DMAT 0310 COURSE SYLLABUS
INTERMEDIATE ALGEBRA
BROOKHAVEN COLLEGE
MATH/SCIENCE DIVISION


This course will run using interactive software called MyMathLab. Students must have access to a computer with Internet to complete the required work for this course.

Prerequisite:
An appropriate assessment test score or DMAT 0305.

Course Description:
This course is a study of relations and functions with special emphasis on linear and quadratic expressions and equations, including complex solutions. Also covered are absolute value, polynomial, radical and rational expressions and equations, and linear and absolute value inequalities. (3 Lec.)

Coordinating Board Academic Approval Number 3201045219DMAT

DMAT 0310 is the prerequisite for MATH 1414 and MATH 1324.

COURSE OBJECTIVES (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.

The following is an outline for the assessment breakdown for DMAT 0310, followed by chapters and sections:

9 Quizzes
Quiz #1 (1.5 – 1.7)
Quiz #2 (2.1 – 2.6)
Quiz #3 (5.1 – 5.4)
Quiz #4 (6.1 – 6.3)
Quiz #5 (6.4 – 6.5)
Quiz #6 (7.1 – 7.4)
Quiz #7 (7.5 – 7.7)
Quiz #8 (8.1 – 8.4)
Quiz #9 (8.5 – 8.6)

4 Exams
Exam #1 (Chapter 1 & 2)
Exam #2 (Chapter 6)
Exam #3 (Chapter 7)
Exam #4 (Chapter 8)

Revised SPRING 2017
This class meets on online from March 30 to May 11. For special help students are encouraged to come to the Math Lab, K137, during hours when tutors for your course are available. Consult your instructor or check the bulletin board in K137 for the appropriate hours.

**INSTITUTIONAL POLICIES**

Financial Aid Certification of Attendance:

You must attend and participate in your on-campus or online course(s) in order to receive federal financial aid. Your instructor is required by law to validate your attendance in your on-campus or online course in order for you to receive financial aid. You must participate in an academic related activity pertaining to the course such as but not limited to the following examples: initiating contact with your instructor to ask a question about the academic subject studied in the course; submitting an academic assignment; taking an exam; completing an interactive tutorial; participating in computer-assisted instruction; attending a study group that is assigned by the instructor; or participating in an online discussion about academic matters relating to the course. In an online class, simply logging in is not sufficient by itself to demonstrate academic attendance. You must demonstrate that you are participating in your online class and are engaged in an academically related activity such as in the examples described above.

**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 29**, 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**

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-124** 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.

**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. “Online MyMathLab Homework” and “Online MyMathLab Quiz” will each count 10% of the performance grade.

No make-up tests will be given and there will be no extensions of deadlines if tests are given in the Testing Center unless arrangements are made prior to the test deadline.

**Practice Tests** – Bonus Points. There are practice tests in MyMathLab to help you prepare for the tests. There is a practice test to correspond to each of the 4 tests in the class. You will have unlimited

Revised SPRING 2017
times to take each test and the highest score will determine the grade you will get. The grades will be calculated when the class takes the corresponding test (To get the points you must do the practice test before the test, you can take them after if you want, but you will not receive points for them).

**Bonus Point Scale:** If you make a 50-59 you get 1 point, If you make a 60-69 you get 2 points, if you make a 70-79 you get 3 points, if you make a 80-89 you get 4 points, if you make a 90-100 you will get 5 points. The points are added onto the corresponding test (Test 1, Test 2, Test 3, Test 4).

**Extra Credit!!**

For students that have an A homework average at the end of this semester, your instructor will replace your lowest test score (for Tests 1, 2, or 3) with your Final Exam grade. The grade on Test 4 (Chapter 8) cannot be replaced.

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

**GRADE REPORTS:** Final grade reports are not mailed to students. You may obtain your final grades online at [https://econnect.dcccd.edu/](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.

**TI Graphing calculator encouraged. TI-84 PLUS calculator recommended. NO TI-89 OR TI-92 OR TI-Nspire.**

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.

Cell phones are not appropriate in class. In addition, cell phones and pagers are no longer allowed in the Testing Center.

