COLLEGE ALGEBRA

MATH 105 ONLINE, SPRING 2013

SECTIONS #43079 (4 UNITS)

INSTRUCTOR

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Websites	www.stevetoner.com, www.MathVideos.Net
Office Hours	MTWTh 7:15 AM – 7:40 AM in my office Tues: 10-11 AM in the *Math Success Center* (bldg. 42) Wed: 10:40 AM-12:30 PM in the *Math Success Center* (bldg. 42)

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 to Connect Math is at http://www.connectmath.com/. **Online access is required for your** homework and exams. Your course code, needed to register, is **NKQWJ-RFWDK**.

Since we are beta-testing this text, access is FREE! The text and student answers can be downloaded from ftp://EmilyWilliams:Emily.Williams@ftp.eppg.com/VictorValleyCollege/

SMARTPEN

Since the online access will be FREE, I will be asking you to purchase a Livescribe Echo Smartpen. The bottom-line model is the Livescribe Echo 2 GB smartpen. You may also choose to purchase one with more memory or with wi-fi built into it if you want (then it is called a Sky pen). See the welcome letter for pricing and options.

HOMEWORK

Practice is a vital component in learning mathematics. Students are to read each section in the book 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. Homework for each chapter will be due at 7:59 AM on the test day for that chapter. I will drop the 5 lowest scores from your homework assignments at the end of the semester before calculating your semester grade.

The book and student answers can be downloaded from the following link:
ftp://EmilyWilliams:Emily.Williams@ftp.eppg.com/VictorValleyCollege/

I suggest you go to this ftp link one time, download the entire semester's files in one sitting, and then not have to go to the site again.

LECTURE NOTES AND VIDEOS

There are two sets of video lectures, those provided by the publisher, and those which I have created myself.

To watch the author's videos, go to http://www.millersample.com/ and use the password "sine". Click on the GREEN College Algebra book with the tennis ball on the cover. The second dropdown menu, titled "Miller College Algebra Video Series" will contain all of the author's videos. (There may be times I have you go into the first menu "Miller College Algebra Dynamic Flash Animations" too.)

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. Above each chapters, 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). These are intended to be your primary source of instruction in the class.

E-MAIL AND SMART PEN ASSIGNMENTS

There will be several short e-mail assignments as part of the course. Mostly these are of a book-keeping and of a communication nature. These will be sent directly to the email address you used to register for Connect, as well as posted at the Home screen in Connect Math. You will also be assigned a Smartpen assignment each week, beginning with the second week of class. After purchasing your Smartpen, you will need to install the free LiveScribe software on your computer. Follow the directions that came with your pen and go through the introductory demo in the Smartpen notebook that you should have received. This should teach you the basics of how to operate the pen.

Each assignment that you create using your Smart Pen should be very short. Aim for 2-3 minutes in length as a maximum! Each assignment should contain three parts: State and write your name; state and write the assignment name; write and narrate your explanation.

After creating the pencast on the special paper, each "pencast" file should then be created by connecting your Smartpen to your computer. This will automatically open up the Livescribe software you have installed. Transfer the pencast you have created to your hard drive and then email it to me by the due date. I suggest that you use a filename that includes your Last name and the assignment number; for example, my first pencast might be titled "Toner_1". I attached a sample pencast along with the welcome letter. You might need to install the latest version of Adobe Reader or perhaps the latest version of Flash in order to view the pencast. (I suggest you listen to it through before sending it in, as sometimes you can learn a lot by hearing yourself explain something… it also helps you to check for errors.)

You will find that you learn quite a bit by these assignments. You will have a tool which will help you to describe questions you have for me during the course. You will probably want to use the pen in your other classes, too!

Each pencast will be worth up to 10 points, with one point lost for each day the pencast is late.

For those of you who are not able to purchase the required Smartpen, I have purchased a one for the Math Success Center (building 42 on campus). It will be available for use starting the second week of class when I am in the lab (see office hours) or in the afternoons from 1-5 pm (when Sri is attending the lab). You would need to create the pencast while in the lab; the smaartpen cannot be checked out. (I will make sure the software is installed in the MSC on one computer by the second week of class.)

CHAPTER TESTS

We will have 7 chapter tests (chapters 5 and 6 are combined as a single "chapter") and one final exam. For each chapter test, you will only be allowed ONE 120-minute attempt. I will drop your lowest-scoring chapter exam. No graphing calculators, notes or "cheat sheets" may be used on any of the chapter tests. You are on your honor to be taking these tests ALONE with no assistance from anyone.

GRADING

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

Chapter Tests	40% of your grade	A:	[88,100)
Online Homework	25% of your grade	B:	[78,88)
E-mail & Smart Pen Assignments	10% of your grade	C:	[70,78)
On-Campus Comprehensive Final Exam	25% of your grade	D:	[65,70)
		F:	[0, 65)

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.

