MATH 123  MATH IN MODERN SOCIETY
(3 credits)

Spring 2008                                                            Office: Shields 206-D
Associate Professor: Randy Berriochoa                                  Office Hours: 9 - 10 a.m. M,W,F
Class Meetings: 11 - 12:30 a.m. T,Th Shlds 203                          10 - 11 a.m. T,Th
Office Phone: 732-6822                                                  Math Lab: 1 - 2 p.m. F
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Course Description: This survey course is designed for liberal arts and technical students. The course provides an opportunity to acquire an appreciation of the nature of mathematics and its relation to other aspects of our culture. The course is rigorous but not rigid. Core topics include critical thinking, problem solving, number systems, number theory, ratios, proportions, quadratic equations, functions, graphs, consumer math, financial management, metric measurement, set theory, and selected topics from geometry, probability and statistics. Prerequisites: Math 025 with a grade of “C” or better or Math Placement Test. (Algebra 46 – 61)

Scientific Calculator

Course Objectives: Students will demonstrate a working knowledge of the material covered in the textbook.

Outcomes Assessment: As part of departmental analysis of outcomes in this course and its place in the Mathematics program, student completion of the pre-requisite, success in the current course, success in subsequent courses and student satisfaction will be reviewed by the instructor. A report containing this information will be submitted by department faculty to determine what, if any changes can be made to improve the course in terms of content, focus and instruction.

Grade Determination: 3 regular exams @ 100 points each
1 final exam @ 100 points

Students may replace 1 regular exam with their worksheet average.

360 - 400 points  A
320 - 359 points  B
280 - 319 points  C
240 - 279 points  D
0 - 239 points  F

Policies and Procedures: Although attendance is not a factor in grade determination, each student is, of course responsible for any material covered and any assignments and announcements made in regularly scheduled class meetings. Cheating will result in all involved students getting 0’s for that activity. Allow yourself an adequate amount of time to complete the homework. Math help is available in Shields 207. Math is not a spectator sport. You can use a scientific or graphing calculator.

Behavioral Policies: Students can refer to catalog pages 15-16.

Turn off cell phones.
Spring 2008  MATH 123  (tentative schedule)

Jan. 15 Sect. 1.1  (Intro) Inductive & Deductive Reasoning  
    17 Sect. 1.2  Estimation & Graphs

  18 Spring
       20 Break

  22 Sect. 1.3  Problem Solving
  24 Sect. 2.1  Basic Set Concepts
    Sect. 2.2  Venn Diagram & Subsets

  29 Sect. 2.3  Venn Diagrams & Set Operations
  31 Sect. 2.4  Operations & Diagrams with Three Sets
    Sect. 2.5  Surveys and Cardinal Numbers

  25 Sect. 7.6  Log. & Quad. Functions
  27 Sect. 8.1  Percent
    Sect. 8.2  Simple Interest

  22 Exam 1
    07 Review
     08 Sect. 4.1  Hindu-Arabic & Positional Systems
     10 Sect. 9.1  Metric Length

  12 Sect. 5.1  Prime & Composite Numbers
  14 Sect. 5.2  Integers

  04 Mar. Review Sect. 6.6  Solving Quadratic Equations
     06 Sect. 7.1  Graphing & Functions
          Exam 2

  19 Sect. 5.3  Rational Numbers
  21 Sect. 5.4  Irrational Numbers
    Sect. 5.5  Real Numbers & Properties

  26 Sect. 5.6  Exponents & Scientific Notation
  28 Sect. 5.7  Arithmetic & Geometric Sequences
    Sect. 6.4  Ratios, Proportions & Variations

  22 Sect. 11.2  Permutations
  24 Sect. 11.3  Combinations
    Sect. 12.1  Samples, Freq. Distr.

  29 Sect. 12.2  Measure Cent. Tendency
      May  01 Sect. 12.3  Measure of Dispersion
    Sect. 12.4  Normal Distribution

  05 Mar. Review Sect. 7.2  Linear Functions & Graphs
     06 Sect. 7.3  Systems of Eq. With Two Variables
     07 Sect. 7.6  Exponential Functions

  11 Exam 2
     13 Exams
On-line course evaluation statement: Students are strongly encouraged to complete evaluations at the end of the course. Evaluations are very important to assist the teaching staff to continually improve the course. Evaluations are available online at: [http://evaluations.csi.edu](http://evaluations.csi.edu). Evaluations open up two weeks prior to the end of the course. The last day to complete an evaluation is the last day of the course. During the time the evaluations are open, students can complete the course evaluations at their convenience from any computer with Internet access, including in the open lab in the library and in the SUB. When students log in they should see the evaluations for the courses in which they are enrolled. Evaluations are anonymous. Filling out the evaluation should only take a few minutes. Your honest feedback is greatly appreciated!

Disabilities: Any student with a documented disability may be eligible for related accommodations. To determine eligibility and secure services, students should contact the coordinator of Disability Services at their first opportunity after registration for a class. Student Disability Services is located on the second floor of the Taylor Building on the Twin Falls Campus. Candida Mumford 208-732-6260 (voice) or 208-734-9299 (TDD) or e-mail cmumford@csi.edu Refer to page 19 in the catalog.