MATH 1513 - 001

COLLEGE ALGEBRA **Spring 2014**

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http://www.mymathlab.com/contactus_stu.html

Syllabus Attachment. OSU has compiled useful information that applies to all classes at http://academicaffairs.okstate.edu/faculty-a-staff
This website includes add/drop/withdrawal dates, university holidays, accommodations for students with disabilities, academic resources, and much more. You are responsible for reading this information and having any questions answered.

This study of College Algebra involves the use of technology – the use of the graphing calculator has been integrated into the delivery throughout. Online methods are also used. Technology can be a tremendous aid in learning mathematics only if it is used *appropriately*. Technology is not a "quick fix" to learning functions or any mathematics! Because of the importance of technology today, a goal of the course is that you are comfortable with it and that you know when it is *appropriate* to choose it in learning mathematics. I think you will find technology is a great asset in learning mathematics.

Course Prerequisites. A minimum score of 30 on the ALEKS assessment or a Grade of C or better in Math 1483. Some minimal familiarity with a graphing calculator such as the Texas Instrument TI-83Plus is also required.

Course Objectives. To learn college-level algebra and to complete the college mathematics requirements for further study of mathematics and of mathematically-dependent subjects.

Required Textbook Package and Supplies.

- ***MyMathLab Access or Textbook Package***. You are required to purchase a bundle that includes MyMathLab access, a custom textbook, and a graphing calculator manual. The text is *College Algebra: Graphs and Models (OSU Custom 2nd edition)* by M. Bittinger, J. Beecher, D. Ellenbogen, and J. Penna. Pearson Education, Inc., 2013. **Note:** If you do not register for MyMathLab immediately, you will not be able to complete required homework. You are responsible for registering in time to meet all course deadlines.
- ***Graphing Calculator***. You are required to have a TI 83 Plus graphing calculator for this course. I will be using a TI-83 Plus graphing calculator for class demonstrations. You may check out a TI-83 Plus graphing calculator from the Mathematics Department (401 MS) for use during the semester while the supply lasts; there is NO charge.

Course Evaluation. There will be a total of 1000 points possible in this course, distributed among homework, worksheets, attendance, MLSC participation, hourly exams, and the final exam as shown below. Course grades will be determined according to the following distribution.

Homework	200 points
Worksheets	100 points
Attendance	40 points
MLSC Participation	60 points
Mid-Term Exam 1, 2, 3, 4	400 points
Final Examination	200 points

Letter grades will be assigned according to the following scale.

900-1000 points	A
800-899 points	B
700-799 points	C
600-699 points	D
0-599 points	F

TOTAL 1000 points

Examinations. There will be four (4) fifty-minute examinations with a maximum possible score of 100 points each and a 200 point comprehensive final examination. *Make-up midterm exams* will be given only for **documented, valid and unavoidable** conflicts. Your request to receive a make-up exam must be made in writing **in advance** for known conflicts or in a timely manner when extenuating circumstances arise. If this condition is not satisfied, it is understood that the opportunity to receive a make-up exam is voided. In the instance that a make-up exam is appropriate, the College Algebra course coordinator will schedule and administer the make-up exam in a timely manner. Bring your student ID to each examination.

Exam Dates. Our exams will be held on the following dates; mark your calendar NOW!

Exam 1: Friday February 6 over 1.1-1.6 & 6.1 & 3.5
Exam 2: Friday March 6 over 2.1-2.6 & 3.1- 3.4
Exam 3: Monday April 6 over 4.1-4.5 & 7.1-7.2 & 8.1-8.2
Exam 4: Friday April 24 over 5.1-5.6
Final Exam: Wednesday May 6, 12:00-1:50pm (Comprehensive) CLBN101

Homework Grade. Homework will be completed online using the MyMathLab (MML) program. The total number of points possible on homework assignments is 200 points. The lowest 5 homework scores will be dropped. Late work will not be accepted.

Worksheets. During the semester you will complete Worksheets weekly. The worksheets will be due at the beginning of class on the due date. Late worksheets will not be accepted. All work must be shown. The total number of points possible on worksheets is 100 points. The 3 lowest worksheet scores will be dropped. The remaining 11 worksheet scores will comprise your worksheet score, but will not exceed 100 points.

