

SUL ROSS STATE UNIVERSITY
ACADEMIC CENTER FOR EXCELLENCE
Common Course Syllabus
MATH 0300 001 (11578)

COURSE TITLE: Introductory Algebra
SECTION, CLASS DAYS & TIME: MATH 0300 001 MWF 9:00-9:50
CLASSROOM: FH 201

INSTRUCTOR: McAlister, Cynthia
INSTRUCTOR'S Office: FH 206
INSTRUCTOR'S PHONE #: 432-837-8522
INSTRUCTOR'S E-MAIL: cmca849@sulross.edu
INSTRUCTOR'S OFFICE HOURS: MWF 10:00-11:00; TR 8:30-11:30 and 2:00-3:00

CREDIT HOURS: 3
LECTURE HOURS: 3

PLACEMENT: TSIA: a score of 336-343 OR ABE 5-6

CATALOG DESCRIPTION:

MATH 0300 Introductory Algebra (3-0). This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the mathematics portion of the assessment. Topics included in this course are algebraic operations on real numbers, the solving of equations and inequalities, basic operations with polynomials, simple graphing techniques, critical thinking skills, and college readiness skills. Credit in this course cannot be used to satisfy requirements for any degree. Students must earn a grade of C or better to progress to the next level math course.

SOFTWARE (TEXTBOOK): ALEKS

ALEKS Tech Support: Monday - Friday, 8:00 AM to 9:00 PM • 714-619-7090 • <http://support.aleks.com>

ALEKS Course Code: 9VW4Q-33WRL

ALEKS Financial Aid Code: 5790E-DD75D-8D2A2-045BA

NOTE:

If you have not purchased your copy of ALEKS by the end of the fourth week of class, you will be dropped from this class with an "F."

SUPPLIES: Three-ring Binder and dividers or spiral with dividers and notebook paper; pencils only in classroom.

LEARNING OUTCOMES:

After completing this course, the student should be able to demonstrate competency in the following:

- (1) Demonstrate skills with fractions and decimals;
- (2) Verify equivalent fractions, decimals, and percentages; apply skills to analyzing percentages;
- (3) Generalize algebraic operations on real numbers and apply properties of real numbers;
- (4) Verify equivalent expressions and generalize to algebraic operations;
- (5) Apply skills and properties for solving equations and practical problems;
- (6) Apply linear graphing techniques
- (7) Apply basic geometric formulas; generalize to practical geometric concepts.

COURSE REQUIREMENTS:

See your instructor's syllabus addendum for specific requirements.

METHOD OF EVALUATION:

See your instructor's syllabus addendum for specific requirements. The grade of "PR" (Progress) can only be earned the first semester that you take this course. If you have to retake the course, then you may only receive a traditional letter grade.

ACCELERATION:

You determine how quickly or slowly you complete the work associated with this course. The sooner you complete your developmental math placement, the better off you will be, so please feel free to work hard and quickly.

You may complete your pie, and then take the mid-term and final exams for MATH 0300. If you pass these exams, your instructor will convert your ALEKS program to MATH 0301 and you can start work on that course. If you complete the MATH 0301 pie, you may take the mid-term and final exams for MATH 0301 as well.

ACADEMIC ETHICS:

Please remember that real success comes from learning how to do the work yourself. Your instructors believe that you are an honest individual and expect that all of the work that you do results from your own efforts. You know that a college education costs too much for you to waste your time trying to beat the system rather than figuring out how to learn the material. You know that any form of cheating is dishonest and it makes you look very bad. Your instructor will have specific responses to any academic dishonesty that s/he may encounter. A repeated instance of academic dishonesty may result in your situation being forwarded to the Dean of Student Life. Please see the *SRSU Student Handbook* for a more complete discussion of academic honesty.

ATTENDANCE POLICY:

Sul Ross State University and the State of Texas require each student liable for any portion of the Texas Success Initiative (TSI) to attend and participate in developmental coursework. If you fail to attend and/or participate, you will earn an “F” for the course. Also, it is a course requirement that you take the mid-term and final exams. Failure to do so will result in your earning an “F” for the course.

If you must be absent, you are responsible for finding out what was covered and assigned in class in order to be prepared when you return to class. According to the University catalog, “When a student has to miss class due to an authorized university activity, it will be the responsibility of the student to notify the instructor of the class in advance [and to complete all assignments] within a reasonable time and at the convenience of the instructor.”

See your instructor’s syllabus addendum for specific attendance criteria.

