

COLLEGE ALGEBRA

MATH 105, FALL 2012 - SECTION #41287 (4 UNITS)
MON & WED, 8:00 AM - 9:50 AM, BLDG. 21, ROOM 157

INSTRUCTOR



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Office Hours MTWTh 7:15 AM - 7:40 AM
 Wed & Thurs 10:00 AM - 11:15 AM

COURSE

DESCRIPTION

This course covers factoring; radicals and rational exponents; rational expressions; solutions of linear, quadratic, and polynomial equations and inequalities; absolute value equations and inequalities; graphing relations and functions; solutions of systems of equations; exponential and logarithmic functions; conics; partial fraction decomposition; complex numbers; binomial theorem, determinants and matrices of any order; arithmetic and geometric progressions; and proof by mathematical induction.

PREREQUISITES

Math 90 with a grade of "C" or better, or by eligibility by placement on the VVC assessment exam. You may be asked to provide proof that you have met this prerequisite. Acceptable forms of proof include (but not limited to) VVC Assessment Test results, WebAdvisor or MicroGrade printout, or prerequisite challenge approval.

TEXTBOOK / MATERIALS



COLLEGE ALGEBRA GRAPHS & MODELS, 2ND EDITION, BY JOHN W. COBURN.

Online access at <http://www.connectmath.com/>. You will need an access code. You can purchase the access code directly from the website (\$80) or from the Rams bookstore (\$109.60).

Online access is required and includes complete digital access to your e-books, videos and homework. Your course Code is **VTAQV-9RRKV**.



The 2-week financial aid code for this course is **123AA-402D9-7968A-1DBAC**. Note that it **does not** give add an additional two weeks to your course. You will need to extend your account **BEFORE** the end of the two weeks.

CALCULATORS

Non-graphing Calculators are permitted in this course. The text will be illustrating problems using a graphing calculator, however, I am primarily assigning problems that will only require a non-graphing calculator.

HOMWORK

Practice is a vital component in learning mathematics. Students are to read each section in the e-book and do the assigned work. Videos for each section in the course produced by the textbook company may be found by choosing the Resources tab at the top of your Connect window. I have also created video lecture notes for you.

You may take each homework assignment as many times as you wish, and I will only count the highest grade for each assignment. I will drop the lowest 5 scores from your homework assignments at the end of the semester before calculating your semester grade.

LECTURE NOTES AND VIDEOS

I have switched texts for this fall term only, so the lecture notes and videos are going to be a little out of order. Refer to the chart on the last page of the syllabus to get the correlation between sections.

To watch my lecture videos, you will want to go to www.mathvideos.net, my video website, and click on the College Algebra button. Above each pair of chapters, there is a link to "download blank lecture notes". Please download and print all of these out at the start of the semester, as we will be bouncing around from section to section for the first half of the course.

CHAPTER TESTS

We will have 8 chapter tests (chapters 6 and 7 are combined as a single "chapter") and one final exam. I will drop your lowest-scoring chapter exam. No graphing calculators, notes or "cheat sheets" may be used on any of the chapter tests.

GRADING

It is your responsibility to be aware of your grade. Your final grade will be determined as follows:

Chapter Tests	50% of your grade	A: [88,100)
Online Homework	25% of your grade	B: [78,88)
Comprehensive Final Exam	25% of your grade	C: [70,78)
		D: [65,70)
		F: [0, 65)



IMPORTANT NOTES ABOUT TECHNOLOGY

This is an online course, requiring reliable computer access. Please ensure your computer is in good repair at the start of the semester. It is suggested that before any major assignments, the computer be re-booted to clear any memory caches which may cause issues while testing. While documented outages may occur, it is the student's responsibility to meet all deadlines in this course.

At the start of the semester, please go to www.connectmath.com/downloads and install the latest versions of many key plug-ins and movie players. If you ever find your computer running slow, sometimes the cause may be too many versions of Java running in your system. If this is the case, go into your Control Panel, uninstall both Java and Aleks. Then go to the download page mentioned above and re-install Java first, followed by Aleks. This will solve many of the issues that students typically face.

POLICIES

SCHOLASTIC DISHONESTY



While students may work together on the researching of any assignment, it is expected that each of their writing assignments reflect substantial individual effort. Any student who commits plagiarism or is found to have cheated on a scheduled exam is subject to a zero score for that specific exam which may result in a term grade of "F" for this course. Students should be aware that cases of cheating and/or plagiarism will be forwarded to the appropriate college administrator promptly. The college administration has a range of sanctions that may be imposed including, but not limited to, academic suspension or expulsion from the college.

ATTENDANCE

YOU ARE REQUIRED TO ATTEND CLASS EVERY DAY. AFTER 4 HOURS OF ABSENCE, YOU MAY BE DROPPED FROM THIS CLASS. IT IS YOUR RESPONSIBILITY TO KEEP YOUR ENROLLMENT STATUS CURRENT. YOU RISK AN "F" IF YOU STOP ATTENDING WITHOUT OFFICIALLY WITHDRAWING. DO NOT BRING FRIENDS OR CHILDREN TO CLASS. PLEASE TURN ANY CELL PHONES OR PAGERS TO SILENT MODE DURING CLASS TIME. NO CELL PHONES WILL BE ALLOWED ON YOUR DESK DURING EXAMS. WE ARE HERE TO LEARN; PLEASE REFRAIN FROM TEXTING DURING CLASS.

Class attendance is not a measure of performance or proficiency. Whether a student is just physically present in the class is not a valid basis for grading. Reference Title 5 Section 55002 of the California Code of Regulations: (A) Grading Policy. The course provides for measurement of student performance in terms of stated course objectives and culminates in a formal, permanently recorded grade based upon uniform standards in accordance with section 55758 of this Division. The grade is based on demonstrated proficiency in the subject matter and the ability to demonstrate that proficiency, at least in part, by means of written expression that may include essays, or, in courses where the curriculum committee deems them to be appropriate, by problem solving exercises or skills demonstrations by students.

