Math 1314-050 and MATH 0199-050
College Algebra Course Policy- Fall 2023

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Office: MATH 347
Phone: 936-468-1440 (office)
936-468-3805 (Math Dept.)

Class meeting information: These two classes (MATH 1314-050 and MATH 0199-050) will be treated like one class that meets every day. Classes are held in the Bush Mathematical Sciences Building on the SFASU campus
MWF 12:00 – 12:50 and TTh 12:30 – 1:45 in room 208

Office Hours: MWF 1:00 – 3:00
T Th 12:00 – 12:30

Course Description: Topics include properties of real numbers; techniques of algebraic simplification; solving equations and inequalities; sets; functions; graphs; rational expressions; mathematical models; creating, interpreting and graphing functions. Particular focus is given to polynomial, exponential, and logarithmic functions. Discussion and instruction in proper mathematical organization, communication, and math-specific study skills is incorporated throughout the course.

Required Materials:
ALEKS: This program will be used for your learning, homework assignments, and knowledge checks. Get your ALEKS account by:
2. Register using your SFA email and course code: ETDQG-VNFUQ and Section: 050

The required textbook for this course is College Algebra (2nd Edition) by Julie Miller and Donna Gerken. The e-book comes with a subscription to ALEKS system.

Calculator: You will need a scientific calculator for this class. Graphing calculators may be used, but are not required. The calculator function of a cell phone or tablet will not be permitted during tests or quizzes. There is a great free scientific and graphing calculator at desmos.com.

Computer: You will need a laptop computer for this class. You will need to bring your laptop to class.

Course Requirements:
Attendance (physical and mental) is expected of all students. Being physically present while looking at phone or sleeping is not being present for class. Please do not have phones out during class. Missing in-class activities, instruction, quizzes, etc., will lower your daily average. You must make a commitment to attend every class, arrive on time, and to stay the entire time. Bring all necessary materials to each class, be attentive to the task at hand, take notes, and be prepared to participate in class discussions.

Daily Work: 20% of your grade will be determined by your daily average. This will include in-class quizzes, homework assignments in ALEKS, etc. You must make additional commitments of doing work outside of class and asking for help when you need it. The general rule of thumb regarding college studying is, that for each class, students should spend approximately 2-3 hours of study time for each hour that they spend in class. These assignments will not be accepted late and cannot be made up, but I will drop the three lowest daily grades at the end of the semester.
Exams: There will be three exams and a final exam each worth 20% of your grade. Please note that the dates for our in-class exams are subject to change, but the final is university scheduled and cannot be taken at a different time. The final exam is comprehensive and mandatory. Your final exam grade can be used to replace a low or missing exam grade. **Therefore, there will be no make-up exams.** If you miss an exam, your final exam grade will be substituted in place of the missing exam grade.

Grading:

Your overall grade will be determined using the following:

<table>
<thead>
<tr>
<th>Course Grade</th>
<th>90% - 100%</th>
<th>A</th>
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<tbody>
<tr>
<td>20% Daily Work Average</td>
<td>80% - 90%</td>
<td>B</td>
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<td>60% Exams (3 at 20% each)</td>
<td>70% - 80%</td>
<td>C</td>
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<tr>
<td>20% Final Exam (Comprehensive)</td>
<td>60% - 70%</td>
<td>D</td>
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<tr>
<td>&lt; 60%</td>
<td>F</td>
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Additional Help: Tutoring is available to you through the AARC and the math department. More information can be found here [http://www.sfasu.edu/aarc/tutoring](http://www.sfasu.edu/aarc/tutoring). Set up a tutoring schedule early for best results! A low score on exam 1 may result in required tutoring.

Tentative Course Calendar: I am going to do my best to adhere to what is in this course policy, but at any time I may have to change something here. If this happens, I will inform you in class. For those working ahead of this schedule, meet with me individually if you’d like to take exams earlier and finish early.

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>8/28 – 9/2</td>
<td>Introductions</td>
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<td>Initial Knowledge Check</td>
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<td>Basic Review</td>
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<td>2</td>
<td>9/4 – 9/9</td>
<td>Functions and Their Graphs</td>
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<td>Linear Functions</td>
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<td>3</td>
<td>9/11 – 9/16</td>
<td>Transformations</td>
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<td>Combining Functions</td>
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<td>4</td>
<td>9/18 – 9/23</td>
<td>Exam 1</td>
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<td>5</td>
<td>9/25 – 9/30</td>
<td>Quadratic Functions</td>
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<td>6</td>
<td>10/2 – 10/7</td>
<td>Polynomial Functions</td>
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<td>7</td>
<td>10/9 – 10/14</td>
<td>Rational Functions</td>
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<td>Inverse Functions</td>
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<tr>
<td>8</td>
<td>10/16 – 10/21</td>
<td>Exam 2</td>
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<tr>
<td>9</td>
<td>10/23 – 10/28</td>
<td>Exponential Functions</td>
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<td>10</td>
<td>10/30 – 11/4</td>
<td>Logarithmic Functions</td>
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<tr>
<td>11</td>
<td>11/6 – 11/11</td>
<td>Solving Exponential Functions</td>
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<td>12</td>
<td>11/13 – 11/18</td>
<td>Exam 3</td>
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<tr>
<td>13</td>
<td>11/20 – 11/25</td>
<td>Thanksgiving Break – no classes</td>
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<tr>
<td>14</td>
<td>11/27 – 11/2</td>
<td>Systems of Equations</td>
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<tr>
<td>15</td>
<td>12/4 – 12/9</td>
<td>Matrices</td>
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<tr>
<td>16</td>
<td>12/11 – 12/15</td>
<td>Final exam – Monday, December 11 at 1:00</td>
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MATH 0199 - Intermediate Algebra
Course Syllabus

