Math 0199 and Math 1314 College Algebra

Course Policy - Fall 2021

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936-468-3805 (Math Dept.)

Class meeting information: MWF 9:00 – 9:50 and TTh 9:30 – 10:45 in room 203 of the Bush Mathematical Sciences Building

Office Hours: MWF 11:00 – 11:50, Tuesday 1:00 – 2:00, or by appointment

Course Description: These two courses will be treated as one course that meets every day. 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. This semester, our students get ALEKS at no cost. Get you ALEKS account by:
1. Go to www.aleks.com
2. Register using your SFA email and course code C3XWW-VN4NM

The required textbook for this course is College Algebra (2nd Edition) by Julie Miller and Donna Gerken. The e-book is free and 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. Calculators that include a solver such as the TI-89 or TI-Nspire and calculators that have a QWERTY keyboard are not allowed. The calculator function of a cell phone or tablet will not be permitted during tests or quizzes.

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

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. You must make additional commitments of doing work outside of class and asking for help when you need it.

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.

Daily Work: 20% of your grade will be determined by your daily average. This will include in-class activities, worksheets, quizzes, ALEKS assignments, etc. **These assignments will not be accepted late and cannot be made up, but I will drop the two lowest daily grades at the end of the semester.**

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.
Grading Policy
Your overall grade will be determined using the following:
- 90% - 100% A
- 80% - 90% B
- 70% - 80% C
- 60% - 70% D
- < 60% F

Course Grade

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 through D2L.

To see topics in each weekly objective, see ALEKS.

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/23 – 8/28</td>
<td>Syllabus and Intro to ALEKS Initial Knowledge Check Objective 1</td>
</tr>
<tr>
<td>2</td>
<td>8/30 – 9/04</td>
<td>Objective 2</td>
</tr>
<tr>
<td>3</td>
<td>9/06 – 9/11</td>
<td>Objective 3</td>
</tr>
<tr>
<td>4</td>
<td>9/13 – 9/18</td>
<td>Objective 4</td>
</tr>
<tr>
<td>5</td>
<td>9/20 – 9/25</td>
<td>Exam 1 Knowledge Check Exam 1 Objective 5</td>
</tr>
<tr>
<td>6</td>
<td>9/27 – 10/02</td>
<td>Objective 6</td>
</tr>
<tr>
<td>7</td>
<td>10/04– 10/09</td>
<td>Objective 7</td>
</tr>
<tr>
<td>8</td>
<td>10/11– 10/16</td>
<td>Objective 8</td>
</tr>
<tr>
<td>9</td>
<td>10/18– 10/23</td>
<td>Exam 2 Knowledge Check Exam 2 Objective 9</td>
</tr>
<tr>
<td>10</td>
<td>10/25– 10/30</td>
<td>Objective 10</td>
</tr>
<tr>
<td>11</td>
<td>11/01 –11/06</td>
<td>Objective 11</td>
</tr>
<tr>
<td>12</td>
<td>11/08 –11/13</td>
<td>Objective 12</td>
</tr>
<tr>
<td>13</td>
<td>11/15 –11/20</td>
<td>Exam 3 Knowledge Check Exam 3 Objective 13</td>
</tr>
<tr>
<td>14</td>
<td>11/22 –11/27</td>
<td>Objective 14 Thanksgiving week</td>
</tr>
<tr>
<td>15</td>
<td>11/29 –12/04</td>
<td>Objective 15 Final Exam Knowledge Check</td>
</tr>
<tr>
<td>16</td>
<td>12/06 –12/10</td>
<td>FINAL EXAM Wednesday, December 8- 8:00 – 10:00</td>
</tr>
</tbody>
</table>

See [http://www3.sfasu.edu/math/docs/syllabi/MATH1314Syllabus.pdf](http://www3.sfasu.edu/math/docs/syllabi/MATH1314Syllabus.pdf) and [http://www3.sfasu.edu/math/docs/syllabi/MATH0199Syllabus.pdf](http://www3.sfasu.edu/math/docs/syllabi/MATH0199Syllabus.pdf) for elements common to all sections.
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%

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• 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  
• 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  
• LCMs, LCDs, addition and subtraction of rational expressions

• Solving rational equations  
• 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**

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

The penalty for a student found cheating on any part of an assignment, quiz, or exam in this class will range from a grade of zero on the work to a grade of F in the course, and may result in additional, more severe disciplinary measures. A student who allows another to copy his work and the student copying the work are both guilty of cheating. Do your own work. Do not show your completed work to others. Do not allow others to copy your work.

**Definition of Academic Dishonesty (SFA policy 4.1):**

Academic dishonesty includes both cheating and plagiarism. Cheating includes, but is not limited to:
• using or attempting to use unauthorized materials on any class assignment or exam;
• falsifying or inventing of any information, including citations, on an assignment;
• helping or attempting to help other student(s) in an act of cheating or plagiarism.

Plagiarism is presenting the words or ideas of another person as if they were one’s own. Examples of plagiarism include, but are not limited to:
• submitting an assignment as one’s own work when it is at least partly the work of another person;
• submitting a work that has been purchased or otherwise obtained from the Internet or another source;
• incorporating the words or ideas of an author into one’s paper or presentation without giving the author credit.

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.

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.

SFASU Mental Health Statement: SFASU values students’ mental health and the role it plays in academic and overall student success. 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:
SFASU Counseling Services
www.sfasu.edu/counselingservices
3rd Floor Rusk Building
936-468-2401

SFASU Human Services Counseling Clinic
www.sfasu.edu/humanservices/139.asp
Human Services Room 202
936-468-1041

Crisis Resources:
Burke 24-hour crisis line 1(800) 392-8343
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. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

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