

Math 1 – Pre-calculus
Peralta Class Code 44826

Fall 2014

Berkeley City College

Class Site: Online at <http://www.pearsonmylabandmastering.com/>

CourseID: pernell64506

Instructor: Kelly Pernel

Office Hours: at BCC, Rm 353, Mon & Tue 1:30 – 3pm,
Thu 1:30 – 2:30pm, Online in Moodle Chat Tue 7 – 8pm

Contact Info: kpernell@peralta.edu

Faculty Web site: <http://www.berkeleycitycollege.edu/wp/kpernell>

Moodle site: <http://eperalta.org/spring2014/>

Textbook and Required Materials

Bare minimum required course materials: Internet access, MyMathLab access code, scientific calculator.

To access the course site, you will need to purchase a MyMathLab access code. You can purchase an access code during the student registration process at the course site <http://www.pearsonmylabandmastering.com>. This is the fastest, most efficient way to purchase access.

Alternatively, you may purchase an access code from the campus bookstore or search online at various outlets like amazon.com for the following:

MyMathLab -- Standalone Access Card, 4/E, Pearson Education
ISBN-10: 032119991X • ISBN-13: 9780321199911

Sometimes you can find a less expensive price with another online vendor. However, ordering from a third party means that you must wait for shipping. Therefore, I *strongly* advise you purchase access right away through the online registration.

You are *not* required to purchase a hard copy of the textbook. However, if you would like to purchase a hard copy of the text, it is much more economical to purchase the book with access code combination. Here is the book information:

Precalculus, Ninth Edition
by Sullivan
Pearson Education, Prentice Hall
ISBN-13: 978-0-321-71683-5

Topics from Chapters 1 – 11 will be covered.

MyMathLab online contains an electronic version of the textbook used to present the course material. Students can access the e-textbook by clicking on the Chapter Contents button on the left side of the MyMathLab class site.

You will need a non-graphing scientific calculator that can do trigonometric and logarithmic calculations.

Online Student Registration

On my faculty website and the class Moodle site, I posted a PDF of general instructions for enrolling in the online class site at <http://www.pearsonmylabandmastering.com/>. During the student registration process you will need the CourseID for the class: **Pernell64506**, a MyMathLab access code or credit card to purchase one during registration, and the zip code of Berkeley City College – 94704.

Please contact me as soon as possible if you have issues signing into the class site. I strongly encourage you to establish access to the course site no later than the first week. Your first homework assignments are due September 16th just in case you need a few days to establish access.

Some have noted errors accessing the textbook from within the Homework problems. On most browsers, I find that accessing the e-textbook from the Chapter Contents section of the class site to be the best way to avoid technical errors.

Course Schedule

To be successful in this course, most of you should spend about 15 hours per week studying the e-textbook, doing interactive media activities, and completing online homework exercises, quizzes, and tests. Some of you may need *more* or *less* time to do well. Please determine what type of mathematics learner you are and study accordingly.

On the class site, please go to the Homework section and click the Show All button to bring up all of the assignments you must complete in the course. Please note the due dates listed on the left of each assignment. Please also note that approximately 5-6 assignments (homework, quizzes, and sometimes tests) are due each week. You will be able to work on homework after due dates but not on quizzes or tests. Please plan ahead and check due dates regularly.

Each chapter is divided into sections. For each section assigned in homework, I encourage you to:

1- First read the eTextbook. Click on the Chapter Contents area and navigate to the section you want to read. Click on view Multimedia eText link.

a- Take notes. Write down major formulas and processes.

b- Keep notes organized in a binder or three-ring notebook.

2- Do the homework for the section. Click on the Homework area and navigate to the section you want to complete. There are video lectures and PowerPoint notes inside most homework assignments. Some assignments also have interactive media activities. Watch the videos, browse the PowerPoint notes, and check out the media activities. Then do the homework exercises.

a- Do not do your homework on scratch paper. Do your homework as if you would have to turn it in. Practice your mathematics writing. Keep the calculations you do on homework neatly organized in a binder with work divided by chapter, and perhaps section. You will find it helpful to refer back to homework problems when studying for timed quizzes and tests.

3- Repeat steps 1 and 2 for all the sections in a chapter.

4- Take the Review Quiz for the section.

a- Before starting a quiz, review your homework. Have paper, pencil, and scientific calculator ready before you begin. You have 75 minutes to complete each quiz. Most quizzes do not take 75 minutes to complete. Some just take a few minutes; some take longer. Most have estimated completion times no longer than 45 minutes.

b- After each quiz, take time to review your answers. You can retake each quiz up to two more times. The system will automatically save your highest score.

c- You are not required to take all three chances. By the end of the course, just make sure you take each quiz at least once.

5- Take the Chapter Test.

a- Before taking a test, review the chapter quiz. Review quizzes are very similar to chapter tests.

b- Have paper, pencil, and scientific calculator ready before starting the exam. You have 90 minutes to complete each exam. You are expected to complete all problems and submit the exam in one session.

c- You must submit your written work on tests; your written work on each test makes up 20% of your score. On separate notebook paper, please write the steps you take to arrive at your answers. Make sure to organize your work and label each problem.

I will stay in contact with you via the Announcement section of the site, my faculty web site, Moodle, and email. The announcements I post on the MyMathLab site should appear on the Course Home page.

Tip: Study a little bit each day. Never go more than three days without doing any work in this course. If you stop working consistently, you will quickly fall behind and may not be able to finish the course in time.

