Math 171/171a Pre-Calculus Algebra SE-1
(Fall 2009, MW 6 – 7:15pm, Lab on-line)

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Office Hours:
12:30 to 1:30 pm and 3 to 3:30 pm Monday through Thursday
5 to 6 pm Monday and Wednesday
3:30 to 4 p m Tuesday and Thursday
At other times by appointment

At SCC Math help is available

- π At the Learning Assistance Center (LAC), there are tutors. See the center for the hours.
- π Personal tutors are also available. Check with Laurie Butler (ext. 420) in student support services.

FEATURES

This class uses the multimedia system of **Educosoft ™** to web-enhance – almost all of your assignments will be completed on-line at www.educosoft.com. You must have access to a working computer and hi-speed internet. On-line you will do **tutorials, homework and quizzes** based on the sections we cover in class. This will comprise your lab grade. Tests will be done on the computer in school. You should allow up to 90 minutes completing a test. After every lecture, you should go through the tutorials for that section, do the homework, and take the quiz. Thus you must have the time and discipline to put about 6 to 8 hours of study and computer time per week to keep up with the course work. Projects will also be part of your lab grade and will be based on real world situations. Even though your assignments are mainly on-line, you are expected to keep a note book showing your work. If there are questions about the validity of computer answers on homework and quizzes, your answer will be accepted (if correct) only if you have the work to back it up.

Prerequisites:
In order to take this class you must have the following prerequisites: College Algebra OR satisfactory test scores. You may also be asked to take a CLM test for data collection purposes. If you are not sure if you qualify to take this class, please see me.

Text:
Pre-Calculus 5th edition by
Man M. Sharma, Ray Treadway, Ravinder Kumar, Jagmohan Kapoor
© 2005 Educo International Inc. ISBN 978 1-888469-94-3

A graphing calculator (preferably the TI-83 or TI-84) is required.

Attendance Policy
You are expected to attend all classes. However you will be allowed 6 absences without penalty. After that you will lose 3% per absence from your final grade. After a total of 16 absences (this is equivalent to 8 weeks of the semester!) you will receive an F in the class. Regardless, if you cannot attend class, remember to continually check on-line for new assignments and quizzes, so you can keep up with the class. See tentative schedule at the end.

To register for the on-line assignments you need to go to: www.educosoft.com under the "Higher Education" tab and then click on **"register now".** In order to register you need a text book with a code and a valid email address. If you have an old text book you can buy the pass code on line for around $50.

SCC EMAIL
All SCC students have an SCC email account. To find out how to access it go to: https://my.southwesterncc.edu/web/mycampus/home

E-MAIL
At Educosoft there is an internal email system and an announcement page. Check the announcement page and your email often for important directions and the latest assignments.

Course Outline:

In this course we will study in depth polynomials, rational, exponential and logarithmic functions. We will also look at variation, conic sections and some linear algebra. We will also practice applications of these functions. This corresponds to chapters 2 through 5 and 9 and 10.

Grading:

• Tutorials	5%
• Homework:	5 %
• Quizzes:	15 %
• Projects:	10%
• Tests:	35%
• Midterm:	10%
• Final*:	20 %
• Total	100%

* Having an A or B average going into the final test exempts you from taking it. All others must write the final exam. If you take the final (and pass it) and score better than one of your previous tests then your final test score will be used to replace that score as well.

The lab grade for this course (Mat 171A) will be an average of your tutorial homework, quiz, and project grade.

Course Objectives:

- To promote mathematical skills wherein a student can choose appropriate models for analysis and prediction.
- To promote logical thinking including deductive reasoning.
- To adequately prepare the student for the study of calculus.
- To enable the student to use applications involving rational, polynomial, exponential, logarithmic functions plus conic sections and matrices.
- To enable the student to use algebraic manipulative techniques to solve mathematical equations and inequalities involving the above concepts.
- To enable the student to become proficient in the use of technology to analyze and solve real world mathematical problems.

It is your responsibility to do the on-line assignments within the time period allotted. They will expire automatically at midnight EST on the due date.

