INSTRUCTOR: Bill Bird  
EMAIL: bbird@dcccd.edu  

OFFICE: C236  
TELEPHONE: 972-391-1047  

CLASSROOM:  
www.coursecompass.com  
MEETING DAYS and TIMES: UMTWRFS (INET)  

OFFICE HOURS:  
BY APPOINTMENT 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.

COURSE DESCRIPTION:
In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. This course is the prerequisite for MATH 1316.

STUDENT LEARNING OUTCOMES:
Upon successful completion of this course, students will:
1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.

CORE OBJECTIVES:
MATH 1314 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 1314 develops **Critical Thinking, Communication**, and **Empirical and Quantitative Skills** by requiring students to solve and analyze applications of various functions and systems of equation.

**PREREQUISITES:**
Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 0310.

**COURSE MATERIALS**
- Textbooks NOT required
- My Math Lab Access Code purchase required
- Website: [http://pearsonmylabandmastering.com/](http://pearsonmylabandmastering.com/)

**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.

**GRADING RATIONALE**

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework &amp; Quizzes</td>
<td>30%</td>
</tr>
<tr>
<td>Module Tests</td>
<td>20%</td>
</tr>
<tr>
<td>Proctored Exams</td>
<td>50%</td>
</tr>
</tbody>
</table>

**GRADING POLICY - Online**
Your grade will be determined as follows:

A: 90-100%; B: 80-89%; C: 70-79%; F: below 70%

**DROP DATE**
Last date to drop with a grade of "W" is 11/29/19.
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”.

DROP POLICY
To drop a class or withdraw from the college, students must follow the prescribed procedure. It is the student’s responsibility to drop or withdraw. Failure to do so will result in receiving a performance grade, usually grade of “F”. No drop or withdrawal requests are accepted by telephone. Students who drop a class or withdraw from the College before the semester deadline receive a “W” (Withdraw) in each class dropped. The deadline for receiving a “W” is indicated on the academic calendar and the current class schedule. If you are unable to complete this course, you must withdraw from it by the date indicated above. For more information, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C 119.)

COURSE INTRODUCTION
You have enrolled in an online class. In this online class, you will work through individualized computer-based modules with the support and guidance of an instructor as needed. In addition to online instruction, individual assistance and full group instruction are available. You can always work ahead however, deadlines will be enforced. Don’t fall behind.

ATTENDANCE
You must have completed your first assignment in mymathlab BY MIDNIGHT ON 10/28/19 to be certified in the course. If you have not completed the first assignment by midnight on 10/28/19 you WILL NOT be certified in the course and this may impact your financial aid!

Classroom attendance is not required for this course; however, students are required to remain actively engaged with course curriculum. Please note that you are required to take two proctored exams on campus or using online proctoring services. Exams will be administered at the Eastfield College Testing Center, another approved testing location or online at www.proctoru.com. Please go to https://www.eastfieldcollege.edu/apply-reg/testing/pages/testcntrs.aspx for more information about testing center hours, policies, procedures, etc.

INSTRUCTIONAL COMPONENTS
This course is divided into modules. The components of each module are described below.

**Step 1:** Video – Video lecture introduces each section of module
  - Must be accessed before each homework assignment
  - Grade omitted from course average
  - Can be accessed after due date

**Step 2:** Homework – Consists of problems from each section
- Problem can be repeated until mastered – select “Similar Exercise” after each 3rd incorrect attempt
- All “Help” buttons available
- Can be accessed after due date
- Late problems penalized 10%
- Must be in “Homework,” not “Review” mode to save progress
- Problems saved individually
- 80% mastery required to proceed to next topic

**Step 3:** Quiz – Consists of problems that summarize multiple sections
- Problem can be repeated until mastered – select “Similar Exercise” after each 3rd incorrect attempt
- “Help” buttons not available
- Can be accessed after due date
- Late problems penalized 10%
- Must be in “Homework,” not “Review” mode to save progress
- Problems saved individually
- 80% mastery required to proceed to next topic

**Step 3:** Test Review (optional) – Helps prepare students for module test
- Must be accessed before proceeding to module test
- Score omitted from student grades
- Can be accessed after due date

**Step 5:** Test – Assesses student understanding of module
- Reviewed by student only immediately after submission
- Late submission not allowed

**Step 6:** Test Remediation (if necessary) – Practice skills not mastered
- Contains only problems not mastered in module test
- Each problem not mastered creates 2 similar remediation problems
- Score omitted from student grades
- 80% mastery required to access 2nd test attempt

**Step 7:** 2nd Test Attempt (if necessary) – Retest module concepts
- Reviewed by student only immediately following submission
- Lower Score (1st or 2nd attempt) omitted following 2nd attempt

**Step 8:** Test Remediation II (if necessary) – Practice skills not mastered
- Homework assignment containing only problems not mastered in 2nd module test attempt
- Each problem not mastered creates 2 similar remediation problems
- Score omitted from student grades
- 90% mastery required to access 3rd test attempt

**Step 9:** 3rd Test Attempt (if necessary) – Final test attempt permitted
- Reviewed by student only immediately following submission
- Lowest test attempt scores are omitted
PROCTORED EXAMS

After you have mastered the first 2 modules, you will be prepared to take your midterm exam. This course concludes with a comprehensive final exam.

