MATH 123  MATH IN MODERN SOCIETY
(3 credits)

Spring 2009                         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                                                                 1 - 2 p.m. M,W
E-mail:  berrioch@csi.edu                        Math Lab:             1 - 2 p.m.  F

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 text book.

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 in class.
Spring 2009  MATH 123  (tentative schedule)

Jan. 20  Sect. 1.1  (Intro) Inductive & Deductive Reasoning  24  Sect. 7.2  Linear Functions & Graphs

22  Sect. 1.2  Estimation & Graphs  26  Sect. 7.3  Sys of Eq. With Two Variables

27  Sect. 1.3  Problem Solving  26  Sect. 7.6  Exponential Functions

29  Sect. 2.1  Basic Set Concepts  31  Sect. 7.6  Quad. Functions

  Sect. 2.2  Venn Diagram & Subsets  Apr.  2  Sect. 8.1  Percent

Feb.  3  Sect. 2.3  Venn Diagrams & Set Operations  7  Sect. 8.3  Compound Interest

  Sect. 2.4  Operations & Diagrams with Three Sets  9  Sect. 8.4  Ann. Stks & Bonds

  Sect. 2.5  Surveys and Cardinal Numbers  Sect. 8.5  Installment Buying

10  Sect. 4.1  Hindu-Arabic & Positional Systems  Exam 1  14  Sect. 8.6  Home Ownership

12  Review  Sect. 4.2  Number Bases in Positional Systems  16  Sect. 9.1  Metric Length  Exam 3

17  Sect. 5.1  Prime & Composite Numbers  21  Review  Sect. 9.2  Metric Area/Volume

19  Sect. 5.2  Integers  23  Sect. 9.3  Metric Weight & Temp.

  Sect. 11.1  Fund. Counting Principle  28  Sect. 11.2  Permutations

24  Sect. 5.3  Rational Numbers  30  Sect. 11.3  Combinations

26  Sect. 5.4  Irrational Numbers  Sect. 12.1  Samples, Freq. Distr.

  Sect. 5.5  Real Numbers & Properties  28  Sect. 11.2  Permutations

Mar.  5  Sect. 5.6  Exponents & Scientific Notation  30  Sect. 11.3  Combinations

  Sect. 5.7  Arithmetic & Geometric Sequences  Sect. 12.1  Samples, Freq. Distr.

  Sect. 6.4  Ratios, Proportions & Variations  28  Sect. 11.2  Permutations

10  Sect. 6.6  Solving Quadratic Equations  Exam 2  30  Sect. 11.3  Combinations

12  Review  Sect. 7.1  Graphing & Functions  11  Final

17  Spring  12  *

19  Break  13  *

14  Exams
Drop procedure:

It is the student’s responsibility to drop the course.

During the first two weeks of the term, a student may drop a course or completely withdraw without its being recorded on the student’s official transcript. After the first two weeks a “W” will be recorded in any course the student drops.

A student desiring to drop a course during the first two weeks of the term may do so on-line. In order to drop or completely withdraw after the first two weeks, the student must complete and submit a drop or complete withdrawal form to the Admissions and Records Office.

Note: No course may be dropped or withdrawn from after 75% of the course or twelve weeks of the term has elapsed, whichever is earlier.

CSI E-mail:

Since e-mail is the primary source of written communication with students, all registered CSI students get a college e-mail account. Student e-mail addresses have the following format: username@students.csi.edu. Students can check their CSI e-mail online at http://students.csi.edu. Instructors and various offices send messages to these accounts. Students must check their CSI e-mail accounts regularly to avoid missing important messages and deadlines. At the beginning of each semester free training sessions are offered to students who need help in using their accounts.

On-line course evaluation statement:

To help instructors continually improve courses, students are strongly encouraged to go online to http://evaluation.csi.edu and complete anonymous evaluations which open two weeks before the end of the course and close the last day of class. When students enter the site, they find evaluations for their enrolled courses. Thank you for this valuable input!

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. 208-732-6250 (voice) or 208-734-9929 (TTY) or e-mail Candida Mumford, cmumford@csi.edu. Refer to page 35 in the catalog.