Attendance/Class Participation Score. Daily attendance is critically important. It is difficult, and sometimes impossible, to succeed in a college course without regular attendance. At least once per day, I will take attendance in some way. For each day you are present in class for the **entire** class session and **actively participating** you will receive 1 attendance point. The total number of attendance points possible for the semester is 44 points, however your score will be calculated based on 40 attendance points.

MLSC Participation. In addition to participating in class daily, you will also earn points by using the free resources at the Mathematics Learning Success Center (MLSC). Each week (Sunday-Friday) you will spend a minimum of 1 hour at the MLSC to earn MLSC participation points. Four (4) points will be earned each week beginning the week of January 6 and ending the Friday (May 1) of pre-finals week. (The MLSC may be open during Finals Week, but participation points will not be earned.) **To ensure that your points are recorded each time that you go to the MLSC, make sure that you check in and check out with your OSU Student ID and identify yourself as a College Algebra student.** I also encourage you to keep a log of the dates and times that you visited for your own reference. MLSC Participation Points will not be recorded if you check into the MLSC during the time your class meets. You also need to spend a minimum of 15 minutes working on College Algebra each time you attend the MLSC for the time to count. By the end of the second week of class you will be able to log into the STAR system and view the time you have completed for the week. Please be mindful that the computer is unforgiving and 59 minutes in a week will not earn any MLSC points. To see your time for the week log in to "star.okstate.edu" and use your okey password.

Every time you go to the MLSC: Check in and check out with your OSU Student ID Card.

The MLSC is open the following times this semester:

Sunday	1:00pm – 9:00pm
Monday – Thursday	9:00am – 9:00pm
Friday	9:00am – 5:00pm

The MLSC will be closed on University Holidays

MLSC: Mathematics Learning Success Center - The MLSC is an invaluable resource to support your mathematical learning. The MLSC is located on the 5th floor of the Library (Check in at the front desk). For more information, visit the MLSC website at www.math.okstate.edu/mlsc, or call 405-744-5818 or 405-744-5688.

Electronics In The Classroom. To promote learning and student interaction in the classroom electronic devices will not be permitted. These electronic devices include, but are not limited to cell phones, ipods, ipads, laptops, and earbuds.

More on Class Attendance. Class attendance involving active participation is a very important element in your success in learning College Algebra. YOU ARE EXPECTED TO ACTIVELY PARTICIPATE IN EACH CLASS SESSION. Experience has shown a definite correlation between good class attendance and good grades. Signing the class Attendance Sheet for another student is not permitted; if it is determined that a student signed in for another student, this unethical conduct will be regarded as a violation of Academic Integrity and the appropriate University policies will be employed. Of course, you won't get anything out of the class if you are there physically but not mentally or if you are unprepared. Simply showing up to class is not enough.

Because of the value I place on our class sessions as active learning opportunities, I ask that you assume responsibility for being physically present no later than 8:30 a.m. If you do miss a class session, you are responsible for finding out what you missed from a classmate, including any announcements and notes from class discussions. I also realize that you may have a class that follows this one; I will dismiss each class session promptly at 9:20 a.m.

Drop and Withdrawal Policy (General University Policy 2-0206). "Dropping" means withdrawing from a specific course while "withdrawal" means withdrawing *from all courses* and leaving the University for the balance of the term. The drop and withdrawal dates are noted on the syllabus attachment. IT IS YOUR RESPONSIBILITY TO KNOW AND COMPLY WITH ALL DEADLINES. Reasons similar to those listed below will NOT result in approval for dropping a course after the deadline (from OSU Policy 4.03):

a. Student's lack of knowledge or misunderstanding of the deadline.
b. Student waited to get the results of an exam or other assignment.
c. Student's grades have declined since the deadline.
d. Student doesn't need the course for graduation.
e. Different deadlines existed at a previous school.

Incomplete Grade. The grade of "I" is given to students who satisfactorily complete the majority of the course work and whose work averages "D" or better, but who have been **unavoidably** prevented from completing the remaining work of the course. A condition that the students must repeat the course in order to remove the "I" is not permitted. The maximum time allowed for a student to remove an "I" is one calendar year.

