

**Math 1314 Syllabus**  
**College Algebra**  
**Spring 2026 Sul Ross State University**

<b>Sec. 001:</b>	Tue, Thu: 11a-12:15p in ACR 205
<b>Instructor:</b>	Dr. Kris Jorgenson
<b>Office:</b>	ACR 109D
<b>E-mail:</b>	kjorgenson@sulross.edu
<b>Office Hours:</b>	Mon, Tue, Wed, Thu: 10-11a, 3:30-4:30p; Fri: 10a-12p; also by appointment

**Course Description:** The prerequisite is Math 0301 or a satisfactory score on a Mathematics Placement Exam. This is a college-level algebra course for students who plan to take calculus. Topics include linear and quadratic equations and functions, inequalities, sets of real numbers, rectangular graphs, complex numbers, exponential and logarithmic functions with real-world application problems.

**This course satisfies 3 hours of math requirements of the Core Curriculum.**

**Students who are required to take Math 1314 include those planning to take**

- (1) Calculus 1 (Math 2413, which has the additional prerequisite of Math 1316);**
- (2) Business Calculus (Math 1325);**
- (3) Foundations of Elementary Mathematics 1 (Math 2310);**
- (4) Computer Science and many other Bachelor of Science Degrees—check with your advisor.**

**Student Learning Objectives** Successful students will demonstrate correct understanding and knowledge of the algebra topics including but not limited to those of the Course Description. Particular emphasis will be placed on the order of operations and the algebra and language of functions. Students will apply concepts and problem-solving methods to different problem-solving situations. Students will demonstrate correct knowledge of the difference between numbers that are in exact form and numbers that are approximate and will be able to report numbers in exact form and with a correct approximation when required. Such numbers are often in the context of other mathematical objects such as a function or algebraic expression. Students will express their solutions clearly in writing and complete sentences when appropriate.

**Required Elements:** This is a Face-to-Face class, so your attendance is required and will be explicitly rewarded.

**Textbook:** College Algebra, 3rd Edition by Paul Sisson, ISBN (including software bundle): 978-1-64277-169-5. You are required to get the software package for online homework that includes an electronic copy of the textbook. A hard copy of the textbook is optional though it may be very helpful. Some of your homework grade will be based on online homework, which is denoted OHW (Online Homework). The OHW assignments will be listed in the lecture notes along with other required homework problems. You should collect the OHW problems as well as the lecture notes HW together in a notebook that you will be able to use during the in-class quizzes.

**Scientific Calculator:** There will be some need of a scientific calculator, which has buttons with denotations such as  $y^x$ ,  $a^b$ , or  $\wedge$ ,  $e^x$ , LN, LOG, but use of a calculator will not be a large part of this course. Only a stand-alone (not connected to a phone or computer) calculator may be used during the in-class quizzes and tests. Appropriate scientific calculators cost usually \$10-\$50 each. Any graphing calculators (for example the TI-83, TI-84, TI-89 or TI-92) **are not allowed**.

**Class Materials:** Students are expected to be prepared in every class with pencils and paper in some sort of organized notebook for taking notes of lecture content and examples that will help you with the homework. You are required to be involved in class activities every class day. This will be part of your grade.

**Blackboard:** You are required to have access to Blackboard and have an e-mail address that you check regularly be your e-address registered in Bb since I will regularly need to contact you outside of class with important information.

**Pandemic Restrictions** It is strongly encouraged that students get a vaccination and a booster for the Covid-19 Corona Virus. Students are also encouraged to wear a proper face covering and follow social distancing guidelines based on your own personal decision as there have been recent increases in contagious diseases that includes Covid-19.

**Grading and Assignments:** The assignments discussed below will help students achieve all of the Learning Objectives mentioned previously through active learning and assessment. Your total grade will break down as follows:

**Daily Grade (DG)** is worth **30%** of your total grade and consists of **Class Study Grades (CSG) (10%)**, **Online Homework (OHW) (10%)**, and in-class **Quizzes (10%)**. Every class day after the first class there will be either a major test, in-class quiz, or a CSG. The **Test Average** worth **70%** will be based on 3 unit tests. I give letter grades according to the traditional 90%-100% for an A; 80-89% for a B; 70-79% for a C; 60-69% for a D; and less than 60% for an F; with some exceptions. Students whose total average is between 50-59% with Test Average over 50% will often be rounded up to a D but only if the student has completed every major assignment (no exceptions) while doing their own best work. Students working similarly with a borderline grade of 89%, 79%, or 69% will often be rounded up to the next grade-level as long as their test average is in line with this total average.

In each class, students will be told which of the assignments they should be concentrating on from the online and lecture notes HW in order to stay caught up. There are deadlines posted for the OHW that serve as a guideline to help you keep up with this HW. It is very important that you keep up with all of the homework (online and lecture notes HW) in your notebook. On average, students should make it a goal to complete and understand 5 or more homework exercises each day. The homework assignments (which include the online homework and the lecture notes HW) will be the basis for the 3 unit tests. The Quizzes will primarily be over the HW in the lecture notes.

