

Math 101
Fall 2012

Instructor: Steve Stein, PhD
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8:00 AM Office hour (and upon request)
teaching M-F 9:00 Math 101
10:00 Math 130
2:00 Math 130
T/Th 11:00 & 1:00 EFC 210

steinst@cwu.edu please note email address (steinST@cwu.edu).

Course Summary: Math in the modern world is mathematics for students who want a better understanding of the real-life mathematics that all people face. It is especially designed for those who have struggled with mathematics in the past. The course stresses the application of mathematics to personal and social issues, rather than stressing the abstract ideas found in many mathematics courses. This course will include projects as part of the course content. The desired outcome of the inclusion of projects is to prepare students to function in real-life situations and to integrate quantitative reasoning as part of that process.

At CWU, Math in the Modern World is often selected to satisfy a General Education requirement for graduation. It is real-world applicable and serves to prepare students for mathematics that will be encountered in other core courses. It also helps to develop a student's ability to reason quantitatively to achieve success in their future careers and personal lives. Basic course goals include:

- Becoming familiar with techniques from many branches of mathematics.
- Developing the ability to analyze quantitative information critically.
- Investigating real-world problems creatively.
- Understanding to connections between various mathematical methods.
- Using technology to help solve problems, experiment, interpret results and verify conclusions.
- Determining the reasonableness of solutions.
- Appreciating that the procedure for solving a problem is a important as the answer.
- Communicating knowledge in both everyday and mathematical language.

Special points of interest:

- I am shifting the focus of the course from the traditional teach concept and test concept to teach, assess (teaching and learning)—with quizzes, and demonstrate (through projects).
- You are assigned homework and quizzes on Math XL. These will be part of your grade for the course. Since you are taking quizzes out of class, I have adjusted the calendar so that every second quiz results in a class where we do not meet.
- Daily homework is assigned, but not collected. Send me an email with problems that you would like done for you in class. These need to get to me by 6:00 AM.
- There will be four quizzes, four projects and a final exam. A 3x5 note card can be used on the final.
- Grades based on total points calculated to the nearest whole number and will reflect the CWU grade scale.
- My family will invite students from class to our home for dinner.

Necessities:

- Come to class! Math requires a daily commitment
- Textbook: *Mathematics A Quantitative Reasoning Approach* (Bennet & Briggs) and Math XL.
- Scientific calculator: should have graphing capabilities (I will usually use a TI-83+)
- Participate in class—ask questions! I want to help!
- Communicate with the instructor...email, office hours...
- Take advantage of the Math Learning Center in Hertz Hall. Tutoring is available!

Quiz One—complete the math autobiography and give it to me in my office within the first 6 days of class

Assigned Problems

Section	Exercises
3A	18, 20-23, 25, 61-66, 69, 70, 74, 76, 82, 83, 85, 86, 89, 92, 94, 95, 97, 98, 103, 104, 107, 109
3C	22-24, 45-63 odd, 67
3D	15, 16, 21, 23, 27, 29-33, 40, 41, 44, 46
3E	15, 17, 20-22, 25-33 odd, 34
5C	19-22, 25, 27, 28, 36, 37, 39, 45, 46, 48, 56, 57
5D	19, 22-24, 26, 27, 42, 44, 45, 47, 50, 52
4A	19-23, 26, 29-33 odd, 37, 51, 53, 59-63 odd
4B	19-24, 43, 45, 51-55 odd, 61, 67, 73, 75, 79, 81, 87-91 odd
4C	19-24, 45, 49, 53-61 odd, 67-79 odd, 83, 87, 91, 103
4D	17, 19-21, 23, 27, 35, 37, 41-45 odd, 51, 62
12A	19-25, 34, 35, 37, 39-41, 43, 46, 47
12B	15-20, 22, 23, 25-27, 29, 30-36 even, 37, 39-42, 45, 46, 52-56, 62
12C	19-23, 29, 31, 37, 41, 43, 51
8A	1-5, 15, 16, 19, 21, 24
8B	19-22, 35-43 odd, 49-51, 53, 59, 63, 65
8C	17, 18, 21, 22, 24, 25-29 odd, 31-34,
9B	17, 31, 32, 35, 37
9C	17-20, 37, 39, 51