MTH 138.500 – College Algebra – Online – Fall 2018

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Office: Math 337

Class meeting time and place: Online course (www.mymathlab.com), Aug 27 – Dec 14

Office Hours: These hours have been set aside specifically to help students.

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<tr>
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<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<th>Friday</th>
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<td>8:30-9:30</td>
<td>1:00-2:00</td>
<td>8:30-9:30</td>
<td>1:00-2:00</td>
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Additional times are available by appointment.

Course description:
Mathematical models; solving equations; creating, interpreting, and graphing functions. Particular focus is given to polynomial, exponential, and logarithmic functions. Prerequisites: two years of high school algebra and one year of high school geometry and TSI complete/exempt status in mathematics.

Core Objectives (CO):
1. Critical Thinking [CO 1]: to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. Communication Skills [CO 2]: to include effective development, interpretation and expression of ideas through written, oral and visual communication
3. Empirical and Quantitative Skills [CO 3]: to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Student Learning Outcomes (SLO):
At the end of MTH 138, a student who has studied and learned the material should be able to:
1. Employ independence of thought and innovation in order to obtain solutions to typical algebraic problems. [CO 1]
2. Create, manipulate, analyze and solve algebraic equations and expressions, especially linear, quadratic, polynomial, rational, exponential and logarithmic expressions. [CO 1,3]
3. Connect graphical properties with those of associated functions or equations, and use these connections to communicate graphical or physical properties in algebraic language. [CO 2,3]
4. Read, interpret, and communicate written mathematics, both in prose and in its graphical or visual forms. [CO 2]
5. Use functions to model and solve real-world problems. [CO 1,3]
This is a general education core curriculum course and no specific program learning outcomes for the major in mathematics are addressed in this course.

Text and Materials:
The textbook is College Algebra, 12th edition by Lial, Hornsby, Schneider, Daniels. Chapters 1 thru 5 of the textbook will be covered in this course.

The majority of this course will be completed through My Math Lab at www.mymathlab.com. When you create your account, use the course ID dixon12755

You will need a calculator for this class. A scientific calculator with log capabilities will be sufficient. The calculator function of a cell phone will not be permitted during the midterm or final exam.
Course Requirements:
There will be two online exams, a face-to-face midterm, and a face-to-face final exam.

<table>
<thead>
<tr>
<th>Exam Type</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Online Exam 1</td>
<td>Friday, September 28</td>
<td>8 pm</td>
<td>Kennedy Auditorium</td>
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<tr>
<td>Midterm</td>
<td>Wednesday, October 17</td>
<td>4-8 pm</td>
<td>Kennedy Auditorium</td>
</tr>
<tr>
<td>Online Exam 2</td>
<td>Friday, November 16</td>
<td>8 pm</td>
<td>Kennedy Auditorium</td>
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The midterm and final exam are both face-to-face exams. They are both 2 hour exams and can be taken anytime between 4 and 8 pm on the above dates. You will need to show a valid student ID or driver’s license with a recognizable picture in order to take the exams. If you have a conflict with the dates and times above, or would like to take the exam at a proctored testing location other than SFA, let me know as soon as possible before the exam so that other arrangements can be made.

Grading Policy:
Your final grade will be determined as follows:

- 10% Discussions and Skills Check [CO 1,2,3] 90% - 100% A
- 15% MyMathLab Homework Assignments [CO 1,2,3] 80% - 90% B
- 15% MyMathLab Quizzes [CO 1,2,3] 70% - 80% C
- 10% Online Exam 1 [CO 1,2,3] 60% - 70% D
- 20% Midterm [CO 1,2,3] 0% - 60% F
- 10% Online Exam 2 [CO 1,2,3]
- 20% Final Exam [CO 1,2,3]
- 100% Final Course Grade

Discussions, assignments, quizzes, and exams will not be accepted late. Attempt all work well ahead of the due dates so that any mathematical and/or technical problems can be cleared up ahead of time.

General Education Core Curriculum:
The Texas Higher Education Coordinating Board has identified six core learning objectives: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills, Teamwork, Personal Responsibility, and Social Responsibility. SFA is committed to the improvement of its general education core curriculum by regular assessment of student performance on these six objectives.

