

Course Details

Course Code: 411500CW

Subject: Math

Required Prerequisites: Successful completion of Algebra 1 or Intermediate Algebra

Suggested Prerequisites: None

Recommended Grade Levels: 10th or 11th

Duration: Semester

Course Availability: A listing of when this course is offered in the current school year can be found on the <u>VirtualSC Current Course Offerings page</u> (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: This course does not use a stand-alone textbook. Instead, all content is made available to the student in lessons. The lesson content comes from, and has been modified from, CK-12 and is licensed under Creative Commons AttributionNonCommercial 3.0 Unported by the CK-12 Foundation.

Required Course Materials: TI 83/84 Graphing Calculator. If a calculator cannot be purchased or is unavailable, or you may go to <u>www.desmos.com (opens in a new</u> <u>window)</u>, 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: <u>VSC Course Links Document Folder (opens in a new window)</u>. 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 VirtualSC final exam. Details on scheduling and taking final exams can be found on the <u>Final Exam Page</u> (opens in a new window) of the VirtualSC webpage.

Course Description

This course contains an in-depth study of functions, patterns, relations, and concepts of number systems. This includes linear, quadratic, exponential, absolute value, radical, and rational functions. Conic sections are also addressed.

Students will use technology and models to investigate and explore mathematical ideas and relationships and develop multiple strategies for analyzing complex situations. Students will analyze situations verbally, numerically, graphically, and symbolically. Students will apply mathematical skills and make meaningful connections to life's experiences.

The curriculum used in this course is guided by the <u>SCCCR Standards for Mathematics</u> (opens in a new window).

Scope and Sequence

- ∉ Orientation & Introduction
- ∉ Unit 01: Relationships and Patterns in Algebra
- ∉ Unit 02: Linear Functions
- ∉ Unit 03: Polynomial Expressions
- ∉ Unit 04: Quadratic Equations
- ∉ Unit 05: Quadratic Functions
- ∉ Unit 06: Systems of Equations
- ∉ Unit 07: Polynomial and Exponential Functions

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 <u>Current Course Offerings</u> page (opens in a new window) on the VirtualSC website.

Course Grades

The final grade in this course results from the following:

- Coursework: 80%
- Final Exam: 20%

Lessons and Practices do not count towards the final grade. Only Mastery Quizzes (27.5%), Unit Test (40%), and Unit Reflection (5%) count towards the final grade.

VirtualSC Details

Information on VirtualSC student guidelines, policies and technology requirements can be found in the <u>VirtualSC Student Support Portal (opens in a new window)</u>.