DMAT 0305 COURSE SYLLABUS
DEVELOPMENTAL MATHEMATICS
BROOKHAVEN COLLEGE
MATH/SCIENCE DIVISION

WORKTEXT: MyMathLab for INTROAlgebra with MyMathLab access code.
AUTHORS: Grimaldo & Robichaud
ISBN: 0321641280

This course will run using interactive software called MyMathLab. MyMathLab is online, textbook-based software where you will complete quizzes and homework. Students must have access to a computer with Internet to complete the required work for this course. Standard plug-ins are needed to access this tool. The web address for MyMathLab is http://www.pearsonmylabandmastering.com. Students must purchase a new worktext which includes the access code. Stand-alone access codes will not be available.

To enroll into your MyMathLab course you will need a course ID which will be given to you by your instructor. You can request temporary access but will only have access from the first day of the semester through day 14. After this point, you must enter a valid MyMathLab student access code. If the access code is not entered by that day, access to homework, quizzes and unit reviews will be suspended.

CATALOG DESCRIPTION: Prerequisite: An appropriate assessment test score or DMAT 0090. This is a course in algebra which includes operations on real numbers, polynomials, special products and factoring, and linear equations. Also covered are graphs, systems of linear equations, exponents, quadratics equations and an introduction to complex numbers. (3Lec.)

STUDENT LEARNING OUTCOMES:

1. Perform the four fundamental operations on the set of real numbers.
2. Solve linear equations.
3. Solve applications of linear equations including stated problems.
4. Graph linear equations in two variables.
5. Solve systems of linear equations in two variables using the graphing, addition and substitution methods.
6. Apply the definition and laws of integer exponents to simplify expressions.
7. Perform the four fundamental operations on polynomials.
8. Factor difference of square polynomials, perfect square polynomials, and general trinomials or with greatest common factor.
10. Applications of quadratic equations

CHAPTERS/UNITS COVERED:

Chapter 1: The Real Number System (omit section 1.7)
Chapter 2: Equations, Inequalities, and Applications (omit sections 2.4 and 2.6 - 2.8)
Chapter 3: Graphing Linear Equations and Inequalities (omit sections 3.5-3.7)
Chapter 4: Systems of Linear Equations and Inequalities (omit section 4.4)
Chapter 5: Exponents and Polynomials (omit section 5.8) Special section on complex numbers included
Chapter 6: Factoring Polynomials

Revised Fall 2014 (12-17-14)
This class meets in on SAT from 9:00 am to 11:55 am in room K133. For special help students are encouraged to come to the Math Lab, K137. Lab hours are posted on the door of K137. The Math Lab has videos and PC tutorials for this course.

**INSTITUTIONAL POLICIES**

**DROP/WITHDRAWAL POLICY:** Withdrawing from a course is a formal procedure which YOU must initiate; the instructor cannot do it for you. You may withdraw from a class in either the Admissions office or Advising Center. If you stop attending or are unable to complete this class and you do not withdraw before the official drop date, April 16, 2015, you will receive a performance grade, usually a grade of “F.” Students sometimes drop a class when help is available that would enable them to continue. Please discuss your plans with the instructor if you feel you need to withdraw. [https://www1.dcccd.edu/catalog/ss/oep/dw.cfm?use_nav=acad_info&loc=econ](https://www1.dcccd.edu/catalog/ss/oep/dw.cfm?use_nav=acad_info&loc=econ)

**STOP BEFORE YOU DROP (Does not apply to Developmental courses):** For students who enroll in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your college counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated six non-exempt drops, you cannot drop any other courses with a “W.” Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. [https://www1.dcccd.edu/coursedrops](https://www1.dcccd.edu/coursedrops)

**FINANCIAL AID STATEMENT:** Failure to attend classes could result in a loss of Financial Aid (FA). If you are receiving any form of financial aid, you should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

**INTERNATIONAL STUDENTS:** Students on an F-1 visa cannot withdraw from classes without jeopardizing their official status. If you are on an F-1 visa, you MUST NOT withdraw from any class without the permission of an International Student Advisor in the Multicultural Center, in Room S-136 or at 972-860-4192.

**RELIGIOUS HOLIDAYS:** A student shall be excused from attending classes, or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this provision may not be penalized for that absence and shall be allowed to take an examination or complete an assignment within a reasonable time after the absence.

**ADA STATEMENT:** If you feel you may need special assistance or accommodation (such as help with taking notes, extra time on tests, etc.) because of any type of physical disability or learning difference, please contact the Disability Support Services office in Room S136 or at 972-860-4673.

