

Instructor: Anne Hauscarriague**E-mail:** hauscarriague_anne@sccollege.edu**Office:** U84**Phone:** 714-628-4919**Website:** www.sccollege.edu/ahauscarriague**Office Hours:** Mon - Thur 9:30 – 10:30 (U-84)
Mon & Wed 1:30 – 2:00 (U-84)**Math Study Hall (MaSH) (U80) Hours:** _____

Math Study Hall (MaSH): As a part of this class you are automatically enrolled in MaSH. The MaSH is a service provided by SCC that gives you a chance to supplement learning done in the classroom. There will always be a math faculty member, instructional aides and student workers on duty to assist you when needed. There are also computers where you can access mathematical software or do work for your on-line math class. This class has a lab requirement. To receive credit you **must** complete at least 16 hours (1 hour per week) and 9 lab activities during the semester in the Math Study Hall. Lab activities will include Directed Learning Activities (DLAs), PLATO modules and/or math videos. Failure to participate before the *second* week of the semester will result in students being **dropped** from the class. Attendance is tracked through the sign-in computer. When you enter MaSH, you will slide your student ID card or type in your ID number at the sign-in computer (no SSN). When you leave, you will sign out the same way. Signing out is very important. You may lose hours you put in if you do not sign in and out appropriately.

Required Text: Intermediate Algebra, by Michael Sullivan III and Katherine Struve (Second Ed.)

Course Description, Purpose and SLOs: The purpose of this course is to strengthen your arithmetic skills with emphases on problem-solving and development of critical thinking skills. Topics covered include functions, systems of equations, inequalities, exponents and radicals, quadratic functions, complex numbers, and exponential and logarithmic functions. As a result of completing Math 81 students will be able to:

1. Read, define and apply algebraic and functional vocabulary and symbols
2. Evaluate, perform algebraic operations and solve equations involving linear, rational, radical, quadratic, exponential and logarithmic expressions
3. Set up and solve word problems involving linear, quadratic, rational, radical, exponential and logarithmic expressions, or systems of linear equations (2 or 3 variables)
4. Graph linear, quadratic, absolute value, power, exponential and logarithmic functions, and apply graphing transformations.

Prerequisite: Successful completion of Math 060 or equivalent skills (as measured by a satisfactory score on the Math Level 2 exam in combination with an Elementary Algebra course).

Cell Phone Policy: All cell phones and electronic devices must be turned “OFF” (not on “silent,” not on “vibrate,” not “on”) during the entire class period. I truly believe electronic devices are a distraction to the instructor, to other students, and to the user. My goal is to create the most effective environment conducive to learning. If there is an emergency situation, you must inform me before class begins. If you are addicted to texting, find another class immediately.

Student Conduct: All students are responsible for maintaining appropriate conduct while enrolled in classes through the Rancho Santiago Community College District (RSCCD). Guidelines for student conduct are set forth in the RSCCD “Standards of Student Conduct” policy. Detailed information regarding student discipline and rights within the policy is available in the college catalog and student handbook. Students who violate the Standards of Conduct are subject to disciplinary action which includes, but is not limited to, removal from class, suspension and expulsion. This includes excessive talking with your peers and **any** cell phone usage, including texting.

Attendance: Attend every class! If you must miss class, make arrangements to get class notes and assignments from another student. Attendance will be taken at each class meeting. Perfect attendance and being on time will bring up your grade 1%. Being absent, late or leaving early more than two times will lower your grade 1%. A student may be dropped due to excessive absences (4 or more). Please let me know if an emergency occurs which affects your attendance.

Important Dates: If you decide to drop this class and stop attending, it is your responsibility to do so. The last day to drop with a fee refund, the last day to drop and receive a "W" grade, the last day to submit a Pass/No Pass application are listed on WebAdvisor. **These dates are strictly adhered to**, so check WebAdvisor periodically to make sure you don't miss any deadlines.

Accommodations for Disabilities: Students with verifiable disabilities who want to request academic accommodations are responsible for notifying me and Disabled Students Programs and Service (DSPS) as early as possible in the semester. To arrange for accommodations, contact DSPS at (714) 628-4863, (714) 639-9742 (TTY) or stop by the DSPS Center in E-105.