Besides studying and doing the online and lecture notes HW, students should always study and/or correct their graded quizzes, since this affords an important opportunity for learning material that will appear on the tests. Making mistakes based on your own work and correcting these mistakes with my help, if necessary, is a great way to learn mathematics! Additionally, students will be able raise 1 Quiz grade to 100% before each test by communicating with me and correcting the quiz in order to fill in any gaps in your understanding before the corresponding test, but only if your HW notebook is up to date.

So this will be an added bonus for keeping up with the HW in your notebook (both online and from the lecture notes).

There will be **3 Unit Tests** each based on the corresponding Unit Assignments. Each of these tests will count in your **test average**. Students may only use pencil(s)/eraser(s) and scientific calculator during these 3 tests, which will be given in class. The dates for the Unit Tests are as follows.

<b>Test 1</b>	<b>Tue: Feb. 17</b>
<b>Test 2</b>	<b>Tue: March 31</b>
<b>Test 3</b>	<b>Mon. May 4: 10:15a-12:15p</b>

Test 3 will be given during finals week during the allotted 2-hour period.

**To Guarantee Full Credit for Work Done at a Time Different Than the Scheduled Time:**

\* For Tests or In-class Quizzes, be sure to contact me about the missed grade **before or by the day of the absence** and be able to produce documentation for a medical excuse or from a faculty sponsor for an absence due to a trip with a Sul Ross student organization. You can send me these documents by e-mail or in-person. Be sure to make an appointment with me to make up the quiz or test in my office area no more than 2-3 days before or after the absence.

\* For a Class Study Grade, if you document your absence as explained in the previous paragraph, you can earn back the CSG by making up the CSG in my office area before the day of the next test.

\* For Online Homework, as explained previously, the OHW deadlines are a guide to help you keep up with these online assignments, but you can still earn full credit on an OHW assignment as long as you complete it before the next impending test. In other words, there is no late penalty for OHW as long you complete the assignment before the test that covers this OHW.

**Attendance** I will be taking attendance as university policy precludes you from missing 3 weeks or more for anything other than authorized university activities. To excuse an absence for a university activity, in addition to letting me know of the absence by the day of the absence (as explained previously) you must also spend at least 60 minutes outside of class on this course with me or with a tutor, but they will need to sign a note that documents this made-up time. Also I will allow you to excuse a test day for a documented medical absence as long as you also make up the test with me or in the testing center. If you have 3 weeks or more of unexcused absences, I reserve the right to drop you from this class with a grade of 'F', which is university policy.

**Good Advice** Concentrate on learning the material of the course rather than worrying about your grade. Your time is best spent concentrating on the material to be learned in the impending assignments, asking questions, and devoting yourself to activities that will help you learn the material and do better in the course. I will worry about the details of your grade since you doing so does not help you earn a higher grade. But learning the material and doing well on the tests will help your grade. **Remember that math is not a spectator**

**sport**, so the more problems you work yourself, the more practice you will get, and the more confident you will be, and you will do better in this course. Working on the problems helps you to figure out what your specific questions are. Remember an individual homework or quiz grade does not count for a lot in your overall grade, but working and learning from the homework and quizzes is **essential** because this is where you learn the topics that will appear on the tests, which do count for a lot of your grade. The best lessons learned often come from correcting a quiz or homework problem in which you have made a mistake.

### **More Good Advice**

Keep absences to a minimum. You never know when you might miss something important either from the lecture or class discussion such as questions other students ask.

**Remember: YOU ARE RESPONSIBLE FOR EVERYTHING THAT IS DISCUSSED DURING CLASS WHETHER YOU ARE PRESENT OR NOT.**

Also do not allow yourself to develop bad habits such as missing classes. It's human nature to be controlled by our habits, so once you develop a weekly habit for the semester, it can be hard to break this habit. So be sure that you allow the necessary time for this course **FROM THE BEGINNING OF THE TERM, ESPECIALLY** if you consider mathematics to not be your best subject. If you have trouble in math, then you should attend **EVERY** class of a college mathematics course. Not showing up to class or not doing the required work will not cause this class to magically go away. If you are not understanding the material and/or have fallen behind in your work, missing class will not help. **IF YOU FALL BEHIND, PLEASE DO NOT DROP THIS COURSE WITHOUT TALKING TO ME FIRST.** Making mistakes or falling behind is natural, so it is best to talk to me about this. If you do have to miss class, let me know beforehand. Discuss with me what you are not understanding. It is essential to get your questions answered. But meeting with me outside of class is not a substitute for attending class.

