



Algebra 1 CP Syllabus

Course Details

Course Code: 411400CW

Subject: Mathematics

Required Prerequisites: None

Suggested Prerequisites: Pre-Algebra or 8th grade mathematics

Recommended Grade Levels: 8th or 9th

Duration: Yearlong

Course Availability: A listing of when this course is offered in the current school year can be found on the [VirtualSC Current Course Offerings page](#) (opens in a new window).

Class Times: This course has scheduled instructional meetings. Information on scheduled meetings for each course is communicated by the teacher. Recordings of these meetings will be available for students unable to attend. Students should expect to spend 7-9 hours a week working on this course independently, in addition to any live meetings, and are expected to meet the deadlines posted in the course pacing guide.

Textbook: None – All content can be found in the course. Portions of this course were modified from content from CK-12 under the Creative Commons Attribution NonCommercial 3.0 Unported (CC BY-NC 3.0) license.



Required Course Materials: TI 83/84 Graphing Calculator. If a calculator cannot be purchased or is unavailable, or you may go to www.desmos.com (opens in a new window), which can be used on your computer or downloaded to your Android or Apple phone or tablet

Outside Websites: A list of links to websites and online textbooks used in this course can be found here: [VSC Course Links Document Folder \(opens in a new window\)](#). Students will need to be able to access all of these links to access all course materials.

Final Exam: Students in this course take a SC End of Course Exam (EOCE Details on scheduling and taking final exams can be found on the [Final Exam Page](#) (opens in a new window) of the VirtualSC webpage.

Course Description

Students will study and demonstrate knowledge of how to evaluate and simplify expressions; write and solve linear and quadratic equations, functions, and formulas; and write and solve systems of equations and linear inequalities. Students will also study and demonstrate knowledge of how to represent and analyze relationships using tables, equations and graphs; apply basic operations on polynomials; use basic operations on rational and irrational numbers; and communicate mathematically. The curriculum used in this course is guided by the [SCCCR Standards for Mathematics](#) (opens in a new window).

Scope and Sequence

- Orientation & Introduction
- Unit 1: Relationships and Expressions
- Unit 2: Solving Linear Equations and Inequalities
- Unit 3: Relations and Functions
- Unit 4: Linear Functions
- Unit 5: Solving Systems of Equations
- Unit 6: Polynomial Expressions
- Unit 7: Solving Quadratic Equations
- Unit 8: Graphing Quadratic Functions
- Unit 9: Exponential Functions
- End of Course Exam Review

Students will be sent a full list of assignments and their due dates at the beginning of the course.

Current pacing guides for this course can be found on the [Current Course Offerings page](#) (opens in a new window) on the VirtualSC website.

Course Grades

The final grade in this course results from the following:

- Coursework: 80%
- End of Course Exam: 20%

VirtualSC Details

Information on VirtualSC student guidelines, policies and technology requirements can be found in the [VirtualSC Student Support Portal \(opens in a new window\)](#).