STUDENT ACCESS

Students with special needs are encouraged to meet with instructors to discuss the opportunity for academic accommodation and be referred to disabled student program and services per Administrative Procedure (AP 3440).

If you have a learning disability or physical need that requires special accommodation, please advise me prior to 09-04-12 (the start of the second week of class).

MISCELLANY

ACADEMIC SUPPORT

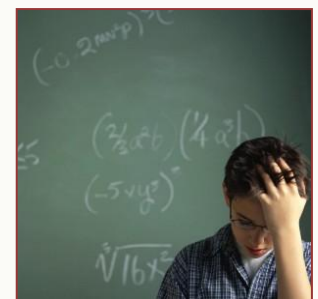
You are strongly encouraged to get tutoring or go to the Math Success Center, study in groups, and see me for help outside of class. All of these are free! Students that get help outside of class are typically much more successful than those that do not.

Regular Math Success Center hours are:

Monday-Friday 9:00 AM - 5:30 PM (starting the second week of class)

The Math Lab is located in building 42 (the Academic Commons). Outside of these those hours, please go to the information booth at the east end of the Tech building to sign in for tutoring help.

My office hours are listed at the start of this syllabus. Appointments are also available if you are unable to meet me at those times.



STUDENT LEARNING OUTCOMES

Upon completion of the course the student can:

1. Recognize, graph and compute zeros for polynomial, rational, radical, logarithmic and/or exponential equations.
2. Apply matrix algebra to determine the solution of a system of linear equations.
3. Apply concepts of analytic geometry to the conic sections.
4. Demonstrate knowledge of geometric and arithmetic sequences.

VVC FALL CALENDAR

Fall Term Begins	Aug. 27
Labor Day Holiday (college closed)	Sept. 3
Last Day to Drop and still receive a "W"	Oct. 12
Veteran's Day Holiday (college closed)	Nov. 12
Thanksgiving Break (no classes)	Nov. 22-23
Fall Semester Ends	Dec. 15

CLASS SCHEDULE

An effort will be made to adhere as closely as possible to this schedule. If we can ever “get ahead” of the pace, we will take the opportunity to do so, just in case we need extra time on other material, later in the course. Test dates are fixed, however. They will not change, regardless of our progress through the course.

Sections to be Covered In Class			Sections to be Covered In Class		
M	08.27	Connect, Intro, 1.1, 1.2, 1.3	M	10.22	4.5b, 4.6
W	08.29	1.4, 1.5	W	10.24	Review, 6.1
M	09.03	Labor Day Holiday - college closed	M	10.29	TEST Chapter 4
W	09.05	2.1, 2.2	W	10.31	6.2, 6.3
M	09.10	2.3, 2.4, 2.5	M	11.05	6.4, 7.1, 7.2
W	09.12	2.6, 3.1, 3.2	W	11.07	7.3, 7.4
M	09.17	Review, 3.3	M	11.12	Veteran's Day Holiday - college closed
W	09.19	TEST Chapters 1 & 2	W	11.14	TEST Chapters 6 & 7
M	09.24	3.5, 3.6	M	11.19	8.2
W	09.26	5.1, 5.2	W	11.21	8.3
M	10.01	5.3, 5.4	M	11.26	8.4
W	10.03	5.5, 5.6	W	11.28	9.1, 9.2
M	10.08	Review, 4.1	M	12.03	9.3, 9.4, 9.7
W	10.10	TEST Chapters 3 & 5	W	12.05	TEST Chapters 8 & 9
M	10.15	4.2, 4.3	M	12.10	Review
W	10.17	4.4, 4.5a	W	12.12	Final Exam

VIDEO CORRELATIONS FOR COLLEGE ALGEBRA GRAPHS & MODELS

While waiting for the regular version of this text to get completed in Connect, I am using the "Graphs & Models" version of the text this semester. This means that many of the section numbers have changed along with the order in which some of the topics are presented. This chart will help you to access the videos in the proper order for our text.

For example, when you start section 1.1 in your e-text, watch the video and take the notes for section 2.1 from www.mathvideos.net.

→ While some of you may be adventurous and try to learn the material using the "Guided Solution" buttons in Connect, this is no substitute for the video explanations. Students in the past who have tried both approaches have found that the video lectures help to explain the concepts and the differences between problem types which is missing if you just try to follow examples to learn the material on your own.

Section in Text	"old text" section	Section in Text	"old text" section
1.1	2.1	5.1	4.1
1.2	2.2	5.2	4.2
1.3	2.4	5.3	4.3
1.4	2.3	5.4	4.4a
1.5	1.1, 1.2a	5.5	4.4b
1.6 - skip!	--	5.6	4.5
		5.7 - skip!	--
2.1	2.5		
2.2	2.6	6.1	5.1
2.3	1.3	6.2	5.2
2.4	3.5, 3.6	6.3	5.3
2.5	2.7	6.4	5.4
2.6	3.8	7.1	6.1
		7.2	6.2
3.1	1.4	7.3	6.3
3.2	1.5, 3.7 (first column)	7.4	6.4
3.3	3.1	7.5 - skip!	--
3.4 - skip!	--		
3.5	2.8a	8.1 - skip!	--
3.6	2.8b	8.2	7.2
		8.3	7.3
4.1	3.2	8.4	7.4
4.2	3.3		
4.3	3.4	9.1	8.1
4.4	3.5	9.2	8.2
4.5	3.6	9.3	8.3
4.6	3.7	9.4 - minimal	8.4
		9.5 - minimal	8.5
		9.6 - skip!	--
		9.7	8.7