Academic Integrity. The university has explicit rules governing academic integrity. Please consult the OSU Fall 2014 Syllabus Attachment mentioned above.

Working with another person or in study groups on problems can be helpful in learning the material. I encourage you to work together if you find it helpful. However, **all written and on line work submitted must be your own.** Copying someone else's problem solution, showing your written solution to someone else, or having another person complete your on line work is prohibited; such behaviors are regarded as violations of academic integrity and will be treated according to the University's policy. In order to be successful in learning the material and doing well on the examinations you must think very hard about the problems themselves **before** discussing them with anyone else.

Special Accommodations for Students. "If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Call 405-744-7116 or go to http://sds.okstate.edu/." (OSU Spring 2015 Syllabus Attachment)

Office Hours. I encourage you to come talk to me during my office hours (or email for an appointment if you can't make any of those times) when you have questions or concerns. When you come to my office

WEEK	DATE	SECTION/TOPIC	DUE DATES
1	1/12	Class Overview & Introduction Syllabus & MyMathLab Registration Review Material & Entering answers in MML	In Class Questions – Wednesday 1/14 Due online – Friday 1/16 at 11:59pm
	1/14	1.1 Introduction to Graphing	In Class Questions – Friday 1/16 Due online – Friday 1/16 at 11:59pm
	1/16	1.2 Functions and Graphs	In Class Questions – Wednesday 1/21 Due online – Wednesday 1/21 at 11:59pm
2	1/19	University Holiday -- Martin Luther King Day	
	1/21	1.3 Linear Functions, Slope and Applications	In Class Questions – Friday 1/23 Due online – Friday 1/23 at 11:59pm Worksheet 1 – due at the beginning of Class
	1/23	1.4 Equations of Lines and Modeling	In Class Questions Monday 1/26 Due online – Monday 1/26 at 11:59pm
3	1/26	1.5 Linear Equations, Functions, Zeros, and Applications	In Class Questions – Wednesday 1/28 Due online – Wednesday 1/28 at 11:59pm
	1/28	6.1 Systems of Equations in Two Variables	In Class Questions – Friday 1/30 Due online – Friday 1/30 at 11:59pm Worksheet 2 – due at the beginning of Class
	1/30	1.6 Solving Linear Inequalities	In Class Questions – Monday 2/2 Due online – Monday 2/2 at 11:59pm
4	2/2	3.5 Solving Equations and Inequalities with Absolute Value	In Class Questions – Wednesday 2/4 Due online – Wednesday 2/4 at 11:59pm
	2/4	2.1 Increasing, Decreasing, and Piecewise Functions; Applications	In Class Questions – Monday 2/9 Due online – Monday 2/9 at 11:59pm Worksheet 3 – due at the beginning of Class
	2/6	**Exam 1 over 1.1-1.6 & 6.1 & 3.5**	Sample Exam 1 – due at the beginning of Class
5	2/9	2.2 The Algebra of Functions	In Class Questions – Wednesday 2/11 Due online – Wednesday 2/11 at 11:59pm
	2/11	2.3 The Composition of Functions	In Class Questions – Friday 2/13 Due online – Friday 2/13 at 11:59pm Worksheet 4 – due at the beginning of Class
	2/13	2.4 Symmetry	In Class Questions – Monday 2/16 Due online – Monday 2/16 at 11:59pm
6	2/16	2.5 Transformations	In Class Questions – Wednesday 2/18 Due online – Wednesday 2/18 at 11:59pm
	2/18	2.6 Variation and Applications	In Class Questions – Friday 2/20 Due online – Friday 2/20 at 11:59pm Worksheet 5 – due at the beginning of Class
	2/20	3.1 The Complex Numbers	In Class Questions – Monday 2/23 Due online – Monday 2/23 at 11:59pm

