Term: (FALL 2019) 8-Week Course (FLEX 1)  
Course: DMAT-0315-47017  
Course Dates: 08/26/2019 – 10/16/2019  
Class Location:  
Tuesdays and Thursdays  
9:30 a.m. – 12:20 p.m.  
C214

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Dr. Alla Kelman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone:</td>
<td>972-860-7067</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:allakelman@dcccd.edu">allakelman@dcccd.edu</a></td>
</tr>
<tr>
<td></td>
<td>Instructor will reply to emails within 24-48 hours during week days. Not available on holidays and weekends.</td>
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<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

Office & Office Hours:  
OFFICE:  
BUILDING C, ROOM C210  
OFFICE HOURS:  
MW: 9:50 A.M. – 10:50 A.M.  
TTR: 1:00 P.M. – 2:00 P.M.  
During office hours instructor will see students and respond to emails on “first come, first serve” basis. If you need to see the instructor outside of office hours please make an appointment. Allow 24-48 hours for scheduling of all appointments.

STEM Division:  
C-Building, Room 202 | 972-860-7297

Course Drop Date:  
10/03/2019

Certification Date:  
08/31/2019

Disclaimer:  
The instructor reserves the right to amend this syllabus as necessary.

Institutional Policies:  
Eastfield College Institutional Policies  
(https://www.eastfieldcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx)

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:** An appropriate assessment test score or DMAT 0305.

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

The DMAT 0315 supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include 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.

This intervention is designed specifically for students in a co-enrollment (co-requisite) enrollment:
• as a mainstreamed intensifier providing contact hours for additional, just-in-time instructional support for the student’s success in the developmental math course, or
• as a contextualized and/or integrated mathematics skills instructional support for Math 1314 course.

**TEXTBOOK AND OTHER COURSE MATERIALS:**
- **THE BOOK IS USED FOR DMAT 0315 and MATH 1314 CLASSES AND ONLY NEEDS TO BE PURCHASED ONCE. IN THIS SECTION OF DMAT 0315 STUDENTS WILL BE PROVIDED WITH THE ACCESS TO COURSE CURRICULUM AND DO NOT NEED TO PURCHASE ACCESS.**
  ALEKS 360 access code, ISBN: 9781259722189
  Optional Textbook, ISBN: 9781259965920
  - The ALEKS Access Code will provide access to the ALEKS website where all of the homework will be done for the course. The ALEKS website includes an electronic copy of the text, video instruction, and many other helpful features.
- The TI-83 or TI-84 calculator is required for this course. This calculator may be check out from the Eastfield College library for DAY USE ONLY. It must be returned before the closing of the library on the same day.

**CALCULATOR:** Students are required to have access to a TI-83 or TI-84 calculator. Graphing calculators may not be allowed during some examinations. TI-NSPIRE CX CAS is not allowed in this class.

**MYMATHLAB TECHNICAL SUPPORT:**
It is the responsibility of the student to contact MyMathLab Technical Support to resolve any technical issues.
If you are having technical issues with MyStatLab, or require assistance with installing plug-ins or configuring your computer, you can contact Pearson Product Support team as follows:

Call Toll Free: 1-800-677-6337
Monday - Friday, 8 AM to 8 PM EST (US and Canada)
Sunday, 5 PM to 12 AM EST (US and Canada)

There is also a 24 hour website support for Live Chat: [http://mymathlab.com/contactus_stu.html](http://mymathlab.com/contactus_stu.html) or [https://www.pearsonmylabandmastering.com/northamerica/mymathlab/students/support/](https://www.pearsonmylabandmastering.com/northamerica/mymathlab/students/support/)

NOTE: Allow time for computer/internet problems -- do not wait until the last minute to submit work. You are expected to have a computer and internet access available to you. There are computers on campus, however access to them is only available when Eastfield College is open and only during operating hours. The website being down or your computer or internet access not working at the last minute is something you should expect. No extensions are given for any reason.

**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.

**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>10%</td>
<td>Weekly Topic Goals in ALEKS</td>
</tr>
<tr>
<td>30%</td>
<td>ALEKS Objectives</td>
</tr>
<tr>
<td>10%</td>
<td>Attendance and Participation</td>
</tr>
<tr>
<td>50%</td>
<td>Tests and Final</td>
</tr>
<tr>
<td>100%</td>
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**GRADING RATIONALE:**

<table>
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<tr>
<th>Letter Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90 – 100 %</td>
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<tr>
<td>B</td>
<td>80 – 89 %</td>
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<tr>
<td>C</td>
<td>70 – 79 %</td>
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<tr>
<td>F</td>
<td>0 – 69 %</td>
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**WEEKLY TOPICS IN ALEKS:**
Each week you will be required to complete 24 topics in ALEKS. If you can complete 3-4 topics per day Monday - Sunday you will reach this goal. The due dates for these topics are listed in ALEKS. Try working on your ALEKS assignments a little each day to avoid having to do 24 topics all at once. You will receive a grade based on the number of topics you completed per week. At the end of the course these grades will be averaged and count as 10% of your total course grade.

**ALEKS OBJECTIVE GRADES:**
Your ALEKS course has been designed with chapter based objectives. You will be working on a personalized learning plan that will allow you to master most (if not all) of the topics in these objectives by the end of the semester. At the end of the course you will receive a grade for the percent of each objective that has been completed. The grades for the objectives will be averaged. This average will count as 30% of your total course grade.