Grading Policy

A: 90 – 100%; B: 80 – 89%; C: 70 – 79%; D: 60 – 69%; F: 0 – 59%

Your course grade is based on in-class exams, homework verification activities, and participation. The percentage breakdown for each component is as follows:

Homework	30%
Quizzes	20%
Tests	25%
Final Exam	25%

I will drop one quiz and one test before calculating your course grade. The lowest scores of each will be dropped.

Homework

Homework is worth 30% of your course grade. Please note the due dates for each assignment.

You are allowed to work on every homework assignment after the due date. However, a penalty of 5% will be deducted from assignments completed after their due dates.

Chapter exam questions will be similar to homework problems.

Each homework assignment contains links to a lecture video and a PowerPoint presentation. Some homework assignments contain other interactive media activities to aide your learning. You earn one point of credit for each media link you open in a homework assignment. If you fall behind, you can improve your

course grade very quickly by watching the videos, opening and reading the powerpoint presentations, and opening the interactive activities.

Tip: *Save and organize your written calculations on paper in a binder or ringed notebook. Organized notes and homework assignments will help you study and prepare for quizzes and exams.*

If you need help, please use the *Show Me an Example* and *Help me Solve It* buttons inside the Homework problems when available. You will get sample problems and all written steps that will help you solve the problem you are working on. You can also email me if you have specific questions. I encourage you to work with classmates on homework. The Learning Resources Center (room 112) at BCC is a great place to meet with tutors and other students in the class. I also encourage you to visit me in office hours if you are local and need some assistance.

Quizzes

Quizzes are worth 20% of your course grade. For each quiz, you are allowed three chances to earn your highest score. The highest score from each quiz will be used to determine your quiz grade.

You are not required to take a quiz three times. You just need to take each quiz at least once. You have the option of taking the quiz up to two more times to improve your score.

You will *not* be permitted to take a quiz after the due date.

You will be able to pause a quiz, save your work, and return to it later. You will not be able to return to the problems you saved before pausing the quiz. Be sure to finish any problem you view while in the quiz before saving for later. Make sure you have answered all problems before you SUBMIT a quiz.

You are given 75 minutes to complete each quiz.

Tip: *Take notes and save the work you do on quizzes. They are very similar to the tests and will prepare you well.*

Tests

Chapter tests are worth 25% of your course grade.

Please note that before you can take a chapter test, you must make at least one attempt on its online chapter quiz. The chapter quizzes are very similar to the chapter tests, so they will prepare you well for the tests.

You are given 90 minutes to complete each chapter-test. Unlike quizzes, you are not permitted to save your work and return to the test later. You must complete all problems on the test once you start. So, please be prepared to take the test before you start, and give yourself the full 90 minutes to finish it if you need it.

You are only allowed to take chapter tests ONCE. Please review the quizzes to prepare well for each chapter test.

WARNING: If you leave the test (close the window or go somewhere else online) before pressing the Submit button, you will be blocked from finishing the test. You will have to email me to restore your access. You will have to explain why you lost access. Please avoid getting locked out of the tests. I will not allow repeated requests to re-open tests.

You will not be able take a chapter test after its due date.

REQUIRED PAPER SUBMISSION:

While taking online tests, write down your calculations and algebraic steps on separate notebook paper; number each problem. When finished, review your written work and make necessary corrections and/or edits. Write your name and Chapter test number on all pages. Save all test work in a separate binder.

Your written work on tests is worth 20% of your chapter test score, and 5% of your overall course grade. Please submit your written work on all chapters in one collection at the end of the term.

All written work on Exams is due Thursday, December 11th.

Where to submit your written work:

Online in the Moodle site at eperalta.org/fall2014

In person during my office hours.

Drop off outside my office, Room 353, BCC

Faculty mailbox, 1st floor at BCC

US Mail: Berkeley City College, Attn: Kelly Pernell

accept your written work submissions all at Save your work in a separate binder. Use your work as a study guide for the Final Exam.

Final Exam

The Final Exam is worth 25% of your course grade. It is a comprehensive exam that covers all topics in the course.

This exam will be held in person on Wednesday, December 10, 2014. However, this exam must be proctored.

For students local to Berkeley City College, I will schedule an exam time and location at BCC on the last day of the course, Wednesday, December 10, 2014. I will make an announcement to the class when the location and time have been set. Please bring a Photo ID with you to the exam.

For students outside the area, please locate a test proctoring center in your area. Send me the contact info of the official test proctor so we can make

arrangements for the center to receive your exam. Local libraries, community colleges, and state universities often offer testing proctoring services.

Student Learning Outcomes

Upon completion of this course, students will:

1. Formulate real world applications using mathematical techniques.
2. Solve rational and absolute value inequalities.
3. Solve polynomial, rational, exponential, logarithmic, and trigonometric functions.
4. Graph polynomial, rational, exponential, logarithmic, and trigonometric functions.
5. Determine inverse functions.
6. Solve simultaneous linear and nonlinear equations.
7. Graph relations using Cartesian and Polar coordinates.

Justification for the Course:

Satisfies the General Education and Analytical Thinking requirement for Associate Degrees. Provides foundation for more advanced study in mathematics and related fields. Satisfies the Quantitative Reasoning component required for transfer to UC, CSUC, and some independent four-year institutions. Acceptable for credit: CSU, UC.