I. General Course Information

Phyllis McDaniel Summer 2010
MATH 0303
Intermediate College Algebra
3 Credit Hours (does not count toward a degree)
Prerequisite: Math 0302 or the equivalent

Course Description: This is a course for those who have insufficient preparation for college algebra or who have been out of high school for several years and need a review of algebraic fundamentals. Topics include linear equations, inequalities, systems of equations, polynomials and factoring, quadratic equations, functions, rational expressions, and graphing.

A series of basic intellectual competencies—reading, writing, speaking, listening, critical thinking, and computer literacy—are essential to the learning process in any discipline and thus should inform any core curriculum. Although students can be expected to come to college with some experience in exercising these competencies, they often need further instruction and practice to meet college standards and, later, to succeed in both their major field of academic study and their chosen career or profession. This course will further develop the following basic intellectual competencies.

Listening: Listening at the college level means the ability to analyze and interpret various form of spoken communication.

Critical Thinking: Critical thinking embraces methods of applying both qualitative and quantitative skills analytically and creatively to subject matter in order to evaluate arguments and to construct alternative strategies. Problem solving is one of the applications of critical thinking, used to address an identified task.

Computer Literacy: Computer literacy at the college level means the ability to use computer-based technology in communicating, solving problems, and acquiring information. Core-educated students should have an understanding of the limits, problems, and possibilities associated with the use of technology, and should have the tools necessary to evaluate and learn new technologies as they become available.

II. Student Learning Outcomes/Terminal Student Learning Outcomes

All Frank Phillips College courses required in the Associate in Arts and Associate in Science programs work together to meet the following student learning outcomes:

1. Establish broad and multiple perspectives on the individual in relationship to the larger society and world in which he or she lives, and to understand the responsibilities of living in a culturally and ethnically diverse world;
2. Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of life in order to understand ways in which to be a responsible member of society;
3. Recognize the importance of maintaining health and wellness;
4. Develop a capacity to use knowledge of how technology and science affect their lives;
5. Develop personal values for ethical behavior;
6. Develop the ability to make aesthetic judgments;
7. Use logical reasoning in problem solving; and
8. Integrate knowledge and understand the interrelationships of scholarly disciplines.

All Mathematics courses strive to meet the following Exemplary Educational Student Learning Outcomes as identified by the Texas Higher Education Coordinating Board:
1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.
3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.
5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
6. To recognize the limitations of mathematical and statistical models.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

In addition, the following student learning outcomes that are specific to Math 0303 will be met:
1. Develop algebra tools needed for further mathematics courses;
2. Demonstrate usefulness and appreciation of mathematics in many disciplines;
3. Solve linear equations, absolute values and inequalities;
4. Graph lines and linear inequalities;
5. Solve systems of linear equations;
6. Add, subtract, multiply, and divide polynomials;
7. Factor polynomials;
8. Evaluate basic operations on rational and radical expressions;
9. Use exponents and radicals;
10. Evaluate basic operations on complex numbers;
11. Solve quadratic equations;
12. Identify, evaluate, and graph functions.

*Course outline may be subject to change.

II. **Textbook and Other Required Materials**

  Students will need graphing paper.

III. **Classroom Policy and Instructor Expectations**

Cell Phone Procedure:

Cell Phones and Other Electronic Devices Procedure: Cell phones and electronic devices in the classroom create a distraction for both students and faculty. Cell phones are also considered suspicious during test taking. Therefore, Frank Phillips College outlines the procedure for handling cell phone usage in a classroom as follows:

1. First Offense: the student will be warned verbally by the instructor to turn off the cell phone or electronic device or by appropriate administrative personnel at distance sites. The instructor will make a notation of the infraction.
2. Second Offense: the student will be asked to leave the class period for the day and will receive zeros for any work done in class on that day; a student receiving instruction through remote connection at an off-campus site will be required to attend the class face to face in Borger from this class date forward.
3. Third Offense: the student will be administratively withdrawn from the class in which the infraction occurred and will receive no refund for the class.

Students should leave the college’s main number with an appropriate contact in case of an emergency.
Students will be required to complete daily (homework) assignments, pop tests, and major tests during this course. They will be strongly encouraged to participate in informal classroom discussions and to perform some exercises on the board. It is expected that all students conduct themselves in a manner conducive to an atmosphere necessary for higher education. Anyone failing to do so may be asked to leave and will not be allowed to return without the instructor’s permission. All make-up exams and quizzes will be alternate versions. **Late work will carry a 25-point penalty** and will not be accepted after the exam containing the assigned concept has been given.

**Note:** Cheating on Tests or quizzes will result in an automatic 0 on the test.

No cell phones in class.

Each student is expected to achieve class student learning outcomes. Essentials to successful learning include:

1. Willingness to learn;
2. Reading the material in the text;
3. Taking notes and reviewing notes before attempting assigned problems;
4. Completing assignments before the next class period;
5. Seeking assistance when needed – do not get behind;
6. Participating in class; and
7. Practicing in the Heroes Center or Trio Lab.

