**MATH 123  MATH IN MODERN SOCIETY**
*(3.0 credits)*

**Spring 2010**  
**Office:** Shields 206-D  
**Associate Professor**  
**Office Hours:** 9 – 10 am M, W, F  
**E-mail:** berrioch@csi.edu  
**Office Phone:** 732-6822  
**Class Meetings:** 2 – 3 pm MWF Shields 210  
**Math Lab:** 1 – 2 pm Th

**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)


**Course Objectives:** Students will demonstrate a working knowledge of 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.

<table>
<thead>
<tr>
<th>Points Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>360 - 400</td>
<td>A</td>
</tr>
<tr>
<td>320 - 359</td>
<td>B</td>
</tr>
<tr>
<td>280 - 319</td>
<td>C</td>
</tr>
<tr>
<td>240 - 279</td>
<td>D</td>
</tr>
<tr>
<td>0 - 239</td>
<td>F</td>
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**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 made in regularly scheduled class meetings. Cheating will result in all involved students getting 0’s for that activity.

**Behavioral Policies:** Students can refer to catalog pages 34 – 36. **Turn off cell phones in class.**

**Miscellaneous:** Math help is available in Shields 207 and the library.  
Need a scientific calculator.
# MATH 123

## Tentative Schedule

### Jan.
- 18 **MLK Day (Holiday)**
- 20 **Intro** Sect. 1.1 Inductive & Deductive Reasoning
- 22 Sect. 1.2 Estimation & Graphs
- 25 Sect. 1.3 Problem Solving
- 27 Sect. 2.1 Basic Set Concepts
- 29 Sect. 2.2 Venn Diagram & Subsets

### Feb.
- 1 Sect. 2.3 Venn Diagram & Set Operations
- 3 Sect. 2.4 Operations & Diagrams with Three Sets
- 5 Sect. 2.5 Surveys and Cardinal Numbers
- 8 **Exam 1**
- 10 Review Sect. 4.1 Hindu-Arabic & positional systems
- 12 Sect. 4.2 Number Bases in Positional Systems
- 15 **President Day (Holiday)**
- 17 Sect. 5.1 Prime & Composite Numbers
- 19 Sect. 5.2 Integers
- 22 Sect. 5.3 Rational Numbers
- 24 Sect. 5.4 Irrational Numbers
- 26 Sect. 5.5 Real Numbers & Properties

### Mar.
- 1 Sect. 5.6 Exponents & Scientific Notation
- 3 Sect. 5.7 Arithmetic & Geometric Sequences
- 5 **Exam 2**
- 8 Review Sect. 6.4 Ratios, Proportions & Variations
- 10 Sect. 6.6 Solving Quadratic Equations
- 12 Sect. 7.1 Graphing & Functions
- 15 Spring
- 17 ****
- 19 Break

### Apr.
- 2 Sect. 7.2 Linear Functions & Graphs
- 4 Sect. 7.3 Sys of Eq. With 2 Variables
- 6 Sect. 7.6 Exponential Functions

### May
- 3 Sect. 12.2 Measure Central Tend.
- 5 Sect. 12.3 Measure Dispersion
- 7 Sect. 12.4 Normal Distribution

### Final
- 10 Final
- 11 *
- 12 *
- 13 **Exams**

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### Special Days
- 19 President's Day (Holiday)
- 29 Sect. 7.6 Quad. Functions
- 31 Sect. 8.1 Percent 8.2 Simple Inter.
- 2 Sect. 8.3 Compound Interest
- 5 Sect. 8.4 Annuity, Stocks, Bonds
- 7 Sect. 8.5 Instalment Buying
- 9 Sect. 8.6 Home Ownership
- 19 Metric Length
- 23 Sect. 11.1 Counting Princ.
- 26 Sect. 11.2 Permutations
- 28 Sect. 11.3 Combinations
- 30 Sect. 12.1 Samples, Freq. Dist.
- 8 Review Sect. 6.4 Ratios, Proportions & Variations
- 10 Final

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### Notes
- Tentative schedule subject to change.
- Exams are scheduled for specified dates.

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**Spring 2010**

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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 email is the primary source of written communication with students, all registered CSI students get a college email account. Student e-mail addresses have the following format: <address>@eaglemail.csi.edu where <address> is a name selected by the student as a part of activating his/her account. Students activate their accounts and check their CSI e-mail online at http://eaglemail.csi.edu. Instructors and various offices send messages to these student 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. 208-732-6260 (voice) or 208-734-9929 (TTY). Refer to page 38 in the catalog.