

THE CLASS

**Math1314.001
College Algebra
Spring 2017
Days: TR
Room: M122**

**Total Time: 8:00am-9:45am
Questions from Students: 8:00am-8:05am
Lecture: 8:05am-9:10am
Break: 9:10-9:15am
Lab Assignment: 9:15-9:45am**

Textbook: *College Algebra*, 6th edition by Blitzer (optional)

THE PROFESSOR

Alan Worley

Chairperson of Math & Engineering

716-2645

Email: aworley@southplainscollege.edu

Blackboard will be used to access bonus problems and solutions

Office: Room120 in Math Building

Office Hours:

Monday: 9:45-11:00am, 1:30-2:30pm

Tuesday: 9:45-11:00am

Wednesday: Same as Monday

Thursday: Same as Tuesday

Friday: 9:00am-12:00pm

Or by appointment

Background:

College/Degree: New Mexico State University (M.S. in Biostatistics)

Other Duties at SPC: Athletic Mentor for Math Department

Pet Peeves:

Anybody who accepts underachievement

Cell phone addiction

STUDENT LEARNING OUTCOMES/COMPETENCIES:

Upon completion of this course and receiving a passing grade, the student will be able to:

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.

CORE OBJECTIVES:

Communication Skills:

Effective development, interpretation, and expression of ideas through written, oral, and visual communication.

- 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:

creative thinking, innovation, inquiry, analysis, evaluation, and synthesis of information.

- 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:

the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

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

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.

DISABILITY STATEMENT

Disabilities: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability 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 Disability Services Office. For more information, call or visit the Disability Services Office at Levelland Student Health & Wellness Center 806-716-2577, Reese Center (also covers ATC) Building 8: 806-716-4675, Plainview Center Main Office: 806-716-4302 or 806-296-9611, or the Health and Wellness main number at 806-716-2529.

GRADING POLICY

All students will be required to complete lab assignments, 3 exams, and 1 comprehensive final exam.

Exam 1: 20%
Exam 2: 20%
Exam 3: 20%
Comprehensive Final: 25%
Lab Assignments: 15%

NOTE: Your lowest exam score will be replaced by the comprehensive final exam score, provided that it is higher.

There are also recommended bonus problems available. Successful completion of these bonus problems will serve 3 purposes:

First, you can earn 5 points to each exam, if you complete all bonus problems. Completion of bonus problems includes showing all work (where applicable) without plagiarism. Students are encouraged to HELP each other, get assistance from free tutoring available, and get assistance from your instructor. The bonus problems are due at the beginning of each exam, but it is recommended that you complete the bonus problems by the lecture (review) before the exam. By doing this, you will get feedback and help on any problems. You will also get access to the solutions. Thus, you can correct these problems (if any) and use the available time for study.

Second, perfect practice makes perfect. Students that complete and understand the bonus problems should do well on the exams.

Third, students that complete the bonus problems will have the opportunity to abide by a more favorable grading scale, as seen below.

Grading Scale

GROUP 1

A: 88.5% or higher
B: 78.5% to 88.5%
C: 67.5% to 78.5%
D: 55% to 67.5%
F: less than 56%

GROUP 2

A: 90% or higher
B: 80% to 90%
C: 70% to 80%
D: 60% to 70%
F: less than 60%

GROUP 1 students must satisfy the following conditions: 2 or fewer absences, complete bonus problems for every exam, demonstrate strong work ethic in the classroom.

Lab assignment deductions: 5 percentage points:

Tardiness (10 minutes late)

Disrespect for fellow students or professor

Falling asleep in class

Cell-phone ringing/vibrating during class.

25 percentage points:

Cell-phone use during class, such as texting.

ATTENDANCE POLICY

A record of attendance is required by South Plains College throughout the entire semester. Why? South Plains College loses a substantial amount of money when students cash financial aid checks, but do not attend class and earn F's. When this happens, tuition and fees may increase. Everyone wants to avoid this, and South Plains College does a good job to help prevent this. Therefore, it is critical to maintain a good attendance record in this class. The attendance in this class is reflected on your lab assignment grade.

