Math 105
Sections 4, 5, & 7

Instructor: Mark Lutz  Office: Corbin 269  Phone: 243-5466  e-mail: lutzm@mso.umt.edu
Office Hours: MW 8:30 – 9:30, MW 1:15 – 2:00, and by appointment.
Course Coordinator: First person to see with complaints, questions, etc. about this course that cannot be
resolved with the instructor.
Lauren Fern  Office: Math 205B  Phone: 243-5398  e-mail fern@mso.umt.edu


Course Content: Number sense and graphing (Chapters 2 & 3) Personal Finance (Chapter 4), Probability
and Statistics (Chapters 5 & 6), and additional topics determined by available time.

Catalog Description: (from http://www.umt.edu/catalog/mathsci.htm)

U 105 Contemporary Mathematics 3 cr. Offered every term. An introduction to mathematical ideas and
their impact on society. Intended for students wishing to satisfy the general education mathematics
requirement.

Class Web Page: http://www.math.umt.edu/105

Prerequisite: MATH 095D or appropriate placement score.

Grading:
If you are taking this class to meet general education requirements, you must select the traditional
grade rather than Credit/no credit. Any arrangements for the make-up of missed tests must be
scheduled prior to the test date. If a test is missed without making prior arrangements, the test
grade will be recorded as a 0.

Quizzes/Homework 30 percent of final grade
Tests (At least 3) 70 percent of final grade
Final (Comprehensive and Optional) May replace test scores

Grades will be assigned using the scale:
100-90% A - A-
89-80 B+ - B –
79-70% C+ - C –
69-60% D - D –
Below 60% F

Free Tutoring:
MLC - TBA
math@Mansfield - TBA

Quizzes:
Quizzes will be given at various times during the semester. Some of them may be unannounced.
The lowest quiz score will be dropped and a quiz grade will be obtained by averaging the
remaining scores. Make-up quizzes WILL NOT be given.

Homework:
The learning of mathematics requires participation in the process of doing mathematics. There will
be assignments made each class. Clarity of exposition is important and you should strive for well-
written, polished solutions. For the most part, collaboration on homework with other members of
the class is allowed, although solutions must be submitted individually and collaborators must be
acknowledged. Homework will not be accepted late for credit.

Attendance:
Students are expected to attend class, and class attendance is a component of the course grade.
Your final average for the course will be reduced by 1% for each class missed after three.
You are allowed 3 absences (this includes both excused and unexcused absences) without penalty.
If you must miss a class, notify me prior to class. Always hand in a paper with your name on it
even if you do not have your assignment so that you get credit for attendance.

Materials needed:
Calculator, textbook, writing instrument, computer access with spreadsheet capability, and paper.
Graphing calculators may not be shared on quizzes or tests.
Learning Goals:
To attain some degree of mathematical literacy, including an ability to read mathematical material and write using mathematical notation correctly.
To develop skills to think and reason mathematically in order to function more effectively in the modern world
To examine ways in which mathematics is used, to follow and understand logical arguments, and to solve applied quantitative problems (This includes learning to formulate a problem precisely, to interpret solutions, and to make critical judgments in the face of competing formulations and solutions)
To understand elementary probability concepts and phenomena: including sample spaces with equally likely outcomes, the basic parameters (mean, standard deviation), the normal distribution, and a qualitative view of the Central Limit Theorem
To understand elementary statistical concepts, such as data description, statistical estimation, randomization, and statistical inference
To explore and examine several other aspects of contemporary mathematics (This could include, but is not limited to, management science e.g. graph models for network problems, social choice and decision making e.g. elections, voting, fair division, Congress apportionment, or applied geometry e.g. symmetry, tilings, growth rates

Notes About the Course:
This course is designed to illustrate several ways in which mathematics is used in the “real world”. We will explore some topics of general interest which are not typically taught in a formal mathematics class. The goal is for you to see not only how useful mathematics is, but also how beautiful and elegant it can be.

Incomplete (I) Grades:
To be eligible for an “I”, the following conditions must be met:
1. The student must have been in attendance and passing the course up to 3 weeks before the semester ends; and
2. The student is unable to complete the course due to extenuating circumstances, which usually means serious illness or death in the family.
Incompletes are not given under any other circumstances and are always given at the discretion of the instructor. See the 2011-2012 catalog for further information.

Special Accommodations:
Students with disabilities are welcome to discuss accommodations with me. Cases will be dealt with individually.

Important University-Wide Information:
From the Academic Officers of The University of Montana: “All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. This Code is available for review online at http://www.umt.edu/SA/VPSA/index.cfm/page/1321.”

I reserve the right to make necessary adjustments in this syllabus. You will be notified of any changes.

Holidays and Finals:
- Mon Sept 3  Labor Day (no classes)
- Tue Nov 6  Election Day (no classes)
- Mon Nov 12  Veteran’s Day Holiday (No classes)
- Nov 21 – Nov 23  Thanksgiving Holiday (No classes)
- Fri Dec 7 (4:30 pm)  Last Day to petition for a drop or change of grading option
- Tue Dec 11 (8:00 – 10:00)  Final Examination for Section 4
- Wed Dec 12 (8:00 – 10:00)  Final Examination for Section 5
- Thu Dec 13 (8:00 – 10:00)  Final Examination for Section 7