**FERPA:** The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. More information is available at [https://www1.dcccd.edu/catalog/about/privacy.cfm](https://www1.dcccd.edu/catalog/about/privacy.cfm)
**ACADEMIC INTEGRITY:** Scholastic dishonesty is a violation of the Student Code of Conduct and is punishable as stated in college policies. Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion. The purpose of the Student Code of Conduct is to provide guidelines for the educational environment of the Dallas County Community College District. This environment views students in a holistic manner, encouraging and inviting them to learn and grow independently. Such an environment presupposes both rights and responsibilities. For more information, refer to the [DCCCD Student Code of Conduct](https://www1.dcccd.edu/catalog/ss/code.cfm).

We, the Math Department of BHC, take issues of dishonesty very seriously. If a student is caught violating any policy of the Testing Center, or an instructor’s own policy for their particular class, the following consequences will be enforced: The minimum penalty a student will receive is a zero for the assignment/exam and the maximum penalty will be to receive an F for the course and/or academic suspension.

**CLASSROOM EXPECTATIONS:** The theme of this class is respect. I will treat you with respect and I expect the same treatment from you. In addition, I ask that you also be respectful to classmates. This means that you are not to interrupt your classmates or interrupt me when I am talking. Disparaging comments about classmates or about me will not be tolerated. Furthermore, cell phones ringing during class, text messaging during class, and arriving late to class are examples of rude and disrespectful behaviors. You are to arrive on time to class and turn off cell phones or put them on vibrate when entering the classroom. If you receive an emergency call, please step outside of the classroom to take the call. Text messaging is not allowed during class time.

Because disrespectful behaviors can sometimes become an issue, I’ve developed a policy that I will follow. Students who continue to display rude and disrespectful behaviors will be given a warning. If the behavior continues, students will be asked to leave the class. The student must meet with me before he/she can return to class.

**REPEATING THIS COURSE:** Each college of the DCCCD charges additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and continuing education/workforce training courses will result in additional tuition being charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts included courses taken at any of the DCCCD colleges since the Fall 2002 semester. [https://www1.dcccd.edu/catalog/ss/oep/third_attempt.cfm?loc=econ](https://www1.dcccd.edu/catalog/ss/oep/third_attempt.cfm?loc=econ)

**EVALUATION PROCEDURES**

Four tests and a comprehensive departmental final examination will be given. Tests 1, 2, 3, and 4 will each count 15% of the performance grade. The Final Exam will count 20% of the performance grade. The Final Exam score may replace the lowest test score for Tests 1, 2, or 3. Test 4 may not be dropped or replaced. The remaining 20% of the grade will come from homework assignments and quizzes completed online using MyMathLab, each will count 10% each towards your performance grade.

The scale used to determine the final course grade is:

- 90 to 100  A
- 80 to 89  B
- 70 to 79  C
- 0 to 69  F

Calculators are allowed in this course. A calculator that can compute signed numbers is recommended. The TI-89, TI-92 or TI-Nspire graphing calculators are not allowed on any test.

All tests will be administered in the Testing Center room S080. Cell phones and pagers are NOT allowed in the Testing Center. Permission Slips will be issued, by the instructor, prior to the test. Students must have a permission slip to take the test. The Permission slips will contain the testing code, due date, and information on testing times in the Testing Center.

Incomplete grades are given when an unforeseen emergency prevents a student from completing the work in a course. The division dean must approve all “I” grades.

Revised Fall 2014 (12-17-14)
GRADE REPORTS: Final grade reports are not mailed to students. You may obtain your final grades online at https://econnect.dcccd.edu/. From the student menu, select “My Grades” under “My Personal Information.” If you are not already logged in, you will be prompted to do so. Select the grade type you wish to review. Press the submit button and all grades for the selected grade type will be displayed.

INSTRUCTOR’S RIGHT TO MODIFY: The instructor has the right to add, delete, or revise segments of this course syllabus as necessary. All changes will be announced in class and made in writing which will be put on file in the division office.

