progress (by the individual teachers in individual courses) in 50% or more of their courses, they will be considered having made Satisfactory progress overall. If a scholar is considered having made Unsatisfactory progress (by the individual teachers in individual courses) in more than 50% of their courses they will be considered having made Unsatisfactory Progress overall. If a scholar is determined to have made Unsatisfactory Progress for consecutive months, the Advisory/Homeroom teacher will include escalating intervention plans each month in the Monthly Progress Review. If a scholar reaches 3 months of Unsatisfactory Progress they may be withdrawn by the administration.

**TIMELINES** Complete all lessons and assignments in the September module on your "modules" page in Canvas by September's monthly progress deadline. Complete all lessons and assignments in the October module on your "modules" page in Canvas by October's monthly progress deadline.

**OCTOBER** Complete all lessons and assignments in the October module on your "modules" page in Canvas.

**NOVEMBER** Complete all lessons and assignments in the November module on your "modules" page in Canvas.

**DECEMBER** Complete all lessons and assignments in the December module on your "modules" page in Canvas.

**JANUARY** Complete all lessons and assignments in the January module on your "modules" page in Canvas.

**FEBRUARY** Complete all lessons and assignments in the February module on your "modules" page in Canvas.

**MARCH** Complete all lessons and assignments in the March module on your "modules" page in Canvas.

**APRIL** Complete all lessons and assignments in the April module on your "modules" page in Canvas.

**MAY** Complete all lessons and assignments in the May module on your "modules" page in Canvas.

**JUNE** Complete all lessons and assignments in the June module

on your "modules" page in Canvas.