IV. **Additional/Supplemental References**

1. Tutors are available in the ARC Center.
2. The ARC Center has software/videos that correlate to each section of the text.
3. The mathematics section in the library has related books.
4. The following web sites may be useful.

   - [http://www.mathpower.com/tips.htm](http://www.mathpower.com/tips.htm)
   - [http://www.purplemath.com/stdysrvy.htm](http://www.purplemath.com/stdysrvy.htm)
   - [http://webster.commnet.edu/mathcenter/handouts/module.htm](http://webster.commnet.edu/mathcenter/handouts/module.htm)
   - [http://www.wwu.edu/depts/tutorialcenter/math.htm](http://www.wwu.edu/depts/tutorialcenter/math.htm)
   - [http://www.wtamu.edu/academic/anns/mps/math/mathlab/](http://www.wtamu.edu/academic/anns/mps/math/mathlab/)

VI. **Methods of Evaluation**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>Homework, lab assignments, quizzes</td>
<td>25%</td>
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<tr>
<td>Major Exams</td>
<td>50%</td>
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<tr>
<td>Final Exam</td>
<td>25%</td>
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**Grade Scale**

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90 – 100</td>
<td>A</td>
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<tr>
<td>80 – 89</td>
<td>B</td>
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<tr>
<td>70 – 79</td>
<td>C</td>
</tr>
<tr>
<td>60 – 69</td>
<td>D</td>
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<tr>
<td>Below 60</td>
<td>F</td>
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VII. Attendance Procedure:

If your class meets twice a week:

Regular attendance is necessary for satisfactory achievement. Therefore, it is the responsibility of the student to attend class in accordance with the following requirements:

A student must have **no more** than six absences. Students who miss more than the allowed number of absences will be administratively withdrawn; a student who has been administratively withdrawn due to excessive absences must contact the Dean of Instruction/Chief Academic Officer to petition for reinstatement. Such permission will be granted only for extenuating circumstances and will require appropriate documentation from the student.

Students will be notified of withdrawal through their student email accounts, so it is imperative that students check email frequently. Not checking email is not an excuse for missing the deadline to petition for reinstatement. Students wishing to petition for reinstatement have **48 hours from the time the e-mail is sent** notifying the student of administrative withdrawal, excluding weekends and holidays. Students who do not petition by the deadline WILL NOT be reinstated under any circumstances.

Students will be excused from class without penalty when either representing the College in an approved activity or having an approved reason for not attending. Reasons for absences must be approved by the instructor, and these exceptions do not relieve the student of the responsibility of making up the missed work as designated. Excused absences must be documented prior to the class period missed.

The purpose of the class lecture is to help prepare the student for daily assignments and tests. Attendance, therefore, is essential for maximum progress. Please come to class on time. Each student is responsible for all material covered in each class. If you miss a test, it must be made up before the next class. Makeup work may be submitted in the event of an excused absence; if prior approval of the instructor is granted. However, 75 will be the highest possible grade on any late homework or daily paper. Deduction of 2 points from the final average will occur for each absence over two unless otherwise approved by instructor. Students with 1 or less absences will gain one or two points to the final average. We will have a sign-in sheet each night. Students must adhere to the remediation attendance agreement. Students are required to spend one hour each week in the ARC Center or the Trio Lab. Off campus students will be using an equivalent learning lab environment. In summer and mini-term classes, students will be withdrawn upon the third absence.

VIII. Scans/or Core Competencies that will be addressed in the Class

1. Acquires and Evaluates Information
2. Interprets and Communicates Information
3. Participates as a Member of a Team
4. Applies Technology
5. Reading
6. Arithmetic
7. Mathematics
8. Listening
9. Decision Making
10. Problem Solving
11. Seeing Things in the Mind’s Eye
12. Reasoning
13. Responsibility
14. Self-Esteem
15. Honesty
IX. Next Recommended Course in Sequence

You should check your degree plan at the institution at which you intend to receive your terminal degree; however, in most institutions, including FPC, the next course is Math 1314, College Algebra.

X. Correlation to Stated Mission Goals of Frank Phillips College

1. Provide general college academic course for students who plan to enter senior colleges and universities with sophomore or junior standing;
2. Provide a classroom setting conducive to learning.
3. Provide, assist, and promote the use of learning resources in the classroom.
4. Participate in and contribute to the democratic society in which we live.
5. Acquire skills, facts, values, and attitudes necessary to function and contribute to our society.

*Please see me after class if you have a need requiring special accommodations.*

XI. Grievance Policy for Students

If you have a dispute concerning your grade or policies in this class, it is your responsibility to FIRST contact the instructor, either by e-mail or in person, to discuss the matter. Should things remain unresolved after this initial contact, please follow the procedures described in the Frank Phillips College Catalogue on pages 45 and 46. In the vast majority of cases, the matter can be resolved at the instructor/student level, and learning to communicate your concerns in a civilized manner is part of the college experience.

XII. Contact Information:

Instructor: Mrs. Phyllis McDaniel
Instructor Title: Instructor
Address: 504 Butadieno Borger, Texas 79007
Home Phone: 806-273-3835
Fax Number: 806-273-7312
E-mail: cfpmcdl@cableone.net, pmcdaniel@fpctx.edu