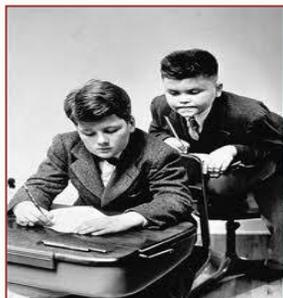## IMPORTANT NOTES ABOUT TECHNOLOGY

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. It is expected that you are ALONE when taking any chapter exams. You may NOT seek anyone's assistance during these exams. There should NOT be anyone looking over your shoulder helping, prompting, or correcting you. It is also assumed that you are taking ALL exams without the aid of a calculator.

ATTENDANCE

If this were an on-campus class, you would be required to attend class every day. After 4 hours of absence, you could be dropped from the on-campus class. As an online class, a similar rule should apply**. If you do not log in to Connect for 10 straight days, you will be considered to be excessively absent and may be dropped. It is your responsibility to keep your enrollment status current. You risk an "F" if you stop "attending" without officially withdrawing.**

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 02-19-13 (the start of the second week of class).
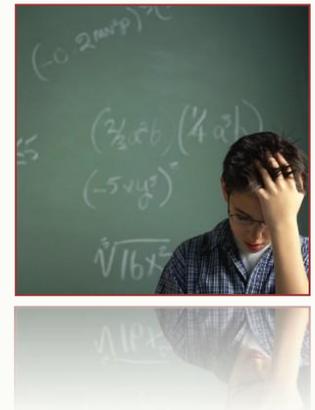
MISCELLANY

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. 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.

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.

Spring Session Begins	Feb 11
Last Day to Drop and Still Receive a "W" grade	Mar 29
Spring Break Week	April 6-14
Spring Session Ends / On-campus Final Exam	June 7

I HIGHLY SUGGEST YOU PRINT THIS PAGE OF THE SYLLABUS AND KEEP IT NEAR YOUR COMPUTER FOR EASY REFERENCE.

OUR CLASS SCHEDULE

Week	Dates	Section	Deadline
0		Early Start	Connect course becomes available on Friday, February 8, 2013
1	02.11 – 02.16	Start Ch. 1	
2	02.17 – 02.23	Finish Ch. 1	All HW and Chapter Test for Ch. 1 must be submitted by 7:00 AM on Sunday, Feb 24
3	02.24 – 03.02	Start Ch. 2	
4	03.03 – 03.09	Finish Ch. 2	All HW and Chapter Test for Ch. 2 must be submitted by 7:00 AM on Sunday, March 10
5	03.10 – 03.16	Start Ch. 3	
6	03.17 – 03.23		
7	03.24 – 03.30	Finish Ch. 3	*March 29th, 2013 is the last day to drop the course and still receive a "W" grade. All HW and Chapter Test for Ch. 3 must be submitted by 7:00 AM on Sunday, March 31
8	03.31 – 04.06	Start Ch. 4	
	04.07 – 04.13		SPRING BREAK!!
9	04.14 – 04.20	Finish Ch. 4	All HW and Chapter Test for Ch. 4 must be submitted by 7:00 AM on Sunday, April 21
10	04.21 – 04.27	Start Ch. 5-6	
11	04.28 – 05.04		
12	05.05 – 05.11	Finish Ch. 5-6	All HW and Chapter Test for Ch. 5-6 must be submitted by 7:00 AM on Sunday, May 12
13	05.12 – 05.18	Start Ch. 7	
14	05.19 – 05.25	Finish Ch. 7	All HW and Chapter Test for Ch. 7 must be submitted by 7:00 AM on Sunday, May 26
15	05.26 – 06.01	Start Ch. 8	
16	06.02 – 06.07	Finish Ch. 8	All HW and Chapter Test for Ch. 8 must be submitted by 8:00 AM on Friday, June 7
	June 7, 2013		FINAL EXAM on-campus from either 8:00-10:00 or from 10:00-noon (for those who have not completed it earlier)

FINAL EXAM

A comprehensive final exam will be given the final day of class on Friday, June 7th. If you are finished with the course early, you may schedule a time to take the final exam in one of Professor Toner's on-campus classes at 8 am during the last week of class, June 3-6.

Since there will be some in the class who will not stay in the class the full term, sign-up times for final exams will begin the middle of May, when we have determined how many students are still in the class and will be taking the final exam. An email will be sent to all remaining students at that time to start scheduling specific times for taking the final exam.

Students living _outside the area (Inland Empire)_ may set up to have an alternate Final Exam administered by a proctor, approved ahead of time. If this may apply to you, you **MUST** notify Professor Toner *by the end of the third week of class, Feb 23, 2013*. Specific arrangements will be made with those students after March 29th (the "W" drop deadline).