

**HYBRID MATH 1050: COLLEGE ALGEBRA
(4 credits)**

TEXT: College Algebra, Corrected 3rd Edition, by Carl Stitz and Jeff Zeager

MATH DEPARTMENT WEBPAGE: The SLCC Math homepage is located at <http://www.slcc.edu/math/>

This site contains many resources for students. You can also find the Math Department Policies that apply to all Math courses here: <http://www.slcc.edu/math/policies.aspx>

INTRODUCTION: SLCC is committed to fostering and assessing the following student learning outcomes in its programs and courses:

- Acquiring substantive knowledge in the field of their choice
- Developing quantitative literacies
- Developing the knowledge and skills to be civically engaged
- Thinking critically
- Communicating effectively

This course, along with MATH 1060, is intended to prepare students for a comprehensive course in Calculus and is required for a major in math, physics, chemistry, engineering, and computer science, as well as many of the life sciences. MATH 1050 satisfies the QL graduation requirement in mathematics at SLCC. MATH 1030 Quantitative Reasoning, MATH 1040 Statistics, and MATH 1090 College Algebra for Business Majors also satisfy QL graduation requirements. If you are not sure of the proper course for you, contact a representative in your major department at SLCC or your transfer institution. If you have not chosen a major, contact your academic advisor.

ACADEMIC ADVISING:

Academic advising is available to assist with the following:

- Creating an educational plan and/or to set up a class schedule
- Identify the courses needed toward graduation
- Obtain transfer information
- Review academic progress

For more information, visit: <http://www.slcc.edu/academicadvising/index.aspx>

For specific questions regarding math courses and programs in the School of Science, Math and Engineering contact:

Academic Advisor: **Devan Church**

Phone: 801-957-6065

E-mail: devan.church@slcc.edu

PREREQUISITES: This course is for students who have successfully completed an intermediate algebra course, such as MATH 1010, with a grade of C or better, or who otherwise qualify by virtue of acceptable CPT or ACT scores achieved within the past year. Substitutions for the intermediate algebra course include an ACT score of 23 or better, or a CPT score of at least 43 on the college algebra section. If you do not have documentation for one of these prerequisites, you are advised to enroll in a math class more appropriate for your background.

COURSE DESCRIPTION: For students who are proficient in intermediate algebra, this course is designed to satisfy quantitative literacy requirements and to prepare students for trigonometry and calculus. Topics include: polynomial, rational, exponential, and logarithmic functions and graphs; complex roots of polynomial functions; matrices; partial fractions; conics; sequences and series; the binomial theorem.

COURSE OBJECTIVES: The primary objective of College Algebra is for students to gain a theoretical and operational understanding of the college algebra topics listed above. Graphing technology, computers, and / or graphing calculators will be utilized to assist students in grasping these concepts. **However, your performance will be measured primarily on your understanding of the concepts and your facility in doing symbolic operations rather than your ability to use technology to get answers.**

Upon completion of this course, students should be able to:

- Demonstrate a theoretical understanding and manipulative facility of functions including polynomial, rational, exponential, and logarithmic.
- Apply algebraic skills to the formulation and solution of “real-world” application problems.
- Represent equations and systems of equations graphically through the use of graphing technology, and to integrate the algebraic and graphic interpretation of these concepts.
- Advance readily to higher-level math classes, Trigonometry and Calculus.

STUDENT CODE OF CONDUCT: All students at SLCC must comply with the Student Code of Conduct: http://www.slcc.edu/policies/docs/Student_Code_of_Conduct.pdf. In particular, note the Academic Standards on pages 38 and 39 with regards to cheating, misrepresentation, out-of-class work, and plagiarism. In compliance with this document, a student who is academically dishonest will receive an E for this course. Also note the Disorderly Conduct sections on pages 16 and 17.