IMPORTANT DATES:

January 19(M)  
January 20(T)  
February 2(M)  
February 19(R)  
February 20(F)  
February 23(M)  
March 9-13(M-F)  
March 16(M)  
April 3(F)  
April 6(M)  
April 16(R)  
May 11-14(M-R)  
May 14 (R)

Martin Luther King, Jr Holiday
Classes Begin
12th Class Day
Conference Day- day and evening classes will not meet.
Professional Development Day- Friday day classes will not meet. Friday evening, Saturday and Sunday classes will meet.
Classes Resume
Spring Break- College buildings & offices will be closed for the week.
Classes Resume
Holiday
Classes Resume
Last Day to Withdraw
Final Exams
Semester Ends
<table>
<thead>
<tr>
<th>DAY</th>
<th>TOPIC(S)</th>
<th>NOTES</th>
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| 1 | 1/17 | Introduction  
Students set up their binders. | Students have review homework assignments over 1.1-1.2 there will be no lecture over this material. |
| 2 | 1/17 | 1.3 Variables, Expressions, & Equations  
1.4 Adding Real Numbers | Students are highly encouraged to use a calculator that can compute signed numbers |
| 3 | 1/24 | 1.5 Subtracting Real Numbers  
1.6 Multiplying & Dividing Real Numbers |
| 4 | 1/24 | 1.8 Simplifying Expressions  
1.9 Applications of Real Numbers |
| 5 | 1/31 | 2.1 Solving Linear Equations:  
Addition Property |
| 6 | 1/31 | 2.2 Solving Linear Equations:  
Multiplication Property  
2.3 Solving Linear Equations: Fractions, Decimals and More |
| 7 | 2/7 | 2.5 Introduction to Problem Solving and  
Linear Applications |
| 8 | 2/7 | **Review for Test #1 over Chapters 1-2**  
Test in Testing Center. Students are encouraged to use a calculator |
| 9 | 2/14 | 3.1 Linear Equations in Two Variables  
3.2: Graphing linear Equations | Use graphing paper and a straight edge |
| 10 | 2/14 | 3.3 Slope of a Line  
3.4 Equations of Lines |
| 11 | 2/21 | 4.1 Solving Systems of Linear Equations:  
Graphing Method  
4.2 Solving Systems of linear Equations:  
Substitution Method |
| 12 | 2/21 | 4.3 Solving Systems of Linear Equations:  
Addition Method |
| 13 | 2/28 | 4.5 Applying Systems of Linear Equations |
| 14 | 2/28 | **Review for Test #2 over Chapters 3-4**  
Test in Testing Center |
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<tr>
<th>DAY</th>
<th>TOPIC(S)</th>
<th>NOTES</th>
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<tbody>
<tr>
<td>15</td>
<td>3/7 5.1 The Product Rule and Power Rules for Exponents</td>
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<td>16</td>
<td>3/7 5.2 Integer Exponents and the Quotient Rule</td>
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<td>5.3 Introduction to Polynomials</td>
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<td>17</td>
<td>3/21 5.4 Adding and Subtracting Polynomials</td>
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<td>5.5 Multiplying Polynomials</td>
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<td>18</td>
<td>3/21 5.6 Special Products</td>
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<td>5.7 Dividing Polynomials (by Monomial)</td>
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<tr>
<td>19</td>
<td>3/28 5.7 Dividing Polynomials (by Polynomial)</td>
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<td>20</td>
<td>3/28 5.9 Applying Polynomials</td>
<td>A handout for complex numbers is in the Course Document tab in MML</td>
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<td>Inserted Topic: Adding, Subtracting, &amp; Multiplying complex numbers</td>
<td>( i^2 = -1 )</td>
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<td>21</td>
<td>3/28 Review for Test #3 over Chapter 5</td>
<td>Test in Testing Center</td>
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<tr>
<td>22</td>
<td>4/11 6.1 The Greatest Common Factor</td>
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<td></td>
<td>6.2 Factoring Trinomials ( x^2 + bx + c )</td>
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<tr>
<td>23</td>
<td>4/11 6.3 Factoring Trinomials ( ax^2 + bx + c )</td>
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<tr>
<td>24</td>
<td>4/18 6.4 Special Factoring Techniques</td>
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<td>6.5 A General Strategy for Factoring</td>
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<td>25</td>
<td>4/18 6.6 Solving Quadratic Equations</td>
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<tr>
<td>26</td>
<td>4/25 6.7 Applying Quadratic Equations</td>
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<tr>
<td>27</td>
<td>4/25 Review for Test 4 over Chapter 6</td>
<td>Test in Testing Center</td>
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<td>Test #4 may not be replaced by the final exam.</td>
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<td>28</td>
<td>5/2 Final Exam Review</td>
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<td>29</td>
<td>5/2 Final Exam Review</td>
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<tr>
<td>30</td>
<td>5/9 Final Exam</td>
<td>Final Exam must be administered through the Testing Center and deadline should be set according to Final Exam Schedule</td>
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