**ATTENDANCE AND PARTICIPATION:**
Attendance is a key component of success in this course. You will be required to attend class each day and will be given a daily attendance and participation grade for your work in the course. You must also be actively engaged in the course content for that day to receive full credit in this category. This is worth 10% of your total course grade.

**TESTS AND FINAL:**
At the completion of each chapter objective, an ALEKS test will be administered. Students will be allowed to complete the tests from home in the ALEKS homework system but will be required to abide by a STRICT due date for the Tests. STUDENTS WILL NOT BE ALLOWED TO COMPLETE THE TEST AFTER THE DUE DATES.

After completing all of the chapter objectives, a comprehensive, departmental final examination, which will represents 25% of the class grade, will be administered. Students will complete the comprehensive final exam during the exam period specified for the class. The students may use their calculator but not a cellphone! They will not be allowed to collaborate on the final exam. The test and final will account for a combined total of 50% of the class grade.

**POLICY ON MISSED TESTS AND ASSIGNMENTS:**
There are no make-up assignments in this class. All assignments have strict deadlines. Due dates are non-negotiable and can be viewed in ALEKS.
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.
Please note that for certification purposes, participation in the course is defined as students registering for the course and accessing course materials in ALEKS. If you have not logged into ALEKS and did not complete initial assessment assignment by the certification date you will not be certified.

You are expected to regularly log into ALEKS to complete work for the course in which you are enrolled. Students have the responsibility to consult with the instructor when a deadline cannot be met.

If a student is unable to complete a course (or courses) in which he/she is registered, it is the responsibility of the student to withdraw from the course by the appropriate date. (The date is published in the academic calendar each year and in each semester’s class schedule). If a student does not withdraw, he/she will receive a performance grade, usually a grade of “F”.

Students who are absent from class for the observance of a religious holiday may take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day of the semester, the student notified the instructor(s) that the student would be absent for a religious holiday. Sec. 51.911 TX Educ. Code.

STANDARD OF CONDUCT/CLASSROOM ETIQUETTE:
No food, drinks or tobacco products are allowed in Eastfield College classrooms. As with all communication, be sure that your comments are appropriate and respectful of the diversity of thought that exists in this course. All communication should promote a positive, safe and productive learning environment for all. Follow Rules of Netiquette every time conversing with me or your classmates online and face-to-face. Please see the following website for more information: https://www.eastfieldcollege.edu/au/fastfacts/legal/policies-for-syllabi/pages/fall-2018.aspx

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. In addition, TI-84 calculators are available for daily check-out in the library. Click on the following website for more information:
https://www.eastfieldcollege.edu/services/academic-support/tutoring/pages/default.aspx

STRATEGIES TO BE SUCCESSFUL:
• Attend every class.
• Ask questions.
• Work through ALEKS.
• Show all work.
• Check your answers.
• Make note of problems for which you have questions.
• Review class notes.
• STUDY FOR TESTS.

To successfully complete this course you must be diligent. Make sure you set aside a period of time each day that you can work on the material, and do not fall behind. Work ALL the assigned homework problems as a minimum, and more if you feel you have not quite mastered the material. If you have a problem, contact me immediately so that you don’t fall behind. The key to success in this course is doing your work every day!

COURSE OUTLINE:

<table>
<thead>
<tr>
<th>Sections</th>
<th>Topics</th>
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<tbody>
<tr>
<td>R2-R4; 1.1 – 1.2, 1.4-1.7, additional topics</td>
<td>Inequality symbols; graphing linear and compound inequality; set-builder and interval notations; division involving zero; signed fraction subtraction and division; exponents and square roots; combining like terms; distributive property; additive property of equality; multiplicative property of equality; solving two-step equations; solving linear equations; clearing fractions in equations; applications with linear equations; solving linear inequalities; solving absolute value equations and inequalities; simplifying fractions;</td>
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<tr>
<td>Section</td>
<td>Topics</td>
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<tr>
<td>2.1 – 2.3</td>
<td>Linear functions: graphs and slope; finding equations of lines; applications; finding x- and y-intercepts of lines; parallel and perpendicular lines</td>
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<td>4.1 – 4.8; 5.1 – 5.5</td>
<td>Exponents; power rule, quotient rule, and product rule of exponents; sum or difference of univariate polynomials; multiplying polynomials; introduction to factoring; factoring trinomials and special factoring; applications of polynomial equations and functions: finding roots of quadratic equations; expressions and functions: multiplying, dividing, and simplifying; LCMs, LCDs, addition, and subtraction of rational expressions; division of polynomials; complex fractions; solving rational equations</td>
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<tr>
<td>6.1 – 6.8</td>
<td>Simplifying radical expressions, converting between radical and exponent form, rational exponents, sum or difference of radical expressions, rationalizing denominators, solving radical equations, complex numbers</td>
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<tr>
<td>7.1 – 7.5, supplementary and additional topics</td>
<td>Solving quadratic equations (square root property, completing the square, quadratic formula), graphing parabolas, finding maximum or minimum of a quadratic function, application of quadratic functions, finding zeros of a quadratic function, finding range of quadratic function, writing the equation of a quadratic function given a graph, evaluating quadratic expression</td>
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Revised: 8/21/19