DMAT 0315-47251, 3 Credit Hours
Developmental Mathematics Algebra Support

FALL, 2019

Classes are Saturdays
Classes meet 9:00 a.m. to 11:50 a.m.
Room C314
AUGUST 26, 2019 to OCTOBER 16, 2019

| INSTRUCTOR(s): | CANDY REYNOLDS |
| OFFICE(s):    | N237          |
| TELEPHONE(s): | 214-391-1047  |
| EMAIL(s):     | ckreynolds@mesquiteisd.org or candyreynolds@dcccd.edu |
| EMAIL POLICY(s): | Will respond within 24 to 48 hours, not available on weekends after 12pm |
| OFFICE HOURS: | BY APPT ONLY |

INSTRUCTOR CONTACT INFORMATION:
My preferred method of contact is email. Please keep in mind that it is against the law (FERPA) for me to discuss grades with you via phone or email. See me in person if you need to discuss your personal academic progress or grades in this course.

COREQUISITE COURSE DESCRIPTION: This course is a study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. (3 Lec.)

PREREQUISITE:
Required: An appropriate assessment test score or DMAT 0305.

COREQUISITE/CONCURRENT
This is a corequisite course and requires continuous concurrent enrollment with MATH 1314.

STUDENT LEARNING OUTCOMES:
Upon successful completion of this course, students will:
1. Define, represent, and perform operations on real and complex numbers.
2. Recognize, understand, and analyze features of a function.
3. Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, radical, and rational
expressions.
4. Identify and solve absolute value, polynomial, radical, and rational equations.
5. Identify and solve absolute value and linear inequalities.
7. Connect and use multiple strands of mathematics in situations and problems, as well as in the study of other disciplines

COURSE MATERIALS:
SHOULD BE PURCHASED IN MATH 1314 AND ONLY NEEDS TO BE PURCHASED ONCE.
- Required: MyMathLab Student Access Kit

MYMATHLAB TECHNICAL SUPPORT:
- It is the responsibility of the student to contact MyMathLab Technical Support to resolve any technical issues. Please visit the following website for assistance:
  - https://www.pearsonmylabandmastering.com/northamerica/mymathlab/students/support/technical-support/index.html

CALCULATOR
A graphing calculator is required for this course. You may choose your own graphing calculator model; however, TI 83 or TI 84 version is strongly preferred. Graphing calculators may not be allowed during some examinations.

GRADING POLICY:
Your grade will be determined as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Assignment</th>
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<tbody>
<tr>
<td>5%</td>
<td>PARTICIPATION/ATTENDANCE</td>
</tr>
<tr>
<td>20%</td>
<td>HOMEWORK/QUIZZES</td>
</tr>
<tr>
<td>50%</td>
<td>CHAPTER TESTS</td>
</tr>
<tr>
<td>25%</td>
<td>FINAL EXAM</td>
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<td>100%</td>
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GRADING RATIONALE:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90 – 100 %</td>
</tr>
<tr>
<td>B</td>
<td>80 – 89 %</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79 %</td>
</tr>
<tr>
<td>E or F</td>
<td>0 – 69 %</td>
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FINAL EXAM:
A comprehensive, departmental final examination, which will represent at least 25% of the class grade, will be administered in all Math 1314 classes. This final exam will also count as part of our final grade in DMAT 0315.

ATTENDANCE POLICY:
You are expected to regularly attend all classes in which you are enrolled. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. You will sign in and out each day to receive credit for the day. If you arrive late or leave early will result in points deducted from the daily attendance grade. Please attend all classes. We only meet 7 times and one of the seven days is to take the final exam.

**DROP DATE:**
Last date to drop with a grade of “W” is **WEDNESDAY, FEBRUARY 27, 2019**.

**STANDARD OF CONDUCT/CLASSROOM CONDUCT/CLASSROOM ETIQUETTE:**
No food, drinks or tobacco products are allowed in Eastfield College classrooms. However; if your class is in a non-lab classroom your instructor may allow for food or drink.

