STEM Division

MATH 1332-47310, 3 Credit Hours
Contemporary Mathematics (Quantitative Reasoning)
FALL 2019

Classes are Tuesdays and Thursdays
Classes meet 9:00 a.m. – 10:50 a.m.
Room C280 BLN

THIS IS A FAST TRACK 1 (8 WEEKS) LECTURE COURSE

This class will begin 08/26/19 and end 10/16/19.
Some course work must be completed over the Internet.

Instructor:
Deborah L. Rhoads

Contact Information:
Office: C236 FCETL (Faculty Center for Excellence in Teaching and Learning)
Office Hours: By appointment
Phone: 972.391.1047
Email Address: deborahrhoads@dcccd.edu
I will reply to emails within 24-48 hours during week days. Please state your name in all emails.

Course Description:
Intended for Non-STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability, and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered.

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

Textbook and Other Course Materials:
2. ALEKS Access code required.
3. Calculator: A scientific calculator required. A graphing calculator (e.g. TI-83 plus/ TI-84 plus) is recommended.
4. Spiral notebook, pocket folder with brads, and a pencil.
Student Learning Outcomes:
After completing this course, the student should be able to:
1. Apply the language and notation of sets.
2. Determine the validity of an argument or statement and provide mathematical evidence.
4. Demonstrate fundamental probability/counting techniques and apply those techniques to solve problems.
5. Interpret and analyze various representations of data.
6. Demonstrate the ability to choose and analyze mathematical models to solve problems from real-world settings, including, but not limited to, personal finance, health literacy, and civic engagement.

Core Objectives:
MATH 1332 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 1332 develops Critical Thinking, Communication, and Empirical and Quantitative Skills by requiring students to solve and analyze applications to at least one of the following: sets, logic, number systems, number theory, functions, probability and statistics.

Grading Policy: Your grade will be determined as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>In class participation:</td>
<td></td>
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<tr>
<td>Oral and Written</td>
<td>10%</td>
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<tr>
<td>Homework /ALEKS Objectives</td>
<td>25%</td>
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<tr>
<td>Group Project</td>
<td>10%</td>
</tr>
<tr>
<td>In Class Tests</td>
<td>20%</td>
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<tr>
<td>Review (s)</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
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An extra point is added to Final Exam for each day of Math Spot tutoring over 30 minutes for a maximum of 5 points.

Grading Rationale: A: 90-100%; B: 80-89%; C: 70-79%; D: 60-69%; F: below 60%

Final Examination:
A comprehensive, departmental final examination, which will represent at least 25% of the class grade, will be administered in all Introductory Statistics classes.
Policy on Missed Tests and Assignments. NO MAKE-UP TEST will be given for unexcused absences. Homework Assignments and their due dates are found in the MyMathLab website, www.coursecompass.com. A deduction of 10% will be taken off for every homework assignment that is late.

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.
You will receive a 100 points of each day you attend and a 0 for each unexcused absence.

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 Date:
Last date to drop with a grade of “W” is Thursday, October 3, 2019
Certification Date – Saturday, August 31, 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.

The use of Laptops, cell phones, and other electronic/communication devices are not allowed in class without instructor’s permission. Please turn off all such devices.

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 (Library) 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:

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<th>Sections</th>
<th>Topics</th>
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<td>Problem Solving</td>
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<td>Ch. 2</td>
<td>2.1-2.4</td>
<td>Set Theory.</td>
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<td>Ch. 3</td>
<td>3.1 - 3.4</td>
<td>Logic.</td>
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<td>Ch. 5</td>
<td>5.1-5.6</td>
<td>The Real Number System</td>
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<td>6.1-6.3</td>
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<td>Ch. 7</td>
<td>7.1-7.7</td>
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<td>Ch. 8</td>
<td>8.1,8.2</td>
<td>Measurement</td>
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<td>10.1-10.5</td>
<td>Probability and Counting techniques</td>
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<td>Ch. 11</td>
<td>11.1-11.5</td>
<td>Statistics</td>
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