Ask questions no matter how easy or trivial they may seem. There is no such thing as a bad or silly question. Questions result when you are interested and have been thinking about areas, such as mathematics, in which you have limitations in your educational background. Being in a college mathematics course means you will have questions both obvious and more subtle. Asking questions is a very important part of the learning process.

Study and work problems regularly—every day or every other day. Work on assignments discussed in class as soon as you can after class while the methods discussed are still fresh in mind. You can't expect to succeed in a math course by waiting till the last minute to only study and cram immediately prior to a test. If you promise yourself you will study for a ½-hour, get into the work, forget the clock, then the next thing you know, you've studied and worked for one to two hours. Remember that

**LEARNING FROM MISTAKES + PERSISTENCE = SUCCESS!**

**Classroom Conduct** It is important to conduct yourself in a college classroom so that everyone can benefit from good communication between instructor and students. My goal is to create an environment in which everyone can do their best work, learn, and make the best grades possible.

I think you will find that I am a very friendly, sympathetic, and generous instructor as long as you are sincerely working to succeed in this course and certain guidelines for classroom behavior are followed to allow a sanctity of study for your fellow students. Habits such as holding conversations during class, or being engaged in activities not related to this

course such as working on a different course or reading your cell-phone will work against the goals of this course and cause you to be counted absent and you will lose Daily Grade credit. Also engaging with electronic communication devices of any kind during class or coming into class more than 5 minutes late or leaving early before class is dismissed circumvent the goals of this course and cause you to lose credit. My sympathy and generosity will quickly evaporate if I find that you are working against the goals of the course or that you are simply trying to get a good grade without learning or without honestly doing the required work. I want you to have every opportunity to learn and succeed in this course.

Please be aware of the rules for Academic Honesty that you will find in the Sul Ross Student Handbook. Use commonsense to think of anything else that will allow you to learn and do the best work that you can in this class, and for me to better help you do your best work. Remember that being registered for this course does not allow you to behave in any manner you wish during class. You must keep other people in mind. It is within university policy for me to send a student out of this class on a temporary or permanent basis if disruptions or interruptions like the types listed above persist.

#### **ADA Statement**

**SRSU Accessibility Services.** Sul Ross State University (SRSU) is committed to equal access in compliance with the Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the student's responsibility to initiate a request each semester for each class. Students seeking accessibility/accommodations services must contact Ronnie Harris, LPC, SRSU's Accessibility Services Director at 432-837-8203 or email [ronnie.harris@sulross.edu](mailto:ronnie.harris@sulross.edu). Our office is located on the first floor of Ferguson Hall, room 112, and our mailing address is P.O. Box C122, Sul Ross State University, Alpine, Texas, 79832.

This course is supportive of the

Student Learning Outcomes for the Bachelor of Science degree in Mathematics:

- 1) The student will be able to demonstrate content knowledge of basic mathematical principles.
- 2) The student will be proficient in logic, able to negate statements, provide counterexamples to false statements, and determine the validity of arguments.
- 3) The student will be able to communicate mathematical content clearly and with valid reasoning.

#### **Program Marketable Skills:**

Marketable Skill (MS) 1: Students Demonstrate Logical and Analytical Skills.

MS 2: Students Demonstrate Problem-Solving Using Analytic and Algebraic Methods.

MS 3: Students Use Technology in Problem-Solving and Presentation.

MS 4: Students Use Communication and Pedagogical Skills.

#### **Required Student Responsibilities Statement**

All full-time and part-time students are responsible for familiarizing themselves with the Student Handbook and the Undergraduate & Graduate Catalog and for abiding by the University rules and regulations. Additionally, students are responsible for checking their Sul Ross email as an official form of communication from the university. Every student is expected to obey all federal, state and local laws and is expected to familiarize themselves

with the requirements of such laws.

#### **EC-6 Core Teacher Competencies:**

**Competency 001 (Mathematics Instruction)** The teacher understands how students learn mathematical skills and uses that knowledge to plan, organize and implement instruction and assess learning.

**Competency 002 (Number Concepts and Operation)** The teacher understands concepts related to numbers, operations and algorithms and the properties of numbers.

**Competency 003 (Patterns and Algebra)** The teacher understands concepts related to patterns, relations, functions and algebraic reasoning.

**Competency 004 (Geometry and Measurement)** The teacher understands concepts and principles of geometry and measurement.

**Competency 005 (Probability and Statistics)** The teacher understands concepts related to probability and statistics and their applications.

**Competency 006 (Mathematical Processes)** The teacher understands mathematical processes and knows how to reason mathematically, solve mathematical problems and make mathematical connections within and outside of mathematics.

