STEM Division

MATH 1332-42490, 3 Credit Hours
Contemporary Mathematics (Quantitative Reasoning) - Online
Wintermester 2017-2018 (Spring 2018)

Instructor: Jonathon Verwys

Contact Information:
Office Hours: virtually, by appointment
Phone: (972) 860-7056
Email Address: jonathonverwys@dcccd.edu

Contacting the Instructor:
My preferred method of contact is email. I check my email every day, and you should expect a response from me within 24-48 hours. I am not available on weekends, so do not wait to try to get ahold of me if you need me. When you email me, please include the course title (Math 1332) and either the section number or the class meeting time in the subject line. Please also use correct English grammar as well as complete sentences.

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

Textbook and Other Course Materials:
2. MyMathLab Access Code purchase is required. 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. MyMathLab Course ID: verwys66418
3. Calculator: A scientific calculator required. A graphing calculator (e.g. TI-83 plus/ TI-84 plus) is recommended.

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:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>30%</td>
</tr>
<tr>
<td>Online Tests (4 at 10% each)</td>
<td>40%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
</tbody>
</table>

**Note:** The Final exam must be taken at an approved testing center. It is expected that you will take this exam at the Testing Center on Eastfield’s campus (Room C113), unless you contact your instructor as soon as possible to make other arrangements to take this exam at another approved testing center.

**Grading Rationale:**

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

**MASTERY LEARNING**

Mastery learning is a major tenant of this course. This means that you will not be able to proceed to the next topic until you have mastered the skills being covered. All homework requires mastery. For the purpose of this course, mastery is defined as a minimum score of 80%.

**FINAL EXAMINATION:**

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

**Policy on Missed Tests and Assignments:** Late homework assignments and quizzes will not be accepted. All assignments and tests have strict due dates, and no make up exams will be given. If you know in advance that you must miss an exam, please come see me as soon as possible.

**POLICY ON PROCTORED EXAMS**

Please note that you are required to take the proctored Final Exam on campus. Exams will be administered at the Eastfield College Testing Center. Please go to [http://www.eastfieldcollege.edu/ari/testing.asp](http://www.eastfieldcollege.edu/ari/testing.asp) for more information about testing center hours, policies, procedures, etc. If you are unable to take a test at Eastfield’s Testing Center, please contact me (the instructor) immediately so we can work out an alternative method.
ATTENDANCE POLICY
Classroom attendance is not required for this course; however, students are required to remain actively engaged with course curriculum. Any student that has NOT registered on MyMathLab AND has NOT completed the orientation assignment by 7 pm on Wednesday, December 13, 2017, will NOT be certified as having attended and consequently may be dropped from the class. 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”.

Students who are absent from class for the observance of a religious holiday may take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day of the semester, the student notified the instructor(s) that the student would be absent for a religious holiday. Sec. 51.911 TX Educ. Code.

Homework
All homework problems for this course are to be completed through My Math Lab. You are responsible for doing the problems over the material covered in class each day by the next class, checking your solutions, and asking your questions during the next class. Homework can be remediated as many times as necessary to achieve mastery. Deadlines are stated in My Math Lab. Late work will be penalized 10%.

Drop Date:
Last date to drop with a grade of “W” is Friday, December 22.

INSTITUTIONAL POLICY AND SERVICES:
Institutional Policies relating to this course can be accessed from the following link:

COURSE OUTLINE:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Sections</th>
<th>Topics</th>
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</thead>
<tbody>
<tr>
<td>Ch. 1</td>
<td>1.1-1.3</td>
<td>Problem Solving and Critical Thinking.</td>
</tr>
<tr>
<td>Ch. 2</td>
<td>2.1-2.5</td>
<td>Set Theory.</td>
</tr>
<tr>
<td>Ch. 3</td>
<td>3.1 - 3.7</td>
<td>Logic.</td>
</tr>
<tr>
<td>Ch. 5</td>
<td>5.1-5.6</td>
<td>Number Theory and the Real Number System.</td>
</tr>
<tr>
<td>Ch. 8</td>
<td>8.1 – 8.4, 8.6 – 8.8 (skip 8.5)</td>
<td>Consumer Mathematics and Financial Management.</td>
</tr>
<tr>
<td>Ch. 12</td>
<td>12.1, 12.2</td>
<td>Statistics</td>
</tr>
</tbody>
</table>

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.