

COLLEGE ALGEBRA

MATH 105, FALL 2013 - BLDG. 21, ROOM 157 (4 UNITS)
SECTION #45297 - TUES 8:00 AM - 10:05 AM - HYBRID
SECTION #45328 - TUES 10:15 AM - 12:20 PM - HYBRID

INSTRUCTOR



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Websites www.stevetoner.com, www.MathVideos.Net
Office Hours Tues & Thurs 7:10 AM - 7:40 AM
Wed 8:00-9:00 AM (online- see page 3 for details);
Wed 9:45 AM - 11:55 AM (office)

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, 1ST EDITION, BY JULIE MILLER

Online access at <http://www.connectmath.com>. You will need an access code. You can purchase the access code directly from the website (\$85) or from the Rams bookstore (\$150.70, packaged with a loose-leaf version of the text).

Online access is required and includes complete digital access to your e-book, videos and homework.



The 2-week financial aid code for this course is **BA1B4-74C4D-54993-BD760**. Note that it **does not** give add an additional two weeks to your course. You will need to pay to extend your account.

You will NOT access ConnectMath directly from its website; the course is paired with Blackboard and you must access the course by clicking on the link within Blackboard.

CALCULATORS

Non-graphing calculators are permitted in this course. The text will be illustrating problems using a graphing calculator on occasion; however, I am primarily assigning problems that will only require a non-graphing calculator, if any at all.

THE HYBRID / “FLIPPED” CLASS FORMAT

“Hybrid” means that your class is partially on-campus and partially online. This class will be different from any of your other math classes because you will be taking your lecture notes at home BEFORE you come to class. In class, we will expand on what you have already learned and practiced online. The goal is to provide an active-learning environment in the classroom rather than a static “listen to the teacher talk” environment. We will do this through review, discussion, classroom exercises and activities.

HOMEWORK

PRACTICE is a vital component in learning mathematics. Students are to read each section in the book, take lecture notes (see below) and do the assigned homework at the Connect Math website. You may take each homework assignment as many times as you wish, and I will only count the highest grade for each.

There will be two types of homework assignments: “Video HW Assignments” which mirror the lecture notes and are due before you arrive at class, and “Review HW Assignments” which are a scrambled, combined extension and additional practice of the material after class. I will drop the 3 lowest scores from your Video Homework assignments and the 3 lowest scores from your Review Homework assignments at the end of the semester before calculating your semester grade.

LECTURE NOTES AND VIDEOS

To watch the lecture videos I have personally produced, you will want to go to www.mathvideos.net, my video website, and click on the College Algebra button. If the videos do not stream, save them to your hard drive. Every chapter or so, you may choose to delete old videos so that they do not take up too much space on your hard drive.

Above each chapter, there is a link to download blank lecture notes. Please download and print these out so that you can take notes from the videos listed in the table, organized by section and page number (in the notes).

QUIZZES

There will be online “practice quizzes” due before each class meeting, as well as on-campus quizzes during each class meeting, excluding the days you take the midterm and final exams. You may take the practice quizzes over again until you are satisfied with the score. Content on the practice quizzes will not be the same as that of the on-campus quizzes.

CHAPTER TESTS

We will have 7 online chapter tests (chapters 5 and 6 are combined as a single “chapter”), one midterm, and one final exam. I will drop your lowest-scoring chapter exam. You will get ONE 120-minute attempt at each chapter test. It is recommended that you re-start your browser before taking any online tests.

No graphing calculators, notes or “cheat sheets” may be used on any of the chapter tests, midterm or final exam.

DISCUSSION BOARD

There will be a weekly online discussion board at BlackBoard. Each week, you will be required to post at least one time to the weekly discussion board forum with a relevant post (not just a trite phrase), as well as respond to one of your classmates’ posts.

ACADEMIC SUPPORT

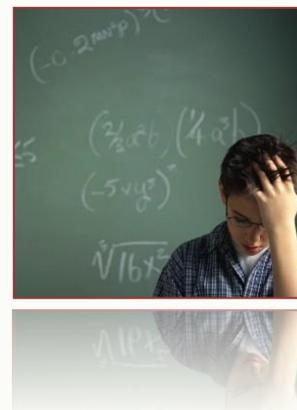
You are strongly encouraged to get tutoring or go to the Math Success Center, study in groups, and see me for help outside of class. All of these are free! Students that get help outside of class are typically much more successful than those that do not.