Proctored Exam Policies:

- 33 multiple choice items
- Must be completed independently by scheduled exam time
- Administered in testing center
- No remediation option
- One attempt

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.

STRATEGIES TO BE SUCCESSFUL

1. Ask questions.
2. Read each chapter.
3. Show all work.
4. Check your answers.
5. Make note of problems for which you have questions.
6. 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 the schedule attached to this syllabus. 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.

INSTITUTIONAL POLICY AND SERVICES:

Institutional Policies relating to this course can be accessed from the following link: https://www.eastfieldcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx

RIGHT TO MODIFY

Your instructor and the Mathematics Department reserve the right to modify this syllabus as needed at any time throughout the semester.
COURSE COVERAGE

<table>
<thead>
<tr>
<th>Module</th>
<th>Sections</th>
<th>Topics</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>P1, 1.5-1.7, 2.1-2.2, 2.5-2.8</td>
<td>Real number system, Equations, Relations and Functions; Circles</td>
</tr>
<tr>
<td>2</td>
<td>3.1-3.6</td>
<td>Polynomial and Rational functions; Theory of Functions</td>
</tr>
<tr>
<td>3</td>
<td>4.1-4.5</td>
<td>Exponential, Logarithmic and Special functions</td>
</tr>
<tr>
<td>4</td>
<td>6.3-6.5, 8.1-8.3, 8.5</td>
<td>Progressions, The Binomial Theorem, Matrices, Determinants, mathematical reasoning skills, Sequences, Series and Applications</td>
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COURSE PACING CALENDAR

Week 1 – October 22 to October 26
- Orientation
- Video P1
- HW P1
- Module 1 - Quiz 1
- Video 1.5
- HW 1.5
- Video 1.6
- HW 1.6
- Video 1.7
- HW 1.7
- Module 1 - Quiz 2

ALL HOMEWORK FINAL DUE DATE IS SUNDAY AT MIDNIGHT

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<th>Week 3 – November 3 to November 9</th>
<th>Week 4 – November 10 to November 16</th>
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<tbody>
<tr>
<td>Video 2.8</td>
<td>Video 3.4</td>
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<td>HW 2.8</td>
<td>HW 3.4</td>
</tr>
<tr>
<td>Module 1 – Quiz 4</td>
<td>Module 2 – Quiz 2</td>
</tr>
<tr>
<td>Module 1 Test Review</td>
<td>Video 3.5</td>
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<tr>
<td>Module 1 Test</td>
<td>HW 3.5</td>
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<tr>
<td>Video 3.1</td>
<td>Video 3.6</td>
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<tr>
<td>HW 3.1</td>
<td>HW 3.6</td>
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<tr>
<td>Video 3.2</td>
<td>Module 2 – Quiz 3</td>
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<tr>
<td>HW 3.2</td>
<td>Module 2 Test Review</td>
</tr>
<tr>
<td>Module 2 – Quiz 1</td>
<td>Module 2 Test</td>
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<tr>
<td>Video 3.3</td>
<td><strong>MIDTERM EXAM DUE IN TESTING CENTER BY 11/16/19</strong></td>
</tr>
<tr>
<td>HW 3.3</td>
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<thead>
<tr>
<th>Week 5 – November 17 to November 23</th>
<th>Week 6 – November 24 to November 30</th>
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<tbody>
<tr>
<td>Video 4.1</td>
<td>Video 4.5</td>
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<tr>
<td>HW 4.1</td>
<td>HW 4.5</td>
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<tr>
<td>Video 4.2</td>
<td>Module 3 – Quiz 2</td>
</tr>
<tr>
<td>HW 4.2</td>
<td>Module 3 Test Review</td>
</tr>
<tr>
<td>Video 4.3</td>
<td>Module 3 Test</td>
</tr>
<tr>
<td>HW 4.3</td>
<td><strong>Have a great Thanksgiving</strong></td>
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<tr>
<td>Module 3 – Quiz 1</td>
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<tr>
<td>Video 4.4</td>
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<tr>
<td>HW 4.4</td>
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<tr>
<th>Week 7 – December 1 to December 7</th>
<th>Week 8 – December 8 to December 12</th>
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<tbody>
<tr>
<td>Video 6.3</td>
<td>Video 8.3</td>
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<tr>
<td>HW 6.3</td>
<td>HW 8.3</td>
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<tr>
<td>Video 6.4</td>
<td>Video 8.5</td>
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<tr>
<td>HW 6.4</td>
<td>HW 8.5</td>
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<tr>
<td>Video 6.5</td>
<td>Module 4 – Quiz 2</td>
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<tr>
<td>HW 6.5</td>
<td>Module 4 Test Review</td>
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<tr>
<td>Module 4 – Quiz 1</td>
<td>Module 4 Test</td>
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<tr>
<td>Video 8.1</td>
<td>Final Exam Due</td>
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<td>HW 8.1</td>
<td>ALL HOMEWORK DUE 12/12 Thursday</td>
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<tr>
<td>Video 8.2</td>
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<tr>
<td>HW 8.2</td>
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*MIDTERM EXAM: A MIDTERM EXAM MUST BE TAKEN IN THE TESTING CENTER C113 (AFTER TESTS FOR MODULES 1 & 2) BY 11/16/19

*FINAL EXAM: A FINAL EXAM MUST BE TAKEN IN THE TESTING CENTER C113 BY 12/12/19