Homework: In any math course, it is essential to get "hands on" experience with the concepts. Watching me do algebra is easy; you need to do it yourself in order to really learn the material. One important way to do this is by doing your homework. Plan to spend at least two hours per one hour of class on your homework. Keep your homework organized and bring it to class each day. You may want to purchase a loose-leaf notebook to use for this class. Homework is due by the next class meeting.

Homework can be done using MyMathLab software or exercises from the book as listed below. It will be graded on the percentage of exercises that are answered correctly and will be factored into your final grade. On-line homework does not have to be done in one sitting; you can return to do it later. Homework must be completed before 10:30 am by the next class meeting. You will be able to access homework on-line past the due date but the last day to complete any homework for credit is May 15.

There will be no exceptions regarding the due date unless 95% of all homework assignments are completed. For on-line homework, you must do the work on paper and enter the answers into the software system. Anything turned in to me is to be done in **pencil** on full-sized notebook paper or graph paper. The assigned problems are the minimum you need to work. **SHOW YOUR WORK!!!** I already have the answers. Come to class or office hours prepared to ask questions. If you missed the majority of the problems, you need to re-learn the material, get tutoring and try again!

Tests and Quizzes:

- A) There will be weekly mini quizzes and homework checks. For homework checks, you will be asked to put away your text and take out certain assignments. Then you will be required to do up to 4 problems from these assignments. These will be graded and counted as your homework/quiz grade. They are only given to students present in class. There are no make-up quizzes for absent or late students.
- B) There will be four 100-point tests and one 50-point quest. Dates are on the attached schedule; however, the dates may change if the instructor finds it necessary and such changes will be announced in advance in class. Tests are comprehensive.
- C) Tests must be taken on designated days; no make-ups will be given! If an emergency occurs, you must **call me** before the test to tell me that you will be absent. A **one-time** test replacement grade may be used if a test is missed, **only if** I am notified in advance, by substituting the percentage from the final exam.
- D) To assist you in preparing for tests, you will have an opportunity to work in MaSH. You will be required to do 9 activities within the 16 mandatory hours. The first two activities are due **Feb 14**, the next 2 on **Mar 6**, the next 3 on **Apr 12**, and the last 2 on **May 3**. For *extra credit*, you must meet every deadline. *If and only if* these deadlines are met, you may be eligible for extra points. A list of these activities will be provided.
- E) A comprehensive final exam will be given. It is worth 200 points. (Thursday, May 17 at 10:30 am in this classroom). A scientific or graphing calculator may be used. The final is worth 20-30% of your grade so take the time to prepare!

Supplies: A scientific calculator is required. A graphing calculator is permitted with the exception of the TI-89 or TI-92. You will **not** be allowed to use your cell phone as a calculator on quizzes or tests. You will also need a colored pen or pencil, graph paper, and you may want to acquire a 1.5 or 2 inch loose-leaf binder as well as a stapler for stapling homework together.

Grades:

The **course grade** will be based on:

Tests	50-60%
Quizzes/MaSH Activities	10-15%
Homework/Handouts	8-10%
Final exam	20-30%

The **grading scale** will be:

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

Student Honesty: There will be several opportunities for collaborative activities in this class; however, collaborating on class tests or quizzes will not be tolerated. Anyone seeking help from or providing assistance to another student on a test or quiz will receive a zero. Homework is expected to be individual work.

Test Rules: *No looking at another student's desk or paper*
No sharing of supplies including calculators
*No talking **or using cell phones***

By remaining enrolled, students hereby agree that they will be held responsible for items described in this overview and in the schedule.

How to survive this course:

- A) Keep this overview and notify me of any trouble you are having in this course.
- B) You are required to read all sections of the text to supplement the lecture because it is impossible to cover all the material in class. Class lectures make more sense if you have read the material before the date on the schedule. Plan also to re-read each section after it is discussed in class.
- C) Give yourself plenty of time outside of class to review your notes, read the text, work homework problems and study. If possible, set up a study group of 1-5 other students. Studying with others can help you with questions you may find difficult and force you to communicate solutions to other students. The best way to learn a subject is to teach it.
- D) Focus on vocabulary!! Don't get behind. Keep a positive attitude. Get help when you need it.

