

Thomas Alva Edison High School

MCTC Applied Algebra
Ms. Deborah Baube -Room 303
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Course Description:

MCTC Applied Algebra is a prerequisite class for MCTC Statistics. You must have a minimum overall GPA of 2.7 or earn a C (or higher) during Semester 1 to continue in this class. MCTC Statistics is a college credit-bearing course and the final grade for the course will be a part of your college transcript.

Strong emphasis is placed on **application of algebra** and especially on current uses of function models (linear, quadratic, and exponential). The relationship among data, graphs and functions is thoroughly explored. Translating statements and questions from English into mathematics, answering those questions using algebraic procedures and then stating the results again in English will also be discussed in depth.

Major Content Areas:

1. Simplifying multi-step expressions using the order of operations
2. Using operation/inverse pairs to solve equations
3. Using functions to model situations and find critical points
4. Applying Linear Functions and solving systems
5. Applying Quadratic Functions
6. Applying Exponential Functions

Textbook: Engaging Algebra, Applied Intermediate Algebra, College Edition: by Scott Storla

Supplies:

Required:

- **Textbook (provided)**
- **Chromebook**
- **Notebook**

Suggested:

- **Post-Its & Highlighters**
- **Graph Paper**
- **A TI-83 (or higher) Graphing Calculator**

Grading Breakdown:

80% Assessments (Tests and projects)

Each of the 6 units established in the Curriculum Guide will be broken down into skill specific learning targets. Students will have opportunities to demonstrate their comprehension of each learning target with a summative unit test and an occasional project. Students who are absent should schedule an appointment with their teacher within one week of the missed assessment. Students with their phone out during an exam or who are caught using AI to complete any part of an exam/project will automatically receive 0 points and they must complete an alternative assessment to earn a grade.

Correction Policy (Tests and projects)

Students will have an opportunity to make corrections on their summative unit tests and projects for half points (with the exception of the quarter finals, which cannot be corrected). Corrections must be done in the classroom and assessments must stay in the classroom. Students have two weeks after the test is graded to complete corrections.

20% Academic Practice (Homework and Classwork)

Notes will be graded on the AVID Five Phases of Focused Note-Taking Process. Homework is your opportunity to practice independently and check your understanding of core concepts. Homework and classwork will be graded based on effort and completion. Students will have access to an answer key to check correctness themselves. **This is a college course. Homework and classwork will not be accepted after the due date. Students with IEP/504/Special Circumstances (with excused absences) can email Ms.Baube to request a late work exception.**

Other Classroom Conduct Expectations:

Passes: Students should wait for a pause in instruction or work time and ask the teacher for permission for the pass before leaving. Passes are not granted during the first or last 10 minutes of class. Students are allowed 6 passes per quarter and any remaining passes will become extra credit. Parents/guardians will be notified if students are not using their passes responsibly.

Cell phones: At the beginning of each class period, students will turn off all personal electronic devices and place them in their backpacks. On test and corrections days, we will use the designated cell phone holder at the front of the room. Devices will remain in the designated holder until the end of class, when students may collect them as directed by the teacher. If cell phones are used in class the student will be removed from the classroom. Admin will contact parents/guardians; devices may be retrieved by the student at the end of the day from the main office. See the [School Phone Policy Here](#).

Group Work and Discussion Norms: Students will be working in pairs or small groups frequently throughout the year. Working with a group will make the time in this class much easier and more enjoyable. Students are expected to contribute to their group while speaking and listening to each other with respect while learning and using each other's name.

Absences: Every time you miss class, you miss out on learning and practice which needs to be made up. Students should aim to have less than 2 absences each quarter. Please remind your parent/guardian to excuse your absence each time by calling the main office. Students are expected to communicate with their teachers by sending an email prior to or during the missed class period with a brief explanation for their absence and a specific plan to get back on track.

Additional Support: If a student is not reaching proficiency on their assessments (rubric scores below a 5 or a letter grade below a B-), it's time to try a new strategy. Students are expected to study with a classmate, visit the teacher during lunch, or attend after school tutoring with questions. Students should reach out to their teachers if they are not sure where to start. Students should send an email if they have questions about their grade or have special requests (please don't ask in class).

Comparison of Rubric Grading to Grade Scale

RUBRIC SCORE	DESCRIPTORS	LETTER GRADE
7-8	Excelling I have demonstrated deep understanding that goes beyond the standard.	A/A-
5-6	Mastering I have demonstrated learning that meets the standard.	B+/B/B-
3-4	Progressing I am getting close to meeting the standard.	C+/C/C-
2	Beginning I am beginning to work towards meeting the standard.	D+/D/D-
0-1	Not enough evidence	F

Course Outline: (dates and assignments are approximate and subject to change)

Q1

Week	Assignments
1	Introductions and Classroom Procedures
2	Lesson 1.1 Lesson 1.3
3	Lesson 1.4 Lesson 1.5
4	Lesson 1.6 Lesson 1.7
5	Lesson 1.8 Review and Test Prep
6	Chapter 1 Test Lesson 2.1
7	Lesson 2.2 Conferences/MEA Break
8	Lesson 2.3 Lesson 2.4
9	Lesson 2.5 Chapter 2 Test
10	Lesson 3.1

Q2

Week	Assignments
10	Lesson 3.2
11	Lesson 3.3 Chapter 3 Test
12	Lesson 4.1 Lesson 4.2
13	Lesson 4.3 Lesson 4.4 Thanksgiving Break
14	Lesson 4.5 Lesson 4.6
15	Chapter 4 Test Lesson 5.1
16	Lesson 5.2 Lesson 5.3 Lesson 5.4
17	Chapter 5 Test Lesson 6.1
18	Lesson 6.2 Lesson 6.3
19	Chapter 6 Test