7	2/23	3.2 Quadratic Equations, functions, Zeros, and Models	In Class Questions – Wednesday 2/25 Due online – Wednesday 2/25 at 11:59pm
	2/25	3.2A Quadratic Equations, functions, Zeros, and Models	In Class Questions – Friday 2/27 Due online – Friday 2/27 at 11:59pm Worksheet 6 – due at the beginning of Class
	2/27	3.3 Analyzing Graphs of Quadratic Functions	In Class Questions – Monday 3/2 Due Online – Monday 3/2 at 11:59pm
8	3/2	3.4 Solving Rational Equations and Radical Equations	In Class Questions – Wednesday 3/4 Due online – Wednesday 3/4 at 11:59pm
	3/4	4.1 Polynomial Functions and Modeling	In Class Questions – Monday 3/9 Due online – Wednesday 3/9 at 11:59pm Worksheet 7 – due at the beginning of Class
	3/6	**Exam 2 over 2.1 -2.6 & 3.1-3.4**	Sample Exam 2 – due at the beginning of Class
9	3/9	4.2 Graphing Polynomial Functions 4.3 Long Division of Polynomials	In Class Questions – Wednesday 3/11 Due online – Wednesday 3/11 at 11:59pm
	3/11	4.3 Synthetic Division of Polynomials 4.4 Theorems about Zeros of Polynomial Functions	In Class Questions – Friday 3/13 Due online – Friday 3/13 at 11:59pm Worksheet 8 – due at the beginning of Class
	3/13	4.5 Rational Functions	In Class Questions – Monday 3/23 Due online – Monday 3/23 at 11:59pm
10	3/16	University Holiday -- Spring Break	
	3/18	University Holiday -- Spring Break	
	3/20	University Holiday -- Spring Break	
11	3/23	7.2 The Circle	In Class Questions – Wednesday 3/25 Due online – Wednesday 3/25 at 11:59pm
	3/25	7.2 The Ellipse	In Class Questions – Friday 3/27 Due online – Friday 3/27 at 11:59pm Worksheet 9 – due at the beginning of Class
	3/27	7.1 The Parabola	In Class Questions – Monday 3/30 Due online – Monday 3/30 at 11:59pm
12	3/30	8.1 Sequences and Series	In Class Questions – Wednesday 4/1 Due Online – Wednesday 4/1 at 11:59pm
	4/1	8.2 Arithmetic Sequences and Series	In Class Questions – Friday 4/3 Due online – Friday 4/3 at 11:59pm Worksheet 10 – due at the beginning of Class
	4/3	5.1 Inverse Functions	In Class Questions – Wednesday 4/8 Due online – Wednesday 4/8 at 11:59pm
13	4/6	**Exam 3 over 4.1-4.5 & 7.1-7.2 & 8.1-8.2**	Sample Exam 3 – due at the beginning of Class
	4/8	5.2 Exponential Functions and Graphs	In Class Questions – Friday 4/10 Due online – Friday 4/10 at 11:59pm Worksheet 11 – due at the beginning of class
	4/10	5.3 Logarithmic Functions and Graphs	In Class Questions – Monday 4/13 Due Online – Monday 4/13 at 11:59pm

14	4/13	5.4 Properties of Logarithmic Functions	In Class Questions – Wednesday 4/15 Due online – Wednesday 4/15 at 11:59pm
	4/15	5.5 Solving Exponential Equations and Logarithmic Equations	In Class Questions – Wednesday 4/17 Due Online – Wednesday 4/17 at 11:59pm Worksheet 12 – due at the beginning of Class
	4/17	5.5A Solving Exponential Equations and Logarithmic Equations Chapter 5 Review	In Class Questions – Monday 4/20 Due Online – Monday 4/20 at 11:59pm
15	4/20	5.6 Applications and Models: Growth and Decay; Compound Interest	In Class Questions – Wednesday 4/22 Due Online – Wednesday 4/22 at 11:59pm
	4/22	Chapter 5 Review	Worksheet 13 – due at the beginning of Class
	4/24	**Exam 4 over 5.1-5.6**	Sample Exam 4 – due at the beginning of Class
16	12/1	Final Review	Group Homework 1 – In Class
	12/3	Final Review	Group Homework 2 – In Class Worksheet 14 – due at beginning of Class
	12/5	Final Review	
Finals	12/12	**Comprehensive Final 12:00noon – 1:50pm**	CLBN 101 Sample Final Exam – due at the beginning of the Final