Course Description: This non-credit course is designed to prepare students to be successful in SFA’s freshman entry-level credit math classes (MATH 1332, 1350, 1314, or 1324.) There is some overlap of topics with MATH 0398, but the treatment here is more in-depth. Topics include properties of real numbers, techniques of algebraic simplification, solving equations and inequalities, sets, functions and graphs, polynomials, rational expressions, radicals, and various applications. Discussion and instruction in proper mathematical organization, communication, and math-specific study skills is incorporated throughout the course. Graphing calculators are not permitted. Students must show all work.

Credit hours: 3

The following is an excerpt from SFA Policy 5.4:

The federal definition of a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

1. Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or;

2. At least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

To this end, all students in courses offered by the Department of Mathematics and Statistics that wish to be successful should plan to spend a minimum of two hours outside of class for every credit hour associated with this course. Expected activities to be completed in the time outside of class include reviewing notes from previous class meetings, reading assigned course resources, completing all assigned exercises and projects, and performing periodic assessment preparation.

Course Outline: Approximate Time Spent:

- Set of real numbers, inequalities, absolute value 15%
- Operations with real numbers
- Exponential notation and order of operations
- Translating and evaluating algebraic expressions
- Equivalent fractions, laws of real numbers
- Combining like terms, removing parentheses
- Properties of exponents

- Solving linear equations 20%
- Formulas and applications
- Applications of linear equations and problem solving
- Sets, intersection, union, interval notation, and set-builder notation
- Solving inequalities
- Solving compound inequalities

- Graphs of linear and nonlinear equations 20%
• Functions and graphs
  • Finding domain and range
  • Graphs and slopes of linear functions
  • Methods of graphing, horizontal and vertical lines, parallel and perpendicular lines
  • Finding equations of lines, applications

• Introduction to polynomials and polynomial functions 25%
• Multiplication of polynomials
• Introduction to factoring
  • Factoring trinomials: \( x^2 + bx + c \)
  • Factoring trinomials: \( ax^2 + bx + c, a \neq 1 \)
  • Factoring perfect square trinomials and differences of squares
• General strategies for factoring
• Solving polynomial equations, applications

• Multiplying, dividing, and simplifying rational expressions and functions 10%
• LCDMs, LCDs, addition and subtraction of rational expressions

• Solving rational equations 10%
• Radical expressions and functions
• Graphs of radical expressions
• Adding and multiplying radical expressions

**Student Learning Outcomes (SLO):** At the end of MATH 0199, a student who has studied and learned the material should be able to:

1. Recognize, name, and apply properties of real numbers.
2. Utilize algebraic properties to simplify and rewrite expressions.
3. Investigate the properties of exponents.
4. Solve linear and quadratic equations.
5. Solve applications involving linear and quadratic equations.
7. Perform operations on sets, and use proper set notation.
8. Investigate the characteristics of linear functions and their graphs.
9. Write linear models using real-life data.
10. Recognize shapes of non-linear functions by their equations and graph them.
11. Identify functions and use function notation.
12. Find the domain and range of functions from formulas and graphs.
13. Perform operations with polynomial expressions including factoring.
14. Perform operations on rational expressions.
15. Solve rational equations.
16. Simplify and perform operations on radical expressions.
17. Utilize algebraic concepts to strengthen problem-solving skills.
18. Write correct mathematical definitions using complete sentences.
19. Organize and communicate in proper mathematical form all of the steps involved in the topics above.
20. Create and use note cards, study pages, mind maps, self-quizzes, and other study techniques.

**Academic Integrity**

The Code of Student Conduct and Academic Integrity outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

Articles IV, VI, and VII of the new Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or
academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of the original source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one’s own academic work being offered for credit or in conjunction with a program course or degree requirements.

Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.

Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.

Withheld Grades Semester Grades (SFA Policy 5.5)
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average. The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C. For additional information, go to https://www.sfasu.edu/policies/course-grades-5.5.pdf.

Students with Disabilities
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices.

Student Wellness and Well-Being
SFA values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help, SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential.

**On-campus Resources:**
The Dean of Students Office (Rusk Building, 3rd floor lobby)
www.sfasu.edu/deanofstudents
936.468.7249
dos@sfasu.edu

www.sfasu.edu
To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person—mind, body and spirit. Services include:

- Health Services
- Counseling Services
- Student Outreach and Support
- Food Pantry
- Wellness Coaching
- Alcohol and Other Drug Education

Crisis Resources:

- Burke 24-hour crisis line: 1.800.392.8343
- National Suicide Crisis Prevention: 9-8-8
- Suicide Prevention Lifeline: 1.800.273.TALK (8255)
- Crisis Text Line: Text HELLO to 741-741

Acceptable Student Behavior

Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy 10.4). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom.

Date of document: 08/23/2023