

Eastern Wyoming College
Mathematics Department
Spring 2013

Course: MATH 1000 Problem Solving (3 credit hours)

Time & Location: Sec 01: MWF 1:00-1:55 TEB 116
Sec 40/90: MW 5:15-6:50 pm TEB 270

Instructor: R.A. Darnell, FAC 102
rick.darnell@ewc.wy.edu
307-532-8256
Office Hours: As posted, and by appointment.

Course Content Information

Description: This course is specifically designed to satisfy basic mathematics requirements at many colleges for students not planning to enroll in MATH 1400 or a calculus course. The course treats modern topics chosen for their applicability and accessibility; it provides students with the mathematical and logical skills needed to formulate, analyze, and interpret quantitative argument in a variety of settings. Statistics is introduced and the use of a calculator is stressed in the course.

Prerequisite: MATH 0920 with a grade of "C" or better, or appropriate score on mathematics placement exam within one year prior to registering for the course, or an ACT math score of 21, or consent of instructor.

Course objectives: Upon successful completion of the course, the student will be sufficiently proficient in basic algebra skills to complete the course with a grade of C or better and move on to the next level. Specific objects and materials to be covered are listed in the course schedule.

Book: Available online through MyMathLab.com! DO NOT BUY THE BOOK! You are required to purchase access to MyMathLab.com, which has an electronic copy of your textbook (Bennett, J, & Briggs, W. *Using and understanding mathematics, 5th edition*. Addison-Wesley), all homework problems and exams, plus additional resources.

Calculator: A TI-83/84 or equivalent. Calculator use may be prohibited on some exams and quizzes. Tutoring is STRONGLY ENCOURAGED and is available for free in the Learning Skills Lab (Tebbet 140). At my discretion and availability, group homework tutorials may be available in the evening. Scheduling will be announced in class.

Course Expectations

Attendance: A student at Eastern Wyoming College is expected to attend all sessions of each course in which the student is enrolled. Active participation in all scheduled learning activities is essential for the student to satisfactorily achieve the educational objectives of any course.

Therefore, in accordance with EWC policy, you will be dropped from this class in the event of:

- a) The student's absences in the course for any reason exceed 20% of the scheduled sessions (10 sessions for the afternoon section, and 7 for the evening section) for the semester
- b) The student has been absent for six consecutive class meetings

A student who is withdrawn from a course on or before the school's official last day to drop classes will receive a grade of W (Withdrawn) for the course. A student who is withdrawn after the official last day to drop classes will receive either a grade of F, W, or IW (instructional withdrawal) (Eastern Wyoming

College General Catalog, pages 45-46). As an instructor, I have the option of either withdrawing or failing students who abandon class and/or have excessive absences.

The deadline for a student to withdraw is April 25, 4 pm.

To maintain compliance with financial aid requirements, I will be recording attendance without prejudice. Absences due to school activities will be noted as such. ***It is the student's responsibility to inform me of these absences in advance*** so any quizzes, exams, or assignments may be submitted or scheduled in advance of the absence. ***Any quizzes, exams, or assignments missed without prior notification may not be made up***, with the exception of serious illness or family death (documentation required).

Course Evaluation

Homework will be assigned for all sections. It is your responsibility to do this work, check your answers in the back of the book, and ask for confirmation of solutions and methods in class and with classmates. Homework is available and completed online through MyMathLab. Each unit must be completed with at least an 85% success rate before unlocking access to the next section. All homework must be completed before you can take a unit exam. Homework is worth 10% of your course grade.

Projects are extended problems outside the regular homework, and may include problems related to the current topics or critical-thinking problems. This is 50% of your course grade.

Exams are available online and timed through MyMathLab.com. They are open-book, open-note, will not need a proctor, and will need to be completed on your own outside of class time. Exams will make up 40% of your course grade.

Classroom behavior

All students in this course are expected to be respectful of other participants, the instructor, and of the learning environment. In the support of free and open academic inquiry, civil behavior is required. This includes but is not limited to:

- restricting comments to current topics in the course
- refraining from disparaging or insulting remarks directed at or about others (present or not)
- silencing cell phones and other extraneous electronic devices
- limiting comments and conversations with classmates to a very quiet minimum

As a general rule, if the behavior will add to the learning environment, it is acceptable. If it disrupts the learning environment, it is not.

Students are expected to be well-motivated and constructive in their pursuit of learning in the instructional situation. Expected student conduct is outlined in the Student Code of Conduct.

Class Communication

Outside of regular class time, all communication with students as a group or individually will be through LancerNet. Be sure and check this account regularly.

Class cancellation due to severe weather, disaster, or emergency will be announced through the EWC website, and KGOS (1490 AM) and KERM (98.6 FM). Notifications will also be made through the LancerAlert system.

ADA Compliance

Eastern Wyoming College is committed to providing information, accommodations services, and agency referral to students with any type of physical or cognitive disability. Our goal is to promote the independence and self-sufficiency of students with disabilities, and encourage the provision of equal opportunities in education for students with disabilities at Eastern Wyoming College as mandated by

Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 and the ADA Amendments Act of 2008.

Any student enrolled at Eastern Wyoming College who has a documented cognitive or physical disability is eligible for accommodative services. Students with cognitive disability concerns should contact Debbie Ochsner (532-8238), and students with physical disability concerns should contact Tom McDowell (532-8330).

Disclaimer

Information in this syllabus is considered correct and complete when distributed at the beginning of class. However, this syllabus should not be considered a contract between Eastern Wyoming College and the student. The instructor reserves the right while acting within the policies and procedures of EWC, to make changes in course content and instructional technique as necessary to meet the requirements and goals of the course.

Math 1000 Tentative Schedule & Outline (Spring 2013)

Week 1	Chapter 1 (Propositions & truth values)
Week 2	Chapter 1 cont'd (sets and Venn diagrams)
Week 3	Chapter 1 cont'd (critical thinking) Chapter 1 exam
Week 4	Chapter 2 (Unit analysis and problem solving)
Week 5	Chapter 3 (Percentages)
Week 6	Chapter 3 cont'd (perspective, uncertainty)
Week 7	Chapter 3 cont'd (Indices, deception)
Week 8	Chapter 3 exam
Week 9	Chapter 4 (Compounding and interest), Chapter 8 (linear versus exponential growth)
Week 10	Chapter 4 cont'd (Loans and credit cards)
Week 11	Chapter 4 exam Chapter 5/6 (Fundamentals of statistics, characterizing data, variation)
Week 12	Chapter 5/6 cont'd (variation, same/different, correlation and causation)
Week 13	Chapter 5/6 exam Chapter 7 (Fundamentals of probability, law of large numbers, assessing risk)
Week 14	Chapter 9 (Mathematical modeling, function notation, exponential growth revisited)
Week 15	Chapter 7, 9 exam Topics from the Arts and Politics
Week 16	Topics from the Arts and Politics Final exam review
FINAL EXAM	<i>FINAL EXAM DATE IS NOT NEGOTIABLE AND MAY NOT BE TAKEN EARLY</i> <i>Sec 01: 1:00-2:45 Wednesday, May 8</i> <i>Sec 40/90: 5:15-6:50 Wednesday, May 8</i>