#### **Classroom Climate of Respect**

Importantly, this class will foster free expression, critical investigation, and the open discussion of ideas. This means that all of us must help create and sustain an atmosphere of tolerance, civility, and respect for the viewpoints of others. Similarly, we must all learn how to probe, oppose and disagree without resorting to tactics of intimidation, harassment, or personal attack. No one is entitled to harass, belittle, or discriminate against another on the basis of race, religion, ethnicity, age, gender, national origin, or sexual preference. Still we will not be silenced by the difficulty of fruitfully discussing politically sensitive issues.

#### **Academic Integrity**

Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. Students should submit work that is their own and avoid the temptation to engage in behaviors that violate academic integrity, such as turning in work as original that was used in whole or part for another course and/or professor; turning in another person's work as one's own; copying from professional works or internet sites without citation; collaborating on a course assignment, examination, or quiz when collaboration is forbidden. Students should also avoid using open AI sources unless permission is expressly given for an assignment or course. Violations of academic integrity can result in failing assignments, failing a class, and/or more serious university consequences. These behaviors also erode the value of college degrees and higher education overall.

#### **SRSU Distance Education Statement**

Students enrolled in distance education courses have equal access to the university's academic support services, such as library resources, online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website.

Students should correspond using Sul Ross email accounts and submit online assignments through Blackboard, which requires a secure login. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty

and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website. Directions for filing a student complaint are located in the student handbook.

### **Counseling**

Sul Ross has partnered with TimelyCare where all SR students will have access to nine free counseling sessions. You can learn more about this 24/7/365 support by visiting Timelycare/SRSU. The SR Counseling and Accessibility Services office will continue to offer in-person counseling in Ferguson Hall room 112 (Alpine campus), and telehealth Zoom sessions for remote students and RGC students.

### **Supportive Statement**

I aim to create a learning environment for my students that supports various perspectives and experiences. I understand that the recent pandemic, economic disparity, and health concerns, or even unexpected life events may impact the conditions necessary for you to succeed. My commitment is to be there for you and help you meet the learning objectives of this course. I do this to demonstrate my commitment to you and to the mission of Sul Ross State University to create a supportive environment and care for the whole student as part of the Sul Ross Familia. If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you.

### **Important Dates (16-week term)**

Wed, Jan. 14	First day of classes 16-week term, first day of late registration and schedule changes
Mon, Jan. 19	MLK, Jr. Holiday, No Classes
Tue, Jan. 20	Last day for late registration and schedule changes
Fri, Jan. 30	Last Day to Drop a 16-Week Course Without Creating an Academic Record; 12th class day 16-week census
Mon-Fri March 9-13	Spring Break Holidays, No Classes
Mon, March 16	Mid-Semester, 16-week term
Fri, April 3	Last day to drop a class with a grade of "W" in a 16-week course by 4 pm in University Registrar's Office
Fri, April 3	University/Community Meal on the Mall, SRSU birthday
Mon, April 13	Honors Convocation, 7 pm, Marshall Auditorium
Wed, April 29	Last Day of Class before Finals, 16-week term
Thu, April 30	Dead Day 16-week term, No Classes
Fri, Mon-Wed: May 1, 4-6	Final Exams 16-week term, End of Term

<b>Tentative Class Schedule-Math 1314, Sec. 001 Spring 2026</b>		
<b>X = no class</b>	Tue	Thu
Jan. 15	<b>X</b>	First Day of Class Sets of Real Numbers Ordering rational numbers
Jan. 20, 22	Irrational Numbers Order of Operations Polynomials	Polynomial Arithmetic Factoring Polynomials
Jan. 27, 29	Polynomial Arithmetic Factoring Polynomials	Linear Equations Absolute Value Equations
Feb. 3, 5	Linear Functions, Graphs	Slopes of Linear Functions
Feb. 10, 12	Parallel, Perpendicular Lines Linear Applications	Review Test 1
Feb. 17, 19	<b>Test 1</b>	Polynomial Equations Properties of Radicals
Feb. 24, 26	Rational Exponents	Inequalities Absolute Value Inequalities
Mar. 3, 5	Functions Graphs, Domains Multi-Part Functions	Complex Numbers
Mar. 9-13	<b>X - Spring Break -----&gt;</b>	
Mar. 17, 19	Quadratic Equations	Quadratic Equations
Mar. 24, 26	Quadratic Functions	Review for Test 2
Mar. 31, Apr. 2	<b>Test 2</b>	Composition of Functions Inverse Functions
Apr. 7, 9	Inverse Functions Exponential Functions	Exponential Functions Logarithmic Functions
April. 14, 16	Properties of Logs Exp, Log Equations	Exp, Log Equations
April. 21, 23	Applications of Exp, Log Functions	Applications of Exp, Log Functions
Apr. 28	Review for Test 3	Dead Day Thurs, April 30 Finals Fri, May 1, Mon-Wed, May 4-6
Mon., May 4	<b>Mon., May 4, Test 3 (Final Exam)</b> <b>Test 3: 10:15a-12:15p</b>	