

Central Washington University

Course title and number:

Math 101-001

Course offered: Fall 2015.

Credits: 5 credit hours

Instructor contact information: Dr. Frank Underdown Jr.; Cell# 509-989-5533 (please, no call after 9:00 pm); email:Contact me through Canvas

Course time & place: MoTuWeThFr

08:00 – 08:50am, Bouillon Hall 109

Note(s):

- 1) I will upload additional course materials to Canvas
- 2) You will also be able to communicate with me via Canvas.
- 3) I plan to make us of MyMathLab during this course.

Office: Black Hall room 225-34

Office hours: 10:00 – 11:00am Mon - Fri

Textbook: Using & Understanding Mathematics: A Quantitative Reasoning Approach, 6th ed, by Bennett & Briggs

Course Content: Chapters 1 to 10

Equipment: Scientific calculator and computer

CATALOG DESCRIPTION: Selected topics from the historical development and applications of mathematics together with their relationship to the development of our present society.

PREREQUISITE: either at least 500 on the SAT, 19 on the ACT, a Compass test score of either 50-Pre-Algebra, 26-Algebra, 31-College Algebra, or 31-Trigonometry, or completed MATH 100B or a higher level math class.

Purpose of course:

This is a transition course. The purpose of the course is to help you shift from focusing on mastering procedures (emphasied in K-12) to mathematical thinking. Thus, we study the HOW (list of procedures) and the WHY (formal reasoning) of mathematics. This will prepare you to develop the formal thinking that is needed to master higher level math courses.

Measurable Goals:

- 1) Thinking Critical. The student will know how to apply formal logic, sets and Venn diagrams to

think critically in everyday life.

- 2) Be comfortable and proficient with basic graphing procedures in the Cartesian coordinate system and algebraic manipulation of functions (formulas). This may include but is not limited to:
 1. Working with introductory mathematical models: Linear models, quadratic models, higher degree polynomial models, exponential models and logarithmic models.
- 3) Be comfortable and proficient with numerical and symbolic manipulations. This includes practice with percentage and fractional manipulations. This numerical and symbolic manipulation may include but is not limited to:
 1. Working with and analyzing statistical data and commonly used statistical formulas (e.g. normal distributions and related topics).
 2. Working with financial formulas as pertains to compound interest, loan payments, annuities, etc.
 3. Working with basic counting techniques, i.e., permutations, combinations and applications to probability.
- 4) Mathematical modeling: The application of mathematics to model real world systems.

Outline of Course:

This is the intended schedule for the class. My plan is to cover a chapter per week. However, it is not unusual to be a day or so behind or ahead of this proposed schedule, but we will cover the material in this order.

Week 1: Thinking Critically

Week 2: Approaches to Problem Solving

Week 3: Numbers in the Real World

Week 4: Managing Money

Week 5: Statistical Reasoning

Week 6: Putting Statistics to Work

Week 7: Probability: Living with the Odds

Week 8: Exponential Astonishments

Week 9: Modeling Our Real World

Week 10: Modeling with Geometry

Important Dates:

September 23, 2015, classes begin
 November 11, 2015, Veterans Day, No classes
 November 25-27, Thanksgiving Recess, no classes
 December 4, 2015, Classes end, last day of instruction
 December 7 – 10, Final Exam week

Final Exam _____ / The week before official final week

ASSESSMENT METHODS AND GRADING SCALE

Your grade will be based on the following:

Homework 25%

Quizzes 50%

Final exam 25%

The grading scale follows:

Decimal	Percent age %	Decimal	Percent age %	Decimal	Percent age %
4	95	2.8	83	1.6	71
3.9	94	2.7	82	1.5	70
3.8	93	2.6	81	1.4	69
3.7	92	2.5	80	1.3	68
3.6	91	2.4	79	1.2	67
3.5	90	2.3	78	1.1	66
3.4	89	2.2	77	1	65
3.3	88	2.1	76	0	<64
3.2	87	2	75		
3.1	86	1.9	74		
3	85	1.8	73		
2.9	84	1.7	72		

Attendance policy: Attendance is mandatory. Three or more unexcused absences will result in you failing the course. You will be responsible to do your homework and take exams on time. Only if you have a pre-approved absence, or documented family/medical emergency will you be allowed to make up the work.

ACADEMIC HONESTY

As members of the Central Washington University learning community, students are not to engage in any form of academic dishonesty. Forms of academic dishonesty include, but are not limited to,

plagiarism, cheating, fabrication, grade tampering, and misuse of computers and other electronic technology. Students who engage in academic dishonesty may receive an academic penalty or a disciplinary penalty or both. The disciplinary consequences of engaging in any form of academic dishonesty include reprimand, probation, suspension, and dismissal. A student who knowingly helps or attempts to help another individual to violate the University's policy on academic honesty also may be subject to academic as well as disciplinary penalties.

EXAMS:

1) Work exams by yourself. Do NOT collaborate on exams. Any students who collaborate on the exam will receive a zero on the exam.

2) Do NOT go to the help center to get help working on your exams. The center has been instructed to take your exam if you do. Any students who use the help center to complete their exams, will receive a zero on the exam.

STUDENTS REQUIRING SPECIAL ACCOMMODATION

Central Washington University provides reasonable accommodations to students with disabilities. Students who need course accommodations because of a disability, have emergency medical information, or need special arrangements in case the building must be evacuated, should notify their instructors as soon as possible.