On every lab assignment, you will get points for being in class, both physically and mentally. If for some reason you leave early, you will still turn in your uncompleted lab assignment. However, you will still earn the attendance points. Attendance points are based upon your presence and attitude during the lecture time. Remember, 2 or more unexcused absences will place you in the Group 2 grading scale. School-related absences are excused (Make sure you bring your paper for me to sign).

What if I do not finish the lab assignment?

If you are not able to complete the lab assignment by 9:45am, then I will grant an extension without penalty. I will only grant this extension after 9:40am.

Can I make-up a lab assignment that I missed?

Yes. Whether the absence was excused or unexcused, I propose that we use my office hours on Friday morning. I will go over the lecture with you, and then you will complete the lab assignment in my office or in a room next to my office. You will be granted one week for any make-ups. When the week expires, your lab assignment that was missed will be 0.

When can I withdraw or drop a class?

The last day to withdraw from a class is April 27. However, most of you are not allowed (for various reasons) to withdraw from this class, because it is considered a remedial class.

What is the policy for excessive absences?

Students will be dropped from a class for excessive absences. Why? See the first paragraph. Excessive absences in this class will be the following: 4 consecutive absences or a total of 7 absences. When a student reaches excessive absences, the student will be assigned an "F". Again, this does not include school-related absences. Also, I understand that people get sick; we have children that get sick; have to go to court; funerals; etc. All that I ask is that you send me an email or call me when you have to miss class. We can work something out. It becomes a problem when you show up every once in awhile or quit attending without any explanation or reason.

Class: Math 1314Semester: Spring 2017

Monday	Tuesday	Wednesday	Thursday	Friday
Jan. 16 MLK Day	Jan. 17	Jan. 18 Chapter P	Jan. 19	Jan. 20
Jan. 23 Section 1.2 Linear Equations	Jan. 24	Jan. 25 Section 1.3 Applications	Jan. 26	Jan. 27
Jan. 30 Section 1.4/5 Quadratic Eq.	Jan. 31	Feb. 1 Section 1.6 Other Types/Eq	Feb. 2	Feb. 3
Feb. 6 Section 1.7 Inequalities	Feb. 7	Feb. 8 Section 2.1/2 Functions	Feb. 9	Feb. 10
Feb. 13 Review	Feb. 14	Feb. 15 EXAM 1	Feb. 16	Feb. 17
Feb. 20 Section 2.3/4 Slope/Lin. Funct.	Feb. 21	Feb. 22 Section 2.6/7 More Functions	Feb. 23	Feb. 24
Feb. 27 Section 2.8 Formulas/Circles	Feb. 28	Mar. 1 Section 3.1 Quad. Functions	Mar. 2	Mar. 3
Mar. 6 Section 3.2/3/4 Poly. Functions	Mar. 7	Mar. 8 Section 3.2/3/4 Poly. Functions	Mar. 9	Mar. 10
Mar. 13 Spring Break	Mar. 14 Spring Break	Mar. 15 Spring Break	Mar. 16 Spring Break	Mar. 17 Spring Break
Mar. 20 Section 3.5 Rational Funct.	Mar. 21	Mar. 22 Review	Mar. 23	Mar. 24
Mar. 27 EXAM 2	Mar. 28	Mar. 29 Section 4.1 Exp. Funct.	Mar. 30	Mar. 31
Apr. 3 Section 4.2/3 Logarithms	Apr. 4	Apr. 5 Section 4.4 Exp./Log Equat.	Apr. 6	Apr. 7
Apr. 10 Section 5.1/5.2 Systems of Eq.	Apr. 11	Apr. 12 Section 6.1/2 Matrices	Apr. 13	Apr. 14
Apr. 17 Easter Holiday	Apr. 18	Apr. 19 Section 6.4 Cramer's Rule	Apr. 20	Apr. 21
Apr. 24 Review	Apr. 25	Apr. 26 EXAM 3	Apr. 27	Apr. 28
May 1 Section 5.4 Non-Lin. Syst.	May 2	May 3 Final Review	May 4	May 5
May 8 FINAL (8am-10am)	May 9	May 10	May 11	May 12 Graduation