South Plains College
College Algebra– Math 1314.213
Course Syllabus
Fall 2016

Instructor: Morgan Groves
Email: mgroves@southplainscollege.edu
Time: 7:00pm – 8:45pm TR
Room: RC211

Textbook: Blitzer, R. (2013). *College Algebra*, 6th Edition. New Jersey: Pearson Prentice Hall.
ISBN: 0321782283. *The hardcopy is optional. MyMathLab will be required.*

Supplies: You will need pencils, paper, and class notes (if available). Calculators with exponential and logarithmic functions are required. Graphing Calculators are permitted but not required (NOTE: the TI-89, TI-nspire and above are not permitted). Calculators on cell phones or other electronic devices will not be allowed in this class. Access to MyMathLab will be required for doing homework.

Core Curriculum: This course satisfies the following Core Objectives:
Communication Skills:
- Develop, interpret, and express ideas through written communication
- Develop, interpret, and express ideas through oral communication
- Develop, interpret, and express ideas through visual communication

Critical Thinking:
- Generate and communicate ideas by combining, changing, and reapplying existing information
- Gather and assess information relevant to a question
- Analyze, evaluate, and synthesize information Empirical and Quantitative

Competency Skills:
- Manipulate and analyze numerical data and arrive at an informed conclusion
- Manipulate and analyze observable facts and arrive at an informed conclusion

Expected Learning Outcomes: At the end of this course, students should be able to competently perform the following:
1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.

Grading:

Grading:		Grading Scale:		
Homework/Quizzes:	20%		A	90-100
Exams:	20% each (3 exams)		B	80-89
Final Exam:	20%		C	70-79
			D	60-69
			F	0-59

A grade of C (70%) or better is required to advance to the next course.

***Note: Students must justify answers or show work on all problems to receive full credit.

Class Attendance: Students are expected to be in class and prepared for the day's lesson. Students are responsible for the material covered in this course, even if they are not in class for any reason. Students that are planning to be absent due to doctor's appointments, school related activities, or other such events must contact me **before** the absence, with documentation of the coming event to arrange any necessary make-up work. Students that are absent without notice due to illness or other emergency must contact me by email as soon as to arrange any make-up work. Students that do not contact me regarding their absences forfeit their ability to make up any work.

Late work: Late work is not accepted. If you do not turn in an assignment on time, you will receive a zero.

Homework: MyMathLab will be used in this course. Homework is expected to be done daily. Written assignments may also be given as necessary where long-form answers are required. Any long-form answers must have all work shown in an organized fashion. Late work is not accepted. If you were enrolled in a College Algebra class that used MyMathLab in the last 12 months, you do not need a new access code. Access codes are good for 12 months. The online homework is NOT optional. Your online homework grade will be your homework grade for the semester. I will drop approximately 3 homework grades at the end of the semester. You are expected to either print out each homework assignment or copy down the problems in a spiral. You are also expected to keep all of your homework (problem, work, and boxed answers) organized and neat in your class binder/folder/spiral.

Follow these steps for a painless registration procedure:
Before you start, you will need:
- A student's access code is found in your MyMathLab Student Access Kit that comes with the book, or you can purchase online an access code using a credit card.
- The course ID number will be given to you the first day of class. Course ID number for your course: **groves73603**
- A valid email address that you check on a regular basis. I highly recommend using your SPC e-mail. You must also register with your full legal name (the same name that shows up on my roster). Do NOT use nick names, name abbreviations, etc.
- SPC Zip Code: 79336

See attached sheet for more details on getting registered into MyMathLab. You are expected to be registered and actively working on your homework assignments by the end of the first week of SPC classes.

It is YOUR responsibility to keep up with the online homework. I will not remind you every day to do your homework assignments that have been posted. You can always assume if we have done new material, you have new homework assignments. There are no homework extensions or make-ups. Do not miss any assignments because second chances with homework are not granted.

Class Notes: There are typed class notes available on Blackboard for you to print off prior to each class. You can also opt to purchase a spiral bounded copy of the semester notes from The Copy Outlet in Lubbock (2402 Broadway). Please email Dakota Meller (info@thecopyoutlet.com) at least 24 hours in advance to order your printed notes. They will NOT have them preprinted. The cost of these notes is $21.60 + tax. Either option (printing yourself or purchasing the bounded notes), you must come to class every day prepared with these notes in hand.

Participation: Participation consists of in-class assignments/discussions, and problems presented on the board.

