



## Math Department

Math 1060      Trigonometry      Summer 2013  
Syllabus

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## **1 College Wide Learning Outcomes**

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 literacy
- Developing the knowledge and skills to be civically engaged
- Thinking critically
- Communicating effectively

## **2 Math Department Webpage**

The SLCC Math homepage is located at <http://www.slcc.edu/math/>. This site contains many resources for students. Copies of this syllabus, homework exercises, class schedule, computer projects, and other items relating to class projects can be accessed from the math homepage. You can also find the Math Department Policies that apply to all Math courses at <http://www.slcc.edu/math/policies.aspx>.

## **3 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 students 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 ones 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.

## 4 Course Objectives

This course is intended to prepare students for a comprehensive course in calculus by teaching concepts and facts required for a major in math, physics, chemistry, engineering, and computer science, as well as many of the life sciences. The course presents trigonometric functions, polar functions, trigonometric equations, and solutions of acute triangles, right triangles, and oblique triangles. Polar coordinates, complex numbers, parametric equations, and vectors are also introduced. Students are required to know basic trigonometric facts such as the sine, cosine, and tangent values of special angles without using a calculator. Students are also required to know the fundamental trigonometric identities without looking them up.

## 5 Prerequisite

Within the last year, you must have completed a college algebra course, such as Math 1050, with a grade of C or better, or a CPT score of at least 70 on the college algebra section. If you do not have documentation verifying one of these prerequisites, you will be advised to register for and complete Math 1050 here at the College.

## 6 Textbook

*Trigonometry, Third Edition*, by Mark Dugopolski, Pearson/Addison Wesley.

## 7 Class Schedule

Please go to <http://slccmathdepartment.yolasite.com/math-1060-su-13.php> to find the class schedule. 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.

## 8 Calculators

Calculators are used to demonstrate concepts and facilitate problems. They are not a substitute for learning the concepts. Basic facts, such as the exact value of  $\sin\left(\frac{\pi}{4}\right) = \frac{\sqrt{2}}{2}$ , are as important to know without any aid, as it is to know  $3.55 \times 10 = 35.5$  just by looking at it. Students will graph basic trigonometric functions without the use of a calculator. Questions on exams will test basic facts that must be memorized, as well as how to use a calculator to help answer questions with intensive arithmetic steps or for approximations

in applied problems. Calculator use will be restricted on some exams or portions of exams. Departmental test objectives that indicate appropriate use of calculators are posted at the Math department website, <http://slccmathdepartment.yolasite.com>. A portion of the final exam must be completed without the use of any calculator. Success in future math classes will require these skills and knowledge.

Calculators with a computer algebra system will not be allowed on any 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, a cell phone and any other communication device that can connect to the internet may not be used on any quizzes, exams or on the final exam.

## 9 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.

## 10 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 to your ePortfolio, and this syllabus details the assignments and reflections you are to include. 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/slceport>
- <http://slceportfolio.wordpress.com>
- <http://slceportfolio.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](mailto:eportfolio@slcc.edu).

## 11 Projects

These projects are designed to allow the student to examine real-world and/or historical applications using trigonometry as a tool. Projects may also be designed to help students learn important mathematical communication skills. Announcements regarding projects and their due dates will be made in class. One of these projects will be a signature assignment that you will be required to post in your e-portfolio.

## 12 Homework/Participation/Other

A listing of exercises assigned for home study is posted on the web at <http://slccmathdepartment.yolasite.com/math-1060-su-13.php>. These exercises are considered the minimum required for a sufficient understanding of the material. Students are encouraged to work more exercises than those assigned. Some instructors may require online homework. Homework practice problems are similar to the problems that will be on quizzes, midterms and the final exam. You may be asked to turn in some written homework based on these types of problems. 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.

Other assignments in this category may include in class quizzes and/or group work. You may be asked to participate in class by working selected homework problems.

## 13 Exams

There will be three midterm exams during the semester and a departmental final exam. 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. The final exam is a standardized departmental exam, which will account for at least 25% of your grade. A PORTION OF THE FINAL EXAM MUST BE COMPLETED WITHOUT THE USE OF A CALCULATOR. It is an SLCC Math Department policy that students attaining a score of less than 60% on the final exam shall receive a grade no higher than "D" for the course. Past final exams are available at <http://slccmathdepartment.yolasite.com/past-final-exams.php>.

See the final exam schedule for this semester to verify the time of your exam.

## 14 Grading

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

- Midterm Examinations: at least 40% of the course grade
- Final Examination: at least 25% of the course grade
- Quizzes, homework, projects, participation, etc.: at least 10% but no more than 30% of the course grade.

Grading Scale

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Minimum %	93	90	87	83	80	77	73	70	67	63	60	0

It is an SLCC Math Department policy that students attaining score of less than 60% on the final exam shall receive a grade no higher than "D" for the course.

In case of human or computer error, we recommend that students keep all homework and exams in a folder until they have received a grade for the course.

## 15 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, test dates and assignment due dates.

## 16 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 40 and 41 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 18 and 19.

## 17 Drop and Withdrawal Policy

Students who desire to drop or withdraw the class must do so by themselves before the deadlines stated at <http://www.slcc.edu/academiccalendar/index.aspx>.

Telling the instructor that you are withdrawing from the class is insufficient. You must withdraw from the class through the Registration office. No withdrawals will be approved after that date.

## 18 Extra Help

Trigonometry is a challenging course, but the methods for success are simple: 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 Learning Centers (phone 801-957-4172) at Redwood TB-213 and LIB 044, South N308 (phone 801-957-3261), and Jordan HTB 102 (phone 801-957-2852). 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).

## 19 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.

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

**Academic Advisor:** Evelyynn O'Dell

**Phone:** 801-957-4858

**E-mail:** Evelyynn.ODell@slcc.edu