Intermediate Algebra

Course Details

Course Code: 411700CW

Special Note: This course counts as one credit for high school graduation. The NCAA counts it as half of a core course credit.

Subject: Mathematics

Required Prerequisites: Foundations in Algebra

Suggested Prerequisites: none

Recommended Grade Levels:

Duration: Semester, Yearlong, or Varies

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, 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 (launches in a new window) of the VirtualSC webpage.

Course Description

Intermediate Algebra is the second course in this two-course integrated sequence designed to prepare students for college and career readiness by providing a foundation in algebra, probability, and statistics. This course builds on the conceptual knowledge and skills students mastered in SCCCR Foundations in Algebra and in earlier grades in areas such as algebraic thinking, statistics, data analysis, and proportional reasoning. Students who complete this two-course integrated sequence will be given the opportunity to master several standards from SCCCR Algebra 2 and SCCCR Probability and Statistics in addition to all of the standards from SCCCR Algebra 1.

The curriculum used in this course is guided by the SCCR Intermediate Algebra Standards (opens in a new window).

Scope and Sequence

- Orientation & Introduction
- Unit 1: Foundations of Algebra
- Unit 2: Solving Absolute Value Equations & Inequalities
- Unit 3: Linear Functions
- Unit 4: Polynomials
- Unit 5: Radical and Rational Expressions and Equations
- Unit 6: Factoring Quadratic Expressions
- Unit 7: Quadratic Equations
- Unit 8: Quadratic Functions
- Unit 9: Systems of Equations and Inequalities
- Unit 10: Exponential Functions
- EOC Review Unit

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%

Students will see the following types of activities in the course:

- Lesson
- Practice/Gizmo Labs
- Mastery Quiz
- Unit Test
- Remediation
- Unit Reflection

This course is geared towards mastery of the content so students will be required to complete certain assignments to mastery. There will be a cut off score that students have to achieve in order to move on. The follow shows the cut off (mastery) scores for the specific assignments:
· Lesson: 80% or higher
· Practice: 80% or higher
· Mastery Quiz: 70% or higher
· Unit Test: 60% or higher

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).