**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).

**INSTITUTIONAL EQUITY:** DCCCD policy, as well as federal and state laws, prohibits harassment, discrimination and sexual misconduct. More information about DCCCD institutional equity policies and resources is available at [URL for “Office of Institutional Equity Statement”]. To report a violation, contact Brookhaven College’s Title IX coordinator at TitleIX-BHC@dcccd.edu or 972-860-4825.

**INSTRUCTOR’S RIGHT TO MODIFY:** The instructor has the right to add, delete, or revise segments of this course syllabus.
## Spring Academic Semester, 2017

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>January 3</td>
<td>College Buildings and Offices Open -- staff and administrators return to work.</td>
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<tr>
<td>January 9</td>
<td>Faculty Reports</td>
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<td>January 16</td>
<td>Martin Luther King, Jr. Day Holiday</td>
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<tr>
<td>January 17</td>
<td>Classes Begin</td>
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<tr>
<td>February 23</td>
<td>TCCTA Faculty mtgs./Regular work day for employees. Day and evening classes will not meet.</td>
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<tr>
<td>February 24</td>
<td>TCCTA/Professional Development Day -- Faculty only. Regular work day for staff and administrators. Friday day classes will not meet. Friday evening, Saturday and Sunday classes will meet.</td>
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<td>February 27</td>
<td>Classes Resume</td>
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<tr>
<td>March 13-17</td>
<td>Spring Break -- College buildings and offices will be closed for the week.</td>
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<td>March 20</td>
<td>Classes Resume</td>
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<tr>
<td>March 25</td>
<td>12th Class Day</td>
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<tr>
<td>April 14</td>
<td>Holiday</td>
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<td>April 17</td>
<td>Classes Resume</td>
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<td>April 29</td>
<td>Last Day to Withdraw</td>
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<tr>
<td>May 4</td>
<td>Classes will meet-day and evening.</td>
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<td>May 5</td>
<td>Last class day for spring.</td>
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<td>May 8-11</td>
<td>Final Exams</td>
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<td>May 11</td>
<td>Semester Ends</td>
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<tr>
<td>May 15</td>
<td>Last Day for faculty to submit grades electronically through eConnect to the Registrar's Office</td>
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### Office of Institutional Equity Statement

The office of Institutional Equity, in coordination with DCCCD colleges, has the primary responsibility for reviewing, updating and implementing compliance policies and procedures. The Institution Equity and Compliance Officer and the Office of Institutional Equity will ensure compliance with College District policies, federal and state laws related to sexual assault, Title IX, Title II (American with Disabilities Act) and the Military Veterans Full Employment Act to support diversity and Inclusion.

### Students with Disabilities

If you are a student with a disability and/or special needs, or if you think you may have a disability, please contact the college Disability Services Office (DSO). Please note that all communication with DSO is confidential. If you are eligible for accommodations, please request that the DSO and send your accommodation letter to me as soon as possible (students are encouraged to contact DSO at the beginning of the semester). For more information regarding the College Disability Services Office, please visit the student Services website: [http://www.dcccd.edu/DSOffices](http://www.dcccd.edu/DSOffices) or contact DCCCD Office of Institutional Equity at 214-378-1633.
A Note on Harassment, Discrimination and Sexual Misconduct

We are committed to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and DCCCD policy prohibit harassment, discrimination and sexual misconduct. If you encounter harassment, sexual misconduct (sexual harassment, sexual assault, stalking, relationship violence, stalking), retaliation or discrimination based on race, color, religion, age, national origin, disability, sex, sexual orientation, gender identity, and/or gender expression, please contact your College Title IX Coordinator or the office of Institutional Equality. We treat this information with the greatest degree of confidentiality possible while also ensuring student welfare and college safety.

