

COLLEGE ALGEBRA

MATH 105 ONLINE, SUMMER 2012
SECTIONS #40584 (4 UNITS)

INSTRUCTOR



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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, 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 **VYKNL-UX3RX**. You may begin the registration process at ConnectMath beginning June 15th, but the class will not officially begin until Monday, June 18th.

SUMMER 2012 CALENDAR

Summer Session Begins	June 18
Last Day to Drop and Still Receive a "W" grade	July 11
Summer Session Ends	August 11

You may take the on-campus final exam on Fri Aug 10th, or Sat Aug 11th, from 9-11 am.

HOMEWORK

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. You will, however, need a 70% on any given assignment in order to move on to the next assignment within that chapter. For example, you will not be allowed access to section 1.2 until you have completed the homework for section 1.1 with a score of at least 70%.

LECTURE NOTES AND VIDEOS

I have just made a last-minute switch of texts for this summer, so the lecture notes and videos are going to be a little out of order. First, 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 these out. For each lecture in the table, there is a video lecture I have created to teach you the material. Watch the videos and take lecture notes just as if you were in class. This is an essential part of the class.

Refer to the table beneath the calendar on the next page to see the video correlations for the first two chapters.

CHAPTER TESTS

We will have 9 chapter tests and one final exam. For each chapter test, you will only be allowed ONE 90-minute attempt. I will drop your lowest-scoring chapter exam. Your final exam, also online, will become available one week prior to the end of the semester. You will only be allowed ONE 150-minute attempt for the final exam. No notes or "cheat sheets" may be used on any of the chapter tests or on the final exam.

E-MAIL ASSIGNMENTS

There will be several short e-mail assignments as part of the course. Mostly these are of a book-keeping and communication nature. These will be sent directly to you at the email address you use to register for Connect.

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 Assignments	5% of your grade	C: [70,78)
Comprehensive Final Exam	30% of your grade	D: [65,70)
		F: [0, 65)



CALCULATORS

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. You will need a non-graphing calculator for your on-campus final exam.

COURSE DEADLINES

I have learned over the semesters that if I give deadlines which are too far apart, students tend to take too much time off and "cram" at the last minute. On the other extreme, if I assign deadlines too close to each other, it defeats the purpose of an online class, as I know you all have busy work schedules and vacations planned during summer.

For this reason, the following chart contains both "suggested due dates" and "firm deadlines". The "suggested due dates" are those which will most evenly spread the work out across the course, taking into account the level of difficulty of the various assignments, and assuring you will finish the course on time. The "firm deadlines" are those programmed into Connect. If you are finishing most of your assignments at these "firm" dates, you will likely fall behind and not be able to effectively finish the course on time.

Chapter	Suggested Due Dates	Firm Deadlines	Comments
1	6-22-12	6-27-12 at 8 am	More or less familiar material
2	6-29-12	7-2-12 at 8 am	Graphing, but somewhat familiar (until section 2.5)
3	7-4-12	7-8-12 at 8 am	Still somewhat familiar material
4	7-15-12	7-17-12 at 8 am	A tougher chapter... be prepared!
5	7-21-12	7-23-12 at 8 am	Logs- Repeat from Math 90 for most of you.
6	7-27-12	7-30-12 at 8 am	Systems of equations- with some twists
7	7-31-12	8-4-12 at 8 am	Matrices and determinants
8	8-6-12	8-7-12 at 8 am	Conic Sections - new and kind of fun!
9	8-10-12	8-11-12 at 8 am	Sequences and series - lots of formulas
Final Exam		Aug 10th or 11th	9-11 am; room TBA - ON-campus

VIDEO CORRELATIONS

Section in Text	"old text" section	Section in Text	"old text" section
1.1	2.1	2.1	2.5
1.2	2.2	2.2	2.6
1.3	2.4	2.3	1.3
1.4	2.3	2.4	3.5, 3.6
1.5	1.1, 1.2a	2.5	2.7
1.6 - skip!	--	2.6	3.8

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

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.

ATTENDANCE

If this were an on-campus class, you would be required to attend class every day. After 3 hours of absence, you could be dropped from this class. As an online class, the same rules need to hold. **If you do not log in to ConnectMath to work for 7 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 06-25-12 (the start of the second week of class).

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 equations and inequalities
3. Apply concepts of analytic geometry to the conic sections.
4. Manipulate geometric and arithmetic sequences.