Quizzes: There are no predefined quizzes for this class. However, I reserve the right to quiz whenever I feel it is necessary. I will usually give at least one day's notice of an upcoming quiz, but not necessarily. Pop quizzes are possible in this class. Quiz grades will count as part of your homework average. **No quiz grades (if there are any) will be dropped.**

Exams: There will be 3 exams and one comprehensive final exam. Tentative dates for the exams are given on the course outline. <u>These dates are subject to change.</u> All exams are expected to be completed in the allotted class time, no exceptions. If for any reason you are unable to take an exam at the designated time, you must contact me *prior* to class time. If this is not possible, then you must contact me as soon as possible to make arrangements to make-up the exam. Make-up exams will be given at the discretion of the instructor. No exam grades will be dropped. However, **if your final exam grade is higher than your lowest test grade, then it will replace your lowest test grade (as well as count for the final exam).**

Extra Credit: Occasionally, bonus questions will be asked on exams. These problems will be approximately the same difficulty level as the rest of the exam's problems, and are offered as an opportunity to pad your exam score. They are not required. There is also a MyMathLab extra credit opportunity available to all students. See the document handed out at the start of the semester regarding this opportunity.

Tutoring: Digital versions of tutorial videos can be viewed on your personal computer on Blackboard, http://spc.blackboard.com. Login using "mvideos" and password "mvideos". Click on Math-Math Videos and locate the appropriate course and topic in which you are interested.

Technology: You are to have all cell phones off and out of sight during class.

Class Rules:
- Be courteous and respectful at all times.
- Be on time and ready to learn.
- Keep your hands and feet to yourself.
- Use only pencil for all assignments.
- No food or drinks in class other than bottled water.
- Students are not permitted to use electronic devices, other than a calculator, in class.
- Adhere to the requirements of the Student Code of Conduct.

Academic Integrity: Academic dishonesty will not be tolerated. You are expected to uphold the ideas of academic honesty. All work that is graded must be your own. This policy applies to all work attempted in this course. If this policy is violated the student will receive an F for the assignment and will be dropped with an F. For more details on what is considered cheating, see the South Plains College catalog.

Student Conduct: You are expected to be respectful to others in the classroom. Please assist in maintaining a classroom environment conducive to learning. Any student disrupting the learning environment will be asked to leave and may be dropped from the course.

Disability: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Special Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Special Services Coordinator. For more information, call or visit the Special Services Office in the Student Services building, 894-9611 ext. 2529.

Equal Opportunity: South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities without regard to race, color, national origin, religion, gender, disability or age.

Diversity: In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

Disclaimer
The instructor reserves the right to alter any class policies as deemed necessary by the instructor or South Plains College, and will announce any changes in class. If a student has any questions about a change in policy ask the instructor for clarification.

Day	Date	Topic	Section
T	30-Aug	Introduction/Algebraic Expressions, Mathematical Models, and Real Numbers/Exponents and Scientific Notaiton/Radicals and Rational Exponents	P.1 - P.3
R	1-Sep	Polynomials/Factoring Polynomials/Rational Expressions	P.4 - P.6
T	6-Sep	Assessment	
R	8-Sep	Graphs/Linear Equations and Rational Equations	1.1 - 1.2
T	13-Sep	Models/Complex Numbers	1.3 - 1.4
R	15-Sep	Quadratic Equations/Other Basic Equations	1.5 - 1.6
T	20-Sep	Inequalities/Absolute Value	1.7
R	22-Sep	Function Basics	2.1/2.2/2.5
T	27-Sep	Linear Functions and Slope	2.3/2.4
R	29-Sep	Combinations and Compositions of Functions/ Function Inverses	2.6/2.7
T	4-Oct	Circles	2.8
R	6-Oct	Quadratic and Polynomial Functions	3.1/3.2
T	11-Oct	**Exam 1 (Ch. 1 & Ch. 2)**	Ch. 1, Ch. 2
R	13-Oct	Finding zeros of higher order polynomials	3.3/3.4
T	18-Oct	Rational Functions/Polynomial and Rational Inequalities	3.5/3.6
R	20-Oct	Exponential and Logarithmic Functions	4.1-4.3
T	25-Oct	Solving Exponential and Logarithmic Equations	4.4/4.5
R	27-Oct	Systems of Linear Equations	5.1/5.2
T	1-Nov	Test Review	
R	3-Nov	**Exam 2 (Ch. 3, Ch. 4)**	Ch. 3, 4
T	8-Nov	Systems of Linear Equations (augmented matrices)	6.1/6.2
R	10-Nov	Determinants/Cramer's Rule	6.5
T	15-Nov	Partial Fraction Decomposition	5.3
R	17-Nov	Nonlinear Systems/Systems of Inequalities	5.4/5.5
T	22-Nov	Sequences and Summation	8.1
T	29-Nov	Exam Review	
R	1-Dec	**Exam 3 (Ch. 5 & Ch. 6)**	Ch. 5, 6
T	6-Dec	Arithmetic/Geometric Sequences/Binomial Theorem	8.2/8.3/8.5
R	8-Dec	Final Exam Review	
T	13-Dec	**Final Exam 7:15pm - 9:15pm**	Everything!!