We are concerned about the well-being and development of our students, and are available to discuss any concerns. There are both confidential and non-confidential resources and reporting options available to you. If a students wish to keep the information confidential, please contact the college Counseling of Student Health Services. As required by DCCCD policy, incidents of discrimination and/or sexual misconduct shared with faculty will be reported to the College Title IX Coordinator or District Title XI Coordinator. The Title IX Coordinator will contact the student and determine if further investigation is needed. For more information about policies, resources or reporting options, please contact your college Title IX Coordinator or visit www.dcccd.edu/titleIX

Brookhaven Title IX Coordinator
Terri Edrich TitleIX-BHC@dcccd.edu 972-860-4825

District Title IX Coordinator
LaShawn Grant TitleIX-District@dcccd.edu 214-378-1633

DMAT 0310 – Intermediate Algebra
Intermediate Algebra with MML Access Code (Bundle)
Lial, Hornsby, McGinnis

<table>
<thead>
<tr>
<th>Week</th>
<th>SECTIONS</th>
<th>Homework</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intro course</td>
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<tr>
<td>3/19-3/25</td>
<td>1.5 – Linear Inequalities</td>
<td>1.5</td>
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<td></td>
<td>1.6 – Set Operations &amp; Compound Inequalities</td>
<td>1.6</td>
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<td></td>
<td>1.7 – Absolute Value Equations &amp; Inequalities</td>
<td>1.7</td>
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<tr>
<td></td>
<td>2.1, 2.2, 2.3 – Review Linear Equations</td>
<td>Quiz 1 (1.5 – 1.7)</td>
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<td>2.4 – Linear Inequalities in Two Variables</td>
<td>2.1, 2.2, 2.3</td>
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<td></td>
<td>2.5-2.6 – Functions (In 2.5 omit #45-68)</td>
<td>2.4</td>
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<tr>
<td></td>
<td>Practice Test 1</td>
<td>2.5-2.6</td>
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<td></td>
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<td>Quiz 2 (2.1 – 2.6)</td>
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<td>Due Friday Mar 24 at 11:45PM</td>
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<td>Test 1 due by SATURDAY MAR 25 in Respondus Lockdown Browser</td>
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<tr>
<td>Days</td>
<td>Topics</td>
<td>Additional Information</td>
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</tbody>
</table>
| 2/26-4/1  | 5.1 – GCF and Grouping  
5.2 - Factoring Trinomials  
5.3-5.4 - Special Factoring Review  
6.1 - Mult/Divide Rational Expressions  
6.2 - Add/Subt Rational Expressions | Quiz 3 (5.1 – 5.4)  
Due Friday Mar 31 at 11:45PM |
| 4/2-4/8   | 6.3 - Complex Fractions  
6.4 - Rational Equations (omit graphing rational functions)  
6.5 – Applications  
**Practice Test 2** | Quiz 4 (6.1 – 6.3)  
Quiz 5 (6.4 – 6.5)  
Homework due Friday Apr 7  
Test 2 due **SATURDAY APRIL 8** in Respondus Lockdown Browser |
| 4/9-4/15  | 7.1 - Radical Expressions *(In 7.1 omit Graphing)*  
7.2 - Rational Exp  
7.3 – Simplify Radical Expressions  
7.4 – Add/Subtract Radical Expressions | Quiz 6 (7.1 – 7.4)  
Due Friday Apr 14 at 11:45PM  
Friday April 14th is a holiday, if you want the day off, you are welcome to work ahead and get your homework done by Thursday April 13 |
| 4/16-4/22 | 7.5 - Mult/Divide Radical Expressions  
7.6 - Radical Equations  
7.7 - Complex numbers  
**Practice Test 3** | Quiz 7 (7.5 – 7.7)  
Due Friday Apr 21 at 11:45PM  
Test 3 due **SATURDAY APRIL 22** in Respondus Lockdown Browser |
| 4/23-4/29 | 8.1 - Square Root Property *(Omit Completing the Square)*  
8.2 - Quadratic Formula  
8.3 - Equations in Quadratic Form  
8.4 - Applications | Quiz 8 (8.1 – 8.4)  
Due Friday Apr 28 at 11:45PM |
| 7 | 4/30-5/6 | 8.5 - Graphing (*Omit quadratic modeling*)  
8.6 - Parabolas and Their Applications (*Omit horizontal parabolas*)  
**Practice Test 4** | 8.5  
8.6  
**Quiz 9 (8.5 – 8.6)**  
Due by Friday May 5 at 11:45 PM  
Test 4 due **SATURDAY MAY 6** in Respondus Lockdown Browser |
|---|---|---|
| 8 | 5/7-5/13 | Final Exam is comprehensive  
Final Exam due by **Thursday, May 11** at in Respondus Lockdown Browser | Final Exam due by **Thursday, May 11** at in Respondus Lockdown Browser |