Term: (FALL 2019) 8-Week Course: Session2
Course: MATH-1324-48025
Course Dates: 10/22/19- 12/12/19
Class Location: C315

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Ahmad Abdallah</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone:</td>
<td>972-391-1085</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:ahmadabdallah@dcccd.edu">ahmadabdallah@dcccd.edu</a></td>
</tr>
<tr>
<td>Office &amp; Office Hours:</td>
<td>C276</td>
</tr>
<tr>
<td></td>
<td>*Appointments may be granted and require a formal email request at least 72 hours in advance.</td>
</tr>
</tbody>
</table>

STEM Division: S-Building, Room 210 | 972-860-7297

Course Drop Date: 11/27/2019

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


INSTRUCTOR CONTACT INFORMATION
My preferred method of contact is ahmadabdallah@dcccd.edu. Make sure your emails are appropriately addressed if you expect a response (course and section number in the subject line and your full name as a signature)

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. **Email is the best way to contact me. Your email will be answered within 24 hours, except on the weekends/holidays. Those emails will be answered Monday in the order they were received.**

Course Description:
The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value. (3 Lec.)

COREQUISITE/CONCURRENT
The corequisite for this course is DMAT 0315-41010. (3 Lec.)

This is a corequisite course and requires continuous concurrent enrollment with DMAT 0315.
Student Learning Outcomes:
Upon successful completion of this course, students will:

1. Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solving real-world problems.
2. Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.
3. Apply basic matrix operations, including linear programming methods, to solve application problems.
4. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.
5. Apply matrix skills and probability analyses to model applications to solve real-world problems.

Core Objectives:
MATH 1324 develops the following Core Objectives:

1. Critical Thinking - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
2. Communication - to include effective development, interpretation and expression of ideas through written and visual communication.
3. Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Core Objective Development Statements:
MATH 1324 develops Critical Thinking, Communication, and Empirical and Quantitative Skills by requiring students to solve and analyze applications of various functions to management, economics, and business

Textbook and Other Course Materials:
- My Math Lab SHOULD BE PURCHASED IN MATH 1324 AND ONLY NEEDS TO BE PURCHASED ONCE.

- Microsoft Windows 7 and 8 users should use one of the following browsers with MyMathLab courses -- Chrome, Firefox or Internet Explorer 10 and 9. Click here for other system requirements. More info will be provided on the first day of class.

**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:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>25%</td>
<td>Homework</td>
</tr>
<tr>
<td>40%</td>
<td>Tests</td>
</tr>
<tr>
<td>25%</td>
<td>Final Exam</td>
</tr>
<tr>
<td>10%</td>
<td>Attendance/ In-Class Activities/ Participation</td>
</tr>
<tr>
<td>100%</td>
<td></td>
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</tbody>
</table>
Grading Rationale:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
</tr>
</thead>
<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>F</td>
<td>0-69 %</td>
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</table>

Final Examination:
A comprehensive final examination, which will represent at least 25% of the class grade. **ALL students are REQUIRED to take the final exam on the scheduled date set by the college.**

Tests: All students MUST show work on how they achieved the solution to every problem (including multiple choice questions) in order to receive credit for that problem. No credit will be given to the problem if the solution to the problem is correct but there is no supporting work shown.

Attendance / In-Class Activities: Attendance will be taken during each class period. 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. All students are expected to participate in class activities and group work, these assignments cannot be made up. If you miss a class, a grade of zero will be received.

Homework Problems/Quizzes (MyMathLab)
Your homework grade will consist of on-line homework assignments for each section. This class will use MyMathLab to complete homework assignments. Assignments will have due dates. However, assignments can be completed after due dates with 10% deduction for late submission. Periodic quizzes will be assigned on MyMathLab and must be completed by the assigned date.

Policy on Missed Tests and Assignments:
Make up assignments for tests will not be given. **Missed exam policy:** Make-up examinations will not be given. **NO MAKE-UP TESTS or RE-TESTS.** However, at the end of the semester, your final exam grade will replace one low or missed test grade if it is in the best interest of the student. To clarify this statement, your final exam grade still counts as 25% of your overall grade. But, if one of your test grades is lower than your final exam grade, I will replace that test grade with your final exam grade. If none of your test grades are lower than your final exam grade, then I will not replace any of them.

**You will not be able to make up the final exam under any circumstance**

Drop Date:
Last date to drop with a grade of “W” is **11/27/2019**

Standard of 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.
Be respectful of those around you and their property. Cell phones and other electronic devices should be turned off during class time. Laptops are permitted in class as long as they do not disturb other student around you and the programs used should only be those that the instructor approves of and that pertain to the class material for the Course … NO EMAIL, TEXTING or other types of communication tools should be used while in the classroom.
It is expected that you will arrive to class prepared to learn, on time, and stay for the duration of our class meeting. Please consult your instructor if you must arrive late or leave class early for an emergency.
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.

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 coursework. 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.

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

COURSE OUTLINE:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Sections</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch. 1</td>
<td>1.1, 1.2 (Covered in DMAT-0315)</td>
<td>Linear Equations and Inequalities, Graphs of lines.</td>
</tr>
<tr>
<td>Ch. 2</td>
<td>2.1 - 2.6 (All Sections)</td>
<td>Elementary, Quadratic, Exponential and Logarithmic Functions.</td>
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<tr>
<td>Ch. 3</td>
<td>3.1 - 3.4 (All Sections)</td>
<td>Simple interest, Compound interest, Future and Present value problems.</td>
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<tr>
<td>Ch. 4</td>
<td>4.1 – 4.6</td>
<td>Systems of linear equations, Matrix operations, Inverse of a Matrix and Matrix Equations.</td>
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<tr>
<td>Ch. 5</td>
<td>5.1 - 5.3</td>
<td>Inequalities in two variables, systems of inequalities and Linear Programming.</td>
</tr>
<tr>
<td>Ch. 6 (optional)</td>
<td>6.1, 6.2</td>
<td>Simplex Method.</td>
</tr>
<tr>
<td>Ch. 7</td>
<td>7.2 – 7.4</td>
<td>Sets, Counting Principle, Permutations and Combinations.</td>
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<tr>
<td>Ch. 8</td>
<td>8.1 – 8.3</td>
<td>Simple probability, Events and Conditional probability, Intersection and Independence.</td>
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</tbody>
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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.