If you are absent from class, you will want to contact a classmate and get the notes that you missed.

Class Member: _____

Phone #: _____ E-Mail: _____

Class Member: _____

Phone #: _____ E-Mail: _____

Being more than five minutes late or leaving before class is over will be counted as an absence!

CELL PHONES:

Cell phones going off during class are disruptive. Be a considerate class member. Turn off your cell phone before class begins and keep it turned off throughout the class period. If you feel that you have an emergency situation that requires your phone being left on, speak with your instructor before class. Should you fail to silence (including the “vibrate” function) your phone, you risk being counted absent.

COURSE COMMITMENT:

You will make the decision about how long it takes you to clear your developmental math requirement. Please keep these thoughts in mind:

1. Your registration in this course is the result of *your* math test scores and, at this time, those scores do not indicate that you could be successful in a college level math class. We want you to be successful in your college level math class, so learn everything that you can in this class.
2. It costs as much to take this class (at least \$830) as it does to take any other SRSU three-hour course. Yet you know that this course does not count towards your degree. You will save a lot of money and time if you decide to clear your developmental math requirement as quickly as possible.
3. You are the only one who can make the commitment to be successful in this class. You will decide how much time you end doing homework, asking your instructor questions, and visiting with a tutor. So come to class and complete this course with a grade of “C” or better this semester.

EXTRACURRICULAR ELIGIBILITY: You will sign a contract with ACE that notes that if you do not pass all of your developmental education coursework this semester, or receive a grade of “PR” (ED 0200, ENG 0200, MATH 0200, ED 0300, ENG 0300, ENG 0310, MATH 0300, and/or MATH 0301), then you will not be eligible to participate in any extracurricular SRSU activities next long semester. Extracurricular activities include, but are not limited to, Student Government Association, Campus Activities, Athletics, and Rodeo.

STUDENT ASSISTANCE:

Tutors are available in the Academic Learning Center, Ferguson Hall 213, free of charge. Please check with the Academic Learning Center for hours and days of tutor availability.

STUDENTS WITH DISABILITIES:

If you have a disability and need an accommodation, you should contact the Counseling and Accessibility Center located in Ferguson Hall, Room 112 (432-837-8691). You are responsible for presenting to the instructor any accommodation letter(s) and instructions.

TEXAS SUCCESS INITIATIVE (TSI) ADVISING:

As a developmental education student, you have a TSI hold on your records. In order for you to register for the next semester, you must see a TSI advisor in Lobo Den. Lobo Den is located in Lawrence Hall, Room 102 and their phone number is 432-837-8982.

COURSE REQUIREMENTS:

A=90-100%

B=80-89%

C=70-79%

F=69% or less

METHOD OF EVALUATION:

Time: 10%

Objectives: 25%

Quizzes: 25%

Exams: 40%

TENTATIVE SCHEDULE

Week 1: Initial Assessment, get started on Pie

Week 2: Review of Basic Skills

1. Equivalent Fractions
2. Addition and Subtraction of Fractions
3. Multiplication and Division of Fractions
4. Exponents and Order of Operations
5. Properties of Operations
6. Prime Numbers, Factors and Multiples
7. Addition and Subtraction of Decimals
8. Multiplication and Division of Decimals
9. Operations with Real Numbers

Weeks 3-5: Algebraic Expressions and Equations

1. Algebraic Expressions
2. Additive and multiplicative Properties of Equality
3. Solving Equations with Multiple Steps
4. Applications of Linear Equations

Weeks 6-8: Ratios, Proportions, and Percent

1. Ratios
2. Proportions
3. Finding a Percent
4. Rate of a Tax
5. Applying the Percent Equation
6. Finding the Sale Price and the Original Price

Week 9: Mid-Term Review and Exam

Weeks 10-11: Geometry

1. Triangles
2. Polygons and Quadrilaterals
3. Circles
4. Pythagorean Theorem
5. Similar Polygons

Week 12: Statistics and Probability

1. Tables and Graphs of Data
2. Mean, median, and Mode
3. Probability
4. Counting Principles
5. Factorial Expressions

Weeks 13-14: Graphs of Linear Equations

1. Ordered Pairs
2. Equations with Two Variables
3. Graphing
4. Slopes
5. Intercepts
6. Writing Equations from Data

Week 15: Final Exam Review
Last Class Day is Wednesday, November 30

Week 16: Final Exam
Tuesday, December 6; 8:00-10:00