Electronic Devices including, but not limited to cell phones of all types, pagers, calculators, PDA’s, imaging devices, two-way radios, CD players, DVD players, IPODS, and all other related devices must be stored out of sight and turned off while in the classroom. Violation of this rule may include a grade of “F” in the course and/or expulsion from the class.

**ADDITIONAL RESOURCES:**
The Math Tutoring Center provides FREE TUTORING to current Eastfield College students enrolled in a Mathematics or Developmental Mathematics course. Students are encouraged to take advantage of this free resource for additional help in their course work. Please visit the Math Tutoring Center located in the Learning Commons in L200, check eastfieldcollege.edu/tutoring, or call 972-860-7174 for more information.

**INSTITUTIONAL POLICY AND SERVICES:**
Institutional Policies relating to this course can be accessed from the following link: https://www.eastfieldcollege.edu/syllabipolicies

**LEARNING GOALS:**
This is a mathematics course in which you will learn to use, understand, and communicate about mathematical information. The course has five goals:

- **Communication goal:** You will interpret and communicate quantitative information and mathematical concepts using language appropriate to the context and intended audience.
- **Problem Solving goal:** You will make sense of problems, develop strategies to find solutions, and persevere in solving them.
- **Reasoning goal:** You will reason, model, and make decisions with mathematical and quantitative information.
- **Evaluation goal:** You will critique and evaluate quantitative arguments that utilize mathematical and quantitative information.
- **Technology goal:** You will use appropriate technology in a given context.

**COURSE COVERAGE:**
<table>
<thead>
<tr>
<th>Sections</th>
<th>Topics</th>
</tr>
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<tbody>
<tr>
<td>R1 – R7; 1.1 – 1.2, 1.4-1.6</td>
<td>The Set of Real Numbers; Operations with Real Numbers; Exponential Notation and Order of Operations; Introduction to Algebraic Expressions; Equivalent Algebraic Expressions; Simplifying Algebraic Expressions; Properties of Exponents and Scientific Notation; Solving Equations; Formulas and Applications; Sets; Inequalities; Interval Notation; Intersections and Unions; Compound Inequalities; Absolute-Value Equations and Inequalities</td>
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<tr>
<td>2.1 – 2.7; 3.1 – 3.4, 3.7</td>
<td>Graphs of Equations and Functions; Finding Domain and Range; The Algebra of Functions; Linear Functions: Graphs and Slope; Finding Equations of Lines; Applications; Systems of Equations in Two Variables; Solving systems of Equations by Substitution and Elimination; Applied Problems: Two Equations; Systems of Inequalities in Two variables</td>
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<tr>
<td>4.1 – 4.6, 4.8; 5.1 – 5.5</td>
<td>Introduction to Polynomials and Polynomial Functions; Multiplication of Polynomials; Introduction to Factoring; Factoring Trinomials and Special Factoring; Applications of Polynomial Equations and Functions: The Principle of Zero Product; Rational Expressions and Functions: Multiplying, Dividing, and Simplifying; LCMs, LCDs, Addition, and Subtraction of rational expressions; Division of Polynomials; Complex Rational Expressions; Solving Rational Equations</td>
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<tr>
<td>6.1 – 6.8</td>
<td>Radical Expressions and Functions; Rational Numbers as Exponents; Simplifying Radical Expressions, Addition, Subtraction, Multiplication and Division of Radical Expressions; Solving Radical Equations; Applications Involving Powers and Roots: Pythagorean Theorem; Increasing, Decreasing, and Piecewise Functions</td>
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**SYLLABUS REVISION:**
The guideline in this syllabus may be changed, deleted, or amended any time by the instructor. The attached course outline is intended as an aid in helping you know your responsibilities for the semester. It is possible that some changes in the course outline or class policies will be made during the semester. Any changes that are made to the class policies or course outline will be announced in class.

Last Revised: 08/02/2018