Term: Fall 2019  08-Week Course  
Course: MATH-1314-48314  Course Dates: 10/22/19 – 12/12/19  
Class Location: C323  
Class Schedule: T R  11:00 AM - 12:50 PM

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Yefim Shnayderman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone:</td>
<td>972-310-1047</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:yefimshnayderman@dcccd.edu">yefimshnayderman@dcccd.edu</a></td>
</tr>
<tr>
<td>Office &amp; Office Hours:</td>
<td>C236 by appointments</td>
</tr>
</tbody>
</table>

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

Course Drop Date: October 3
Certification Date: August 31

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)

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Fall Academic Semester, 2019 (Monday-Thursday week)

Dates for Second 8 Week Fall Session

- October 22 (T) Classes Begin
- October 28 (M) 6th Class Day (Certification Date)
- November 27 (W)* Last Day to Withdraw*
- November 28 (R) Thanksgiving Holidays Begin
- December 2 (M) Classes Resume
- December 12 (R) Final Exams
- December 12 (R) Session Ends
- December 16 (M) Last day for faculty to submit grades electronically through eConnect to the Registrar’s Office.
- December 24 (T) College buildings and offices will be closed for the holidays at end of workday.

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. This course is cross-listed as Math 1414. The student may register for either Math 1314 or Math 1414, but may receive credit for only one of the two. (3 or 4 Lec.)

**Prerequisites:** College level ready in Mathematics algebra-based level.

**Textbook and Other Course Materials:**
  OR
- My Math Lab - 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.
- Students are required to have access to a TI-83 or TI-84 calculator. Graphing calculators may not be allowed during some examinations.

**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 equations.

**Grading Policy:**
The course grade will be determined as follows. Three tests and a Final Exam will be given. The average of the tests will count as 65% of the course grade, 5% will count on-line MyMatLab Homework, 5% will be for paper labs and the Final Exam will count as 25%.

\[
FGrd = 0.65*(T1 + T2 + T3 )/3 + 0.05*HW + 0.05*LAB + 0.25*Fl
\]

**Grading Rationale:** The Final Grade is Converted to a Letter Grade as:

- 90 - 100 = A
- 80 - 89 = B
- 70 - 79 = C
- 60 - 69 = D
- 50 - 59 = F
Final Examination:

A comprehensive, departmental final examination, which will represent 25% of the class grade, will be administered in all College Algebra classes.

Policy on Missed Tests and Assignments: MAKEUPS None will be Given. If you miss a Test, a Zero will be given for that Test. If a student miss a test by reason he has to take this test at different time as soon as possible. The Final Exam score will be substituted for the lowest Test Grade but not for Zero grade of missed Test. 1-2 Points may be added for perfect attendance and Participation.

Homework Assignments: Homework from MyMatLab very important source for learning this course. It gives you 5% of Final Grade.

Your Course Name: 2019FA-Math-1314-48314
Your Course ID: shnayderman11794

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. Instructor will control attendance using Attendance Report.

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 October 3. For more information, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C 119).

Drop Date:
Last date to drop with a grade of “W” is October 3 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. No cell phones, Laptops are allowed also.

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

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.

COURSE OUTLINE:

<table>
<thead>
<tr>
<th>Sections</th>
<th>Topics</th>
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<tbody>
<tr>
<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>
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<tr>
<td>3.1-3.6</td>
<td>Polynomial and Rational functions; Theory of Functions</td>
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<tr>
<td>4.1-4.5</td>
<td>Exponential, Logarithmic and Special functions</td>
</tr>
<tr>
<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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MATH 1314. 48314 – Fall 2019 – Course Schedule

Week 1

Day 1, Tuesday, 10/22  ecampus, Syllabus, MyMatLab, P.1
Day 2, Thursday, 10/24 Sections 1.5, 1.6, 1.7
Week 1 Homework  HW P.1, HW 1.5, HW 1.6, HW 1.7, Lab2, Lab3

Week 2

Day 3, Tuesday, 10/29  Sections 2.1, 2.2, 2.5
Day 4, Thursday, 10/31  Sections 2.6, 2.7, 2.8
Week 2 Homework  HW P.1, HW 1.5, HW 2.1, HW 2.2, HW 2.5, HW 2.6, HW 2.7, HW 2.8; Lab 7

Week 3

Day 5, Tuesday, 11/05  Review Test 1 (CHP P1, CHP 1, CHP 2). Complete Test 1 by Friday 11/08 in Testing Center (C-113)
Day 6 Thursday, 11/07  Sections 3.1, 3.2, 3.3
Week 3 Homework  HW 3.1, HW 3.2, HW 3.3, Lab 11

Week 4

Day 7, Tuesday, 11/12  Sections 3.4, 3.5, 3.6
Day 8, Thursday, 11/14  Sections 4.1, 4.2, 4.3
Week 4 Homework  HW 3.4, HW 3.5, HW 3.6, HW 4.1, HW 4.1, HW 4.2, HW 4.3, Lab12A, Lab 12B

Week 5

Day 9, Tuesday, 11/19  Sections 4.4, 4.5
Week 5 Homework  HW 4.4, 4.5, Lab 17

Week 6

Day 11, Tuesday, 11/26  Sections 6.3, 6.4, 6.5
Week 6 Homework  HW 6.3, HW 6.4, HW 6.5

Week 7

Day 12, Tuesday, 12/3  Sections 8.1, 8.2, 8.3
HW 8.1, HW 8.2, HW 8.3; Lab19
Day 13, Thursday, 12/5  Section 8.5, Review Chapters 6, 8.
8.5, Lab 20 Complete  Test 3 by Monday 12/9 in Testing Center (C-113)
Week 8
Day 14, Tuesday, 12/10  Final Exam Review
Day 15, Thursday, 12/12  Final Exam in classroom(C-323)

Syllabus Revision:
The guideline in this syllabus may be changed, deleted, or amended any time by the instructo

Revised: 06/21/19