ELECTRONIC DEVICES IN THE CLASSROOM: No video or audio recording in the classroom is allowed without written authorization from the instructor. Cell phones and other electronic devices should be in silence mode during lectures, tests, and final exam. Such devices should not be on the desk during lectures, tests, and final exam. In case of emergency, students should exit the classroom before they e-mail, text, or use their cell phones. If students choose to use a computer or electronic device to take notes, they may do so without distracting their classmates. Computer activities that are not related to the class directly should not be done during class time. Students who text, talk on the cell phone, or use their computers to do activities not directly related to the class will be asked to leave the classroom.

GENERAL EDUCATION STATEMENT: This course fulfills the **Quantitative Literacy (QL)** requirement for the General Education Program at Salt Lake Community College. It is designed not only to teach the information and skills required by the discipline, but also to develop vital workplace skills and to teach strategies and skills that can be used for life-long learning. General Education courses teach basic skills as well as broaden a student’s knowledge of a wide range of subjects. Education is much more than the acquisition of facts; it is being able to use information in meaningful ways in order to enrich one’s life. While the subject of each course is important and useful, we become truly educated through making connections of such varied information with the different methods of organizing human experience that are practiced by different disciplines. Therefore, this course, when combined with other General Education courses, will enable you to develop broader perspectives and deeper understandings of your community and the world, as well as challenge previously held assumptions about the world and its inhabitants.

WITHDRAWAL POLICY: The last date students may drop from the course is posted on the class schedule. The last date students may withdraw from the course is also posted on the class schedule. No withdrawals will be approved after that date.

ACCOMMODATIONS: Students with medical, psychological, learning or other disabilities desiring accommodations or services under ADA, should contact the Disability Resource Center (DRC). The DRC determines eligibility for and authorizes the provision of these accommodations and services for the college.

Please contact the DRC at the Student Center, Suite 244, Redwood Campus, 4600 So. Redwood Rd, 84123. Phone: 801-957-4659, TTY: 801-957-4646, Fax: 801-957-4947 or by email: linda.bennett@slcc.edu or for more information visit: <http://www.slcc.edu/drc/index.aspx>

ATTENDANCE: Class attendance is expected. Participation in classroom activities will constitute part of the course grade. In addition to attending class, it is the student's responsibility to be aware of all material covered, tests dates, and assignment due dates. This information is posted on the class schedule and/or will be announced in class.

CLASS SCHEDULE: The class schedule will be followed as closely as possible. However, **some modifications may be necessary during the semester.** Your instructor will announce all modifications in class.

CALCULATORS: Scientific calculators with no more than a basic numeric store and recall memory are allowed on the final exam.

The following are prohibited on any in-class test, quiz, and the final exam: graphing, programmable, or calculators capable of symbolic manipulation, including the TI89, TI92, TI-Nspire, HP 48SX, HP 48GX, as well as other models and brands, computers, cell phones, and any other communication device that can connect to the Internet.

Further, your instructor may require that no calculator be used on all or a part of any in-class test or quiz.

GRADING: The following standardized breakdown of weights will be used in calculation of the course grade.

Assignment	Percent of final grade	A	93-100%	D	63-66%
In-Term Exams	40%	A-	90-92%	D-	60-62%
Final Exam	25%	B+	87-89%	E	0-59%
In-Class Participation	10%	B	83-86%		
Homework	5%	B-	80-82%		
Canvas Quizzes	5%	C+	77-79%		
TOYO Video Problems	5%	C	73-76%		
Assignments	5%	C-	70-72%		
Worksheets, Old Final	5%	D+	67-69%		

EXAMS: All examinations will be closed book and will be taken at the testing center. **You may take exams up to two weeks early, but not late.** Full credit will be awarded on test problems only if your work can be readily followed and solutions are precise and clearly indicated. No exam score will be dropped.

There will be four exams during the semester (“in-term”) and a final exam at the end of the semester. Dates for all exams are posted on the schedule. You may take the final exam up to two weeks early, but not after the last date when it is posted on the schedule. The final will be a standardized department examination emphasizing topics listed under the course objectives. It is an SLCC Math Department policy that students attaining a score of **less than 60%** on the final shall receive a grade **no higher than "D"** for the course.