When working with the internet and computers, you should expect glitches, thus DO NOT wait until the due date to do your assignments. Projects are expected to be handed in on time. If a project is late there will be a penalty.

If a project is 2 days late 10% will be deducted from your score. If 4 days late 20% will be deducted. If 8 days late 40% will be deducted. If over 8 days late, then don't bother to hand it in…...

IN CLASS PLEASE TURN OFF ALL ELECTRONIC DEVICES.

TESTING POLICIES

- If a major emergency happens to you on the day of the test, you must contact me (by email, telephone or both) within 8 hours of the scheduled test; otherwise there are NO MAKE UPS ON TESTS.
- All tests must be proctored.
- When you take a test, you should have be logged into www.educosoft.com, and have only your calculator, pencils, pens and blank paper. All other books and note books should be put aside. However, be sure to write down all your questions and answers showing your work. If there is a discrepancy between you and the computer and you have no work to prove your answer, you may not receive any credit for the answer if you are correct.
- **ANYONE CAUGHT CHEATING ON ANY TEST WILL RECEIVE AN AUTOMATIC F for a final grade.**
- You may collaborate on projects, but the final project is expected to be your own work. Anyone caught with duplicated or copied projects will receive an automatic F on their project.

Grading Scale:

93 – 100 A 85 – 92 B 77 – 84 C 70 – 76 D Below 70 F

Learning Disabilities:

If you have a DOCUMENTED disability and think you will need some form of reasonable classroom accommodations to help you achieve your full academic potential, please see the disability office (student support services) located on the lower level of Oaks Hall. If you will not be needing classroom modifications, you are not required to disclose your disability.

"The end of education is character."

The syllabus is subject to change at the discretion of the instructor.

Math 171/171A Fall 2009 tentative schedule

WEEK/DATE	ASSIGNMENT SCHEDULE
Week 1, Aug. 17h to 23th	Introduction, Syllabus, Register in Educosoft. Start tutorials, homework and quizzes on Chapter 2 sections 2.2, 2.3 and 2.4
Week 2, Aug. 24th to 30th	Finish chapter 2 on sections 2.5 and 2.6 and then start chapter 3 section 3.1.
Week 3, Aug 31st to Sept. 6th	Chapter 3 on equations, sections 3.2, 3.3, 3.4 and 3.5
Week 4, Sept 7th to Sept 13th	No class on Monday Sept. 7th. Finish off chapter 3, sections 3.6 and 3.7
Week 5,Sept 14th to Sept. 20th	Review and Test on chapters 2 and 3. First project assigned
Week 6, Sept 21st to Sep 27th	Start chapter 4, sections 4.1, 4.2 and 4.3
Week 7,Sept 28th to Oct 4th	Finish off chapter 4 sections 4.5 and 4.6. Start chapter 5, sections 5.1 and 5.2.
Week 8, Oct 5th to Oct 11th	Chapter 5, sections 5.2 and 5.3. Midterm break from Oct. 8th to 10th . No class on Oct. 7th. There will be a test and midterm on chapter 5 after break.
Week 9, Oct. 12th to Oct. 18th	Finish off chapter 5, sections 5.5 and 5.6. Take test on chapters 4 and 5. Prepare for midterm.
Week 10, Oct. 19th to Oct. 25th	Prepare and take midterm. First project due.
Week 11, Oct. 25th to Nov. 1st	Start chapter 9, sections 9.1, 9.2, 9.3
Week 12, Nov 2nd Nov. 8th	Nov 3rd is last day to withdraw. Finish off chapter 9 sections 9.4, 9.5. Second project assigned.
Week 13, Nov 9th Nov. 15th	Review and test on chapter 9
Week 14, Nov 16th Nov. 22nd	Start chapter 10, sections 10.1, 10.2, 10.3
Week 15, Nov 23rd Nov. 29th	Thanksgiving break is from 25th to 28th. we will only have class on Monday where we will look at section 10.4
Week 16, Nov 30th Dec. 6th	Project 2 due. Look at section 10.5. Review and take test on chapter 10.
Week 17 Final week Dec. 7th to Dec 14th	Review for final and take final exam.