By enrolling in MTH 138 you are also enrolling in a Core Curriculum Course that fulfills one of the core objectives requirement. You will see this course on your D2L list. At one point during the semester, you will receive an assignment that fulfills both the requirements of this course and the needs of Stephen F. Austin State University’s Core Curriculum Assessment Plan with the Texas Higher Education Coordinating Board. When you complete this one assignment, you need to upload the assignment to both your standard course dropbox determined by your Instructor and the “Core Curriculum” dropbox. The Core Curriculum dropbox will be identified by the Objective for which work is being collected. (Examples: Critical Thinking, Teamwork, Social Responsibility, Empirical & Quantitative Skills, Personal Responsibility, Communication Skills-Written, Communication Skills-Written & Visual, and Communication Skills- Oral & Visual.) Please note that this only applies to the approved assignment. All other assignments should be submitted according to regular class operations. If you have any questions, please see your Instructor or the Office of Student Learning and Institutional Assessment.

When you complete the assignment mentioned above, you will upload the assignment to both the MTH 138 dropbox and the core objective dropbox.

No assignment will be collected for this course during this semester.

Course Calendar:
Below is a tentative calendar for the course. It shows the topics covered along with the corresponding sections from the textbook. For each section, you must complete a MyMathLab Lesson containing video instruction about the topic. Once you have mastered the lesson, you will then complete a MyMathLab online homework assignment for each section of the textbook, along with MyMathLab online quizzes covering two or three sections each. You are also expected to complete a skills check/review and five discussions throughout the semester. See the Frequently Asked Questions document for more information.

See the Schedule of Due Dates for specific due dates.

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<thead>
<tr>
<th>Week</th>
<th>Topic/Exam</th>
<th>Sections in Textbook</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction and Skills Review</td>
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<tr>
<td>2</td>
<td>Linear Equations and Modeling</td>
<td>1.1, 1.2</td>
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<tr>
<td>3</td>
<td>Quadratic Equations and the Quadratic Formula</td>
<td>1.4, 1.5</td>
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<tr>
<td>4</td>
<td>Equations Involving Radicals, Fractions and Absolute Values Functions</td>
<td>1.6/1.8, 2.3</td>
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<tr>
<td>5</td>
<td>Online Exam 1 (MyMathLab)</td>
<td>1.1 - 2.3</td>
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<tr>
<td>6</td>
<td>Graphs of Functions</td>
<td>2.4, 2.5/3.6, 2.6</td>
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<td>7</td>
<td>Transformations and Algebra of Functions</td>
<td>2.7, 2.8</td>
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<td>8</td>
<td>Midterm (SFA Kennedy Auditorium)</td>
<td>1.1 - 3.1</td>
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<tr>
<td>9</td>
<td>Quadratic Models and Polynomials of Higher Degree Rational Functions</td>
<td>3.1, 3.4, 3.5</td>
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<td>10</td>
<td>Inverse Functions Exponential Functions</td>
<td>4.1, 4.2</td>
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<tr>
<td>11</td>
<td>Logarithm Functions</td>
<td>4.3, 4.4</td>
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<tr>
<td>12</td>
<td>Online Exam 2 (MyMathLab)</td>
<td>3.1 – 4.4</td>
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<td>13</td>
<td>Thanksgiving Break</td>
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<tr>
<td>14</td>
<td>Solving Exponential and Logarithm Equations</td>
<td>4.5, 4.6</td>
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<td>15</td>
<td>Solving Systems of Equations</td>
<td>5.1</td>
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<tr>
<td>16</td>
<td>Final Exam (SFA Kennedy Auditorium)</td>
<td>1.1 – 5.1</td>
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Additional Help:
Free tutoring is available from the AARC. The AARC is located in the library on the SFA campus. They offer one-on-one peer tutoring, the Math Walk-in Table, Power Hours, and Learning Teams.
- The hours for the Walk-in Table are 1pm to 8pm Monday through Thursday as well as 4pm to 8pm on Sundays.
- Power hours are TBA.
- Sign-ups for one-on-one tutoring and Learning Teams occurs during open enrollment. Open enrollment occurs August 29-30 from 11am to 6pm, September 26-27 from Noon until 5pm, and October 24-25 from 1 to 4 pm.

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 D-34.1). 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.

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/.

Academic Integrity (A-9.1):
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.
Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit. Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54):
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.