QUIZZES: Quizzes are online in Canvas. The deadline for taking each quiz is on the class schedule. Each quiz contains five multiple choice problems and has a limit of two tries.

TRY ON YOUR OWN VIDEO PROBLEMS: You will be required to watch online videos outside of class and work through one problem imbedded in each video. These video problems must be submitted in pdf format through your Canvas course site by the deadline posted on the class schedule.

HOMEWORK: Homework will be online in WebAssign. The instructions for getting started in WebAssign are on the course Canvas site. These exercises are considered the minimum required for a sufficient understanding of the material. Students are encouraged to work more exercises than those required. **Regular practice is essential for success in mathematics; you should be prepared to spend at least ten hours studying outside of class per week.**

ASSIGNMENTS: Some assignments will examine real world applications and others will provide extra problem solving practice. All assignments are available on the course Canvas site and must be submitted by the deadline in pdf format through Canvas.

WORKSHEETS & OLD FINAL EXAM: Worksheets will be assigned at the end of each module and will be turned in through Canvas in pdf format. Working through an old final exam will be required during the last week of class. Solutions will be available for the worksheets and the old final exam. All problem solving steps must be shown to receive credit.

GENERAL EDUCATION ePORTFOLIO: Each student in General Education courses at SLCC maintains a General Education ePortfolio. Instructors in every Gen Ed course will ask you to put at least one assignment from the course into your ePortfolio, and accompany it with reflective writing. **It is a requirement in this class for you to add one of the three assignments: Multiple Discounts, Credit Card Debt, or Passing Under a Bridge, along with a reflection, to your ePortfolio.** Your ePortfolio will allow you to include your educational goals, describe your extracurricular activities, and post your resume. When you finish your time at SLCC, your ePortfolio will then be a multi-media showcase of your educational experience. For detailed information visit <http://www.slcc.edu/gened/eportfolio> .

After you have picked an ePortfolio platform, go to the corresponding help site to watch the tutorials and look at the examples so you can get started on your own:

<https://sites.google.com/site/slccport>

<http://slccportfolio.wordpress.com>

<http://slccportfolio.weebly.com>

If you would like to start your ePortfolio in a computer lab with a person there to help you, sign up online for one of the **free workshops** at the Taylorsville-Redwood library:

<http://libweb.slcc.edu/services/forms/eportfolio>. You may also visit an **ePortfolio Lab** (in the Taylorsville-Redwood Library LIB 047 as well as in HTC 102a on the Jordan Campus) during business hours, and staff will help you without an appointment. Finally, questions regarding the ePortfolio can be directed to eportfolio@slcc.edu.

Your signature assignment should get uploaded to your ePortfolio under the "Coursework" category as a "Quantitative Literacy (QL)" course.

ADDITIONAL ASSIGNMENTS: Your instructor, throughout the course, may assign additional brief written assignments, group exercises, or computer projects.

PERMANENT FOLDER: To minimize the possibility of computer or human error all graded assignments and exams should be kept in a folder until you have received your final grade for the course.

POSTING OF GRADES: Grades will **not** be posted except through the Internet.

EXTRA HELP: Math 1050 is a challenging course. Keep up on assignments. Many students find that forming study groups with other students is a very effective way for them to master mathematics. If you need extra help, free tutoring is available in the Learning Centers (phone 801-957-4172) at Redwood TB-213 and LIB 044, South 3-174 (phone 801-957-3261), and Jordan Rm. HTB 102 (phone 801-957-2852), or visit: <http://www.slcc.edu/tutoring/index.aspx>. A list of private tutors who may be hired is available in the Learning Centers. The internet is full of resources that could be used for this class. You are encouraged to explore. Individualized and small group tutoring is available (and free) to students through **Focused Tutoring**. Students need to apply to be matched with a tutor for the semester. Tutoring can be arranged at other campuses depending on tutor and student schedules. Contact Jennifer Fasy for more information (Jennifer.fasy@slcc.edu; 801-957-4138) or visit: <http://www.slcc.edu/focusedtutoring/index.aspx>