Names & phone numbers of 3 other classmates to call if you need notes:

1. _____

2. _____

3. _____

SUCCESSFUL STUDENTING

Many students do not know what a good college student is or what a good college student does. For one thing, good students need not be the individuals with A's and B's.

Characteristics of a successful student

1. They **turn off their cell phone** and attend class – regularly and on time. If they miss a lecture they make sure they get all assignments and with the help of their classmates, understand specifically what was covered in class.
2. They demonstrate that they care about their grades and are willing to improve them.
3. They speak out in class (even if their attempts are a bit clumsy or difficult). They ask questions concerning current assignments. They do **not** wait until an exam is forthcoming.
4. Successful students turn in assignments that are neat and sharp. They take time to produce a final product that reflects a caring attitude and pride in their work.
5. They see the instructor before or after class about grades and upcoming tests and other academic problems. They are not afraid to enter into meaningful conversation with the instructor.
6. They are attentive in class. They do not text, chat, read or eat. In other words, they are polite and graceful (even if they get a bit bored).
7. All work and assignments are submitted on time (as would be done in a realistic work environment). Successful students complete all work.
8. The most successful students may well spend time in the tutorial center (frequently), in the library (studying with a group of classmates) or at the instructor's door many times during the semester.

It is a demanding task to do well in college. Successful students work on all of the above characteristics. They are also models for their fellow students, who may be inexperienced, and help them get down to the business of serious studenting (a requirement of this course and of this instructor).

Hauscarriague				Math 81 Class Schedule				53892 T/Th		Spring 2012		
Date	Section	Topic		Date	Section	Topic						
Jan	24	1.1	Intro, Linear Equations		Mar	27	6.1	Nth Roots and Rat'l Exponents				
		1.2	Problem Solving					6.2	Laws of Exponents			
	26	1.3	Formulas for Prob Solve				29	6.3	Simplify Radical Expressions			
		1.4	Linear Inequalities					6.4	+/-/x Radical Expressions			
		31	1.5	Graphs of Equations		Apr	3	6.5	Rationalizing Radical Expressions			
			1.6	Linear Eqns in 2 variables					6.6	Functions Involving Radicals		
Feb	2	1.7	Par/Perpendicular Lines				5	6.7	Radical Eqns and Applications			
		2.1	Relations					6.8	The Complex Number System			
	7	2.2	Intro to Functions				10	8.1	Composite and Inverse Functions			
		2.3	Functions and Graphs					Rev				
	9	2.4	Linear Fncs and Models				12	Test 3	Ch 1,2,4,5,6 and 8.1			
		Rev										Lab #3 Due
	14	Test 1	1.1 – 2.4			17	8.2	Exponential Functions				
			Lab #1 Due				8.3	Logarithmic Functions				
	16	2.5	Compound Inequalities			19	8.3	Building Linear Models				
		2.6	Abs Value Equations				8.4	Properties of Logarithms				
	21	4.1	Add/Subtr Polynomials			24	8.5	Exponential and Log Equations				
		4.2	Multiply Polynomials				7.1	Solving Quad Eqns by CTS				
	23	4.3	Divide Polynomials			26	7.2	Solving Quad Eqns by Q.F.				
		4.4	GCF, Factor by Grouping				7.3	Solving Eqns Quadratic in Form				
	28	4.5	Factor Trinomials		May	1	7.4	Graphing w/Transformations				
		4.6/4.7	Factor Special Products					7.5	Graphing w/Quad Properties			
Mar	1	4.8	Polynomial Equations				3	7.6	Quadratic Ineq. Lab #4 Due			
		Rev						3.1	System of Eqns in 2 Variables			
	6	Test 2	Ch 1, 2, and 4				8	3.2	Problem Solving w/Systems			
			Lab #2 Due					3.3	System of Eqns in 3 Variables			
	8	5.1	Mult/Div Rat'l Express.				10	Review				
		5.2	Add/Sub Rat'l Express.					Test 4	Ch 1-8 MaSH Hrs Due			
	13	5.3	Complex Rat's Express.			15	Review					
		5.4	Rat'l Equations									
	15	5.5/5.6	Rat'l Inequal & Models			17	Final Exam	Thursday at 10:30				
		Quest	Ch 5									
March 19 – 25: Spring Break												