Regular Math Success Center hours are:

Monday-Friday 9:00 AM - 5:00 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. The MSC will begin operation the second week of the semester.

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. Online office hours are also available...



ONLINE OFFICE HOURS

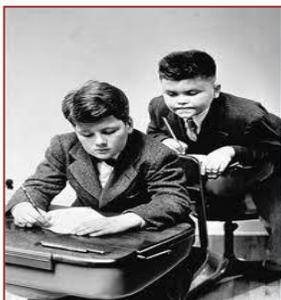
I will hold online office hours Wednesday mornings from 8-9 am on Google+ Hangout. I will be online during that hour each week. Either schedule a call or web chat with me in advance, or send me an email to Stephen.toner@vvc.edu during that hour and I will send you a really quick reply with a link that will take you to a Google+ Hangout where we can converse together. You do not need a webcam, but it is helpful.

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 09-03-13 (the start of the second week of class).

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.

IMPORTANT NOTES ABOUT TECHNOLOGY

This course requires 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.

VVC FALL CALENDAR

Fall Term Begins	Aug. 26
Labor Day Holiday (college closed)	Sept. 2
Last Day to Drop and still receive a "W"	Oct. 11
Veteran's Day Holiday (college closed)	Nov. 11
Thanksgiving Break (no classes)	Nov. 21-22
Fall Semester Ends	Dec. 14

STUDENT LEARNING OUTCOMES

Upon completion of the course the student can:

1. Recognize, graph and compute zeros for polynomial, rational, radical, logarithmic and 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.

OUR CLASS SCHEDULE

	In-Class Activity	Do After Class	Have Completed Before Next Class
T	08.27	Introduction	Video HW 1.1-1.4; practice quiz 1.1-1.4
T	09.03	Sections 1.1-1.4	Review HW 1.1-1.4
T	09.10	Sections 1.5-1.8	Video HW 1.5-1.8; practice quiz 1.5-1.8
		*Chapter 1 online test due by Friday night, Sept. 13	
T	09.17	Sections 2.1-2.4	Review HW 2.1-2.4
T	09.24	Sections 2.5-2.8	Video HW 2.1-2.4; practice quiz 2.1-2.4
		*Chapter 2 online test due by Friday night, Sept. 27	
T	10.01	Sections 3.1-3.4	Review HW 2.5-2.8; practice quiz 2.5-2.8
T	10.08	Sections 3.5-3.7	Review HW 3.1-3.4
T	10.15	Sections 4.1-4.3	Video HW 3.5-3.7; practice quiz 3.5-3.7
		*Chapter 3 online test due by Friday night, Oct. 18	
T	10.22	Midterm - Covers Chapters 1-3	
T	10.29	Sections 4.4-4.6	Review HW 4.1-4.3; practice quiz 4.1-4.3
		*Chapter 4 online test due by Friday night, Nov. 1	
T	11.05	Chapter 5	Review HW 4.4-4.6; practice quiz 4.4-4.6
T	11.12	Chapter 6	Review HW Ch 5; practice quiz Ch 5
		*Chapter 5-6 online test due by Friday night, Nov. 15	
T	11.19	Chapter 7	Review HW Chapter 6
		*Chapter 7 online test due by Friday night, Nov. 22	
T	11.26	Sections 8.1-8.3	Review HW Chapter 7
T	12.03	Sections 8.4-8.5	Video HW 8.1-8.3; practice quiz 8.1-8.3
		*Chapter 8 online test due by Sunday night, Dec. 8	
T	12.10	Final Exam - Covers Chapters 4-8	

GRADING

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

Online Chapter Tests	20% of your grade	A: [88,100)
Online Video Homework	10% of your grade	B: [78,88)
Online Review Homework	5% of your grade	C: [70,78)
Online Practice Quizzes	5% of your grade	D: [65,70)
Online Discussion Board	5% of your grade	F: [0, 65)
On-campus Quizzes	10% of your grade	
Classroom Activities	10% of your grade	
Midterm Exam, Final Exam	35% of your grade	

