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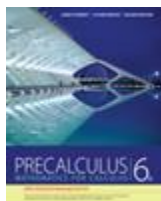
**PHONE:** 801-899-MATH (801-899-6284) Google Voice Mail

**CONSULTATION:** MW 6:00am-8:00am

**INSTRUCTOR WEB SITE:** <http://kristincartwright.yolasite.com/>

**MATH DEPARTMENT WEB SITE:** <http://active.slcc.edu/math/>

**Required:** WebAssign Access Code. (About \$75 if purchased through the website. There is a 10 day free trial period available.) WebAssign is the homework management system where we will be doing our online homework. Once logged in, the full textbook can be found within WebAssign, but having the hardcopy of the text is strongly recommended.



**Recommended (strongly):** Precalculus, Sixth Edition by Stewart/Redlin/Watson; publisher Brooks/Cole, Cengage Learning.  
*Many textbooks come packaged with a WebAssign Access Code.*

**WebAssign Class Key:** **slcc 9634 5460**

**Introduction:** Welcome to Precalculus! Please read this syllabus carefully. We feel that it will answer most of the questions you may have about how Math 1080 fits in with your goals as a student at Salt Lake Community College. Math 1080 is intended to prepare students for a comprehensive course in Calculus and will replace Math 1050 and Math 1060 as a prerequisite. This course is designed for students pursuing a major in math, physics, chemistry, engineering, and computer science, as well as many of the life sciences. Math 1080 satisfies the QL graduation requirement in mathematics at SLCC.

This course is VERY TIME INTENSIVE. It is a 5 credit course, but with the workload may feel closer to 6 or 7 credits. Please review the syllabus and schedule and make sure you are ready for the amount of work this class will be. To be successful in this course, you will need to make sure your schedule allows for *at least* 10 hours of study time outside of our class time per week.

**Prerequisite:** Within the past year, students must have received a CPT score of at least 43 on the college algebra section, or scored well enough in Math 1010 that they received instructor approval.

**Course Description:** This course will include, but not be limited to, the following topics: 1) functions including polynomial, rational, exponential, and logarithmic; 2) equations, inequalities and systems of equations; 3) matrices and determinants; 4) partial fraction decomposition; 5) conics; 6) sequences and series; 7) trigonometric functions and identities; 8) inverse trigonometric functions; 9) trigonometric equations; 10) solving triangles; 11) polar coordinates; 12) complex numbers; 13) parametric equations and vectors; 14) graphs; and 15) applications.

**Course Objectives:** The primary objective of Precalculus is for students to gain a theoretical and operational understanding of the 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, logarithmic, and trigonometric.
- Apply algebraic and trigonometric skills to the formulation and solution of “real-world” application problems.
- Represent functions, equations and systems of equations graphically through the use of graphing technology, and integrate the algebraic and graphic interpretation of these concepts.
- Advance readily to a Calculus class.

**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.

**Required Materials:** You will need a scientific calculator.

**Calculators:** Calculator use may be restricted on some exams or portions of exams. **Calculator with a computer algebra system will not be allowed on any in-class quizzes, exams or on the final exam.**

Prohibited calculators include the TI89, TI92, TI-Nspire, HP 48SX, HP 48GX, as well as other models and brands.

**In addition, neither smartphones nor tablets may be used as a calculator on any in-class quizzes, exams or on the final exam.** Students may use any calculator and/or computer software (e.g. Maple) on homework or projects.

Help in learning to use a graphing calculator (and some math software) is available in the math labs, which are located in SI 092 at Redwood, and W285 and N308 at South City Campus. There is also “TI Graphing Calculator Help” linked to the department’s web page; click on “Resources for Student Success”. In addition, your textbook has a graphing utilities appendix.

**Class Schedule:** Attached is a schedule for this semester. This 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.

**Attendance: Class attendance is expected.** Regular attendance is essential to achieve satisfactory results. It is the student's responsibility to be aware of all material covered, tests dates, and assignment due dates. Your instructor will outline specific attendance policies.

**Homework: Homework will be completed online through WebAssign.** The due dates for assignments will be the following Monday night at 11:59pm after the material is learned in class. These exercises are considered the minimum required for a sufficient understanding of the material. Students are encouraged to work more exercises than those listed. **Regular practice is essential for success in mathematics; you should be prepared to spend at least two hours studying outside of class for each hour of class time. That means you**

**should be prepared to spend at least 10 hours per week studying.** Homework problems are similar to the problems which will appear on course examinations and the final exam.

**Quizzes:** There is a chapter quiz after each chapter to be completed through WebAssign. There is a maximum of 3 submissions for each quiz, and the last attempt will be the grade for the quiz.

**Exams:** There will be four in-class exams during the semester. All exams after the first one will be on a cumulative basis. All examinations will be closed book and will be taken during a scheduled class period. **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.** If you are unable to attend class the date of the test, you will need to make arrangements with the instructor to take the exam early.

**Project-Based Labs:** The project-based labs will be made available by your instructor. These projects are designed to allow the student to examine “real-world” applications using technology as a tool. Your instructor is required to assign at least 2 specific projects. Projects will include some group work. Your instructor will assign groups.

**General Education ePortfolio:** Each student in General Education courses at SLCC will maintain a General Education ePortfolio. Instructors in every Gen Ed course will ask you to put at least one Project-Based Lab assignment from the course into your ePortfolio, and accompany it with reflective writing. It is a requirement in this class for you to add 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 including a Student ePortfolio Handbook, video tutorials for each ePortfolio platform, classes, locations and times of free workshops and other in-person help. For detailed information visit <http://www.slcc.edu/gened/eportfolio>.

**Final Exam:** Our Final Exam will be given Tuesday May 6<sup>th</sup> from 8:00pm-10:00pm . 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.

**Additional Assignments:** Your instructor, throughout the course, may assign additional brief written assignments, group exercises, or computer projects.

**Grading:** The following standardized breakdown of weights used in the calculation of the course grade is a Math department policy.

Assignment	Percent of final grade	A	100-93%	C	76-73%
Exams	40%	A-	92-90%	C-	72-70%
Homework/Projects/Quizzes	20% / 10% / 5%	B+	89-87%	D+	69-67%
Final Exam	25%	B	86-83%	D	66-63%
		B-	82-80%	D-	62-60%

**Permanent Folder:** To minimize the possibility of computer or human error all graded homework, bonus quizzes, and exams should be kept in a folder until you have received your final grade for the course.

**Withdrawal Policy:** Students may drop from the course through Feb 3<sup>rd</sup> 2014. Students may withdraw from the course through March 24<sup>th</sup> 2014. No withdrawals will be approved after that date.

**Incomplete:** A grade of incomplete is given under extreme, documented, circumstances and you must be doing passing work.

**Posting of Grades:** Grades will **not** be posted except through the Internet.

**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](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.

**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](mailto:linda.bennett@slcc.edu)"*

**Extra Help:** Precalculus is a challenging course, but the methods for success are clear: read the text, participate in class, and 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 Math Lab (LIB 042C), or at the Learning Centers (phone 957-4172) at Redwood TB-213, South N308, and Jordan Rm. 102. A list of private tutors who may be hired is available in the Learning Centers.

**Tips for Student Success:** Please visit the math department web site at: <http://active.slcc.edu/math/>. On the left of the screen, click on Tips for Student Success. Ask your instructor about workshops, tutoring, software, videos, and web sites that could help you succeed in MATH 1080. Finally, read and be aware of the regulations set forth in the current Schedule and the SLCC college catalog. Please see your instructor ASAP about any problems that are affecting your work in this class.

**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