Homework Assignments

HW	eoo = every other odd		4.4	19,23,29,33,37,39,43,51			
1.1	31-39 odd,45-73 odd, 79,81,85		4.5	9,15,25,321,33,37,47,51,65,87,91,93		6.7	13,17,18,23-33odd (#31) 39, 45, 53, 59,71
1.2	7,13,21-27o,31,35-39o,45,67,73,77,79		4.6	7,17-29 odd(#19) 35,37,49,55,59,71,73, 77,85,93		6.8	9,11,23,25,29,35,43-51 odd (#49) 65-81 eoo (#77) 89,95,97,107
1.3	11,19,21,29,33,35,41,47,51,55,57		4.7	19-27 eoo, 29-37eoo, 39,41,43,59,85		8.1	7,15,19,25,27,29,35,41,47,51,53,55,67 68,81,87
1.4	21,27,55-67o,71-81o,85,101,105		4.8	17,19-27eoo,33,39,47,49-57eoo,63,66,69		8.2	7,9,17,18,23,31,39,49,55,61,67,73,79
1.5	17-27 odd, 39,41,45,47,53,57,61		5.1	17,21-39odd (#27,35) 47-55 eoo,63,67,69		8.3	7,11,13,17,23-31odd (#29) 37-41odd, 45, 61, 79, 89, 97, 99
1.6	7,41,47-65 odd, (#51) 71-77 odd		5.2	3,11,13,15,19,25-39 (#33,37) 45,47,59, 65,73,77		8.4	39, 47-63 eoo (#59) 71,79, 83, 89, 93
1.7	15-39 odd (#25)		5.3	11,15,27,29		8.5	13,17,23,29,39,47,49,50,53,57
2.1	15-33 odd (#17,23)39,43,45,51,53		5.4	15,19,20,23,29,31,41,47,69		7.1	7,19-23odd,29,39,43-53odd (#51) 57, 59,69,70,87,89
2.2	23-41odd (#31,35) 51-59 odd,67,69		5.5	5-11odd, 19,31,35		7.2	23-31odd(#27) 35,39, 41, 45,49, 51, 59, 61,71,89
2.3	17-45 odd, (#21,39) 51-63 odd(#57)		5.6	9,17,21,23-31 eoo, 33, 41		7.3	13,21,27,31-37odd, 43,47,55,61,63,69
2.4	19-35 eoo, 47-51 odd, 59, 63		6.1	7,9,23,35,37,41,51,59,67,71,79,81,91,113		7.4	3-11 odd, 29-45 eoo, 47, 61, 67,73,79
2.5	29-35 odd, 43,45-53 eoo, 67-75 eoo		6.2	5,11,17,19,21,29,33,43,47,55,57,77		7.5	15-23eoo, 25-33eoo,43-51eoo,57, 67, 69,75,79
2.6	39-59 eoo, 61-77 eoo, 79,83,91,95		6.3	5,23,29,30,31,33,37,39,40,51,53,61,67, 73,75,83,89,9,101,113,123,131		7.6	1, 3, 5, 17, 31, 37, 41
4.1	7,11,25,31,37,53,55,59,65,67,71,73,75, 79, 93		6.4	11,17,21,22,25,26,31,43,47, 53, 63, 67, 71 ,83, 91		3.1	17,19,27,29,33,37-43 odd, 57-65 eoo
4.2	9, 25-41 eoo, (#37) 43,49,51,59-79 eoo 73		6.5	3,19,21,25,31,35-47 odd (#41) 53,55,87		3.2	1, 3, 11, 21, 23, 27, 45, 51
4.3	17-27 odd (#23), 33-41 eoo, 57, 63		6.6	7,9,15,21,29,35,47,53,55		3.3	5, 13, 17, 29, 39