

Math 161 COLLEGE ALGEBRA Fall 2009

Section SD-1

Instructor: Rudranath Beharrysingh, Office: Oaks 103B

rudranath@southwesterncc.edu 586-4091 (or 1-800-447-4091) ext. 282

Web-Site: <http://www.southwesterncc.edu/rudy/index.htm>

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 4pm 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™ for web-enhancing – that is to tutor and assess. 90% of your assignments and tests 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. Tests will be done on the computer in school. You should allow up to 90 minutes to complete 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 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 had math 060 and 080 (intermediate algebra) or satisfactory test scores (CPT algebra of 76 or above). If you are not sure if you qualify to take this class, please see me.

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.

Text:

COLLEGE ALGEBRA, 5th edition.

Man M. Sharma, 2008; ISBN: 1-888 469-85-1

A graphing calculator (preferably the TI-83 or TI-84) is **required** for this class.

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 Objectives:

- II To prepare students for work in industry and to prepare students for college trigonometry and pre-calculus.
 - II To enhance the student’s understanding of functions using algebraic, numerical and graphical methods.
 - II To expose students to functional models.
 - II To promote logical thinking and deductive reasoning.
 - II To promote collaborative and independent working skills.
- This course is a prerequisite to math 162 (college trigonometry).

Course Outline:

In this class we develop algebraic skills and apply these skills to solving real-world problems. We also learn how to integrate technology to derive solutions. Good reading and comprehension skills are necessary to understand many of the problems we attempt to solve in this class. The topics we will look at are:

Functions – Graphical and Tabular; Linear, Polynomial, Rational, Exponential and Logarithmic Functions; Regression; Optimization; Systems of Equations.

- This corresponds to chapters all or part of chapters 2 through 7.

Grading:

• Homework:	10 points
• Quizzes:	15 points
• Projects:	10 points
• Tests:	45 points
• <u>Final:</u>	<u>20 points</u>
• Total	100 points

** 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.*

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 KEEP ALL ELECTRONIC DEVICES TURNED OFF.

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 at SCC.
- 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 do not need classroom modifications, you are not required to disclose your disability.

“Where there is a will there is a way.”

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

WEEK/DATE	ASSIGNMENT SCHEDULE
Week 1, Aug. 17^h to 23th	Introduction, Syllabus, Register in Educosoft. Start tutorials, homework and quizzes on Chapter 2 sections 2.2 and 2.3
Week 2, Aug. 24th to 30th	Chapter 2 sections 2.4, 2.5 and 2.6 (Note, some sections have chapter 1 prerequisites)
Week 3, Aug 31st to Sept. 6th	Review and test on chapter 2
Week 4, Sept 7th to Sept 13th	No class on Monday Sept. 7th. Start chapter 3, sections 3.1 and 3.2
Week 5, Sept 14th to Sept. 20th	First project assigned. Do sections 3.3 and 3.4
Week 6, Sept 21st to Sep 27th	Section 3.5, 3.6 and 6.1
Week 7, Sept 28th to Oct 4th	Review and Test on chapter 3 and 6.1
Week 8, Oct 5th to Oct 11th	Start chapter 4, sections 4.1 and 4.2. Fall break is October 8th to 10th. No class Oct. 7th.
Week 9, Oct. 12th to Oct. 18th	Skip to chapter 7, sections 7.1 and 7.2, then chapter 4 section 4.3. First project due.
Week 10, Oct. 19th to Oct. 25th	Sections 4.4, 4.5 and 4.6.
Week 11, Oct. 25th to Nov. 1st	Review and Test on chapters 4 and 7.1 and 7.2. Second project assigned.
Week 12, Nov 2nd Nov. 8th	Chapter 5, sections 5.1 and 5.2. Nov 3rd is last day to withdraw.
Week 13, Nov 9th Nov. 15th	Sections 5.3, 5.4 and 5.5
Week 14, Nov 16th Nov. 22nd	5.6 and review for test.
Week 15, Nov 23rd Nov. 29th	Thanksgiving break is from 25th to 28th. Test on chapter 5 on Monday.
Week 16, Nov 30th Dec. 6th	Project 2 due. Extra sections. Start reviewing for final exam.
Week 17 Final week Dec. 7th to Dec 14th	Final exam week.