MATH FOR ELEMENTARY TEACHERS 1, MATH 157-C03W
3.0 CREDIT HOURS

Semester: Fall 2008  
Instructor: Paul E. Morgan  
E-Mail Address: pmorgan@csi.edu

Office Location: Shields 206-B  
Office Hours: 11:00 am – 12:00 pm  
Office Phone: 208-732-6821

COURSE DESCRIPTION: This course includes problem solving, set theory, numeration systems, integers, number theory, rational numbers, exponents and real numbers.

PRE-REQUISITES: Math 143 or 147 with a “C” or higher.

REQUIRED TEXTBOOKS AND EQUIPMENT: The required materials listed below can be purchased as a package through the CSI Bookstore. To order these materials from the CSI Bookstore, call (208) 732-6550 or (208) 732-6551 or 1 (800) 680-0274, ext 6550 toll free in ID and NV. Fax: (208) 736-3015. The ISBN number for this package is 0-536-510687. The contents of the package are:
- MyMathLab Student Access Card

You can download different types of graph paper free from the site [http://www.mathematicshelpcentral.com/](http://www.mathematicshelpcentral.com/).

HARDWARE/SOFTWARE REQUIREMENTS:
 Operating system  
- Windows® 2000 or XP  
- Macintosh® OS 9.2, 10.1, 10.2, or 10.3

Internet connection - Minimum of 28.8 kbps (kilobits per second)
 Browser  
- Microsoft® Internet Explorer, Version 6.0  
- Netscape® Navigator, Version 7.0  
- Firefox 1.0.7  
- Safari 1.2 (with Macintosh operating systems only)

WHAT TO DO FIRST:
1. Follow the instructions attached as a Word document to the Introductory email sent on August 22nd.
2. Send via email your US Postal address and a recommendation for a proctor/proctor location for taking exams. [see “Announcements” in CourseCompass]
3. Any problems, email (pmorgan@csi.edu) or telephone (732-6821) the instructor.

Paul E Morgan  
Shields 206-B
COURSE OBJECTIVES:
1. The student will master course content as presented in lecture and assigned homework.
2. The student will apply mathematics to real world situations.
3. The student will develop skills in working with peers to solve mathematical problems.
4. The student will be able to communicate mathematically.

OUTCOMES ASSESSMENT:
1. The students will have achieved the course objectives when they successfully:
   (a) demonstrate their understanding of the course content by completing homework assignments.
   (b) complete individual projects that involve real-world situations.
   (c) develop solutions to application problems.
   (d) communicate solutions to problems.

2. When students have successfully completed this course they will be able analyze real-world problems and mathematically structure strategies to determine the solution to the problems.
3. Success will be measured by homework presentations, regular exams and a comprehensive final exam.
4. 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.

POLICIES AND PROCEDURES:
THIS IS NOT AN INDEPENDENT STUDY OR A SELF-PACED CLASS. The course is paced through the semester with assignments and exams which must be done on time in accordance with the syllabus and the instructions for each in CourseCompass. Weekly assignments are not available on CourseCompass after the due date shown on the syllabus. We will cover approximately one chapter per week during the summer term.

Each section that we cover will include the following requirements:
1. Read and study the section in the textbook.
2. Watch the mini-lectures available on the Digital Video Tutor CD’s.
3. Work as many of the exercises as you need to master the topic.
4. Do the homework as indicated in the “Assignments” link. This may include “Homework” online as well as written projects from either the exercises in the textbook or from the “Activities” booklet purchased with the textbook. Homework that is not online must be mailed to the instructor as per directions given in the “Assignments” link. All written assignments are graded by the professor and used to compute your average.
Instructor mailing address:
Paul E. Morgan
College of Southern Idaho
Shields Building, 206-B
P.O. Box 1238
Twin Falls, ID 83303-1238

In lieu of a fee, students will be required to mail assignments each week to the instructor. The student will pay the postage.

HOMEWORK: The online work explained above is the homework for this course. The average score of these homework assignments will be worth 1/4 of your grade for the course.

QUIZZES: There will be online quizzes to explore your understanding in more depth. The average score of these quizzes will be worth 1/8 of your grade for the course.

EXAMS: Periodically throughout the semester (usually after each two chapters) you will be required to take a proctored, paper-and-pencil exam. The Final Exam is also a proctored, paper-and-pencil exam. If you live in the immediate area, you will take the exams in the Campus Testing Center in the Meyerhoeffer Building, Room 230. You must have a photo ID and arrive at least one hour before closing times. If you live some distance from Twin Falls, we will have to make other arrangements to provide a proctor in your local area. Those living near Burley, Hailey, or Gooding will test at the CSI Outreach Centers at those locations. The final decision on location is the instructor’s. The times the CSI and Outreach Testing Centers are open follow.

The Twin Falls Center hours:
Monday thru Thursday: 8:00 am – 9:30 pm
Friday: 8:00 am – 5:00 pm

The Blaine County Outreach Center hours:
Monday, Thursday and Friday: 8:00 am – 4:30 pm
Tuesday and Wednesday: 8:00 am – 7:00 pm

The Burley Testing Center hours:
Monday and Tuesday: 11:00 am – 8:30 pm
Wednesday and Thursday: 8:00 am – 8:30 pm
Friday: 8:00 am – 5:00 pm.

The North Side Center hours:
Monday thru Friday: 8:00 am – 5:00 pm

STUDENT EMAIL: Email is the primary source of written communication with all CSI students. Students automatically get a CSI e-mail account when they register for courses. Messages from instructors and various offices such as Admission and Records, Advising, Financial Aid, Scholarships, etc. will be sent to the students’ CSI accounts (NOT their personal e-mail accounts). It is the student’s responsibility to check their CSI e-mail accounts regularly. Failing to do so will result in missing important messages and deadlines. Students can check their CSI e-mail online at http://students.csi.edu. Student e-mail addresses have the following format: username@students.csi.edu. At the beginning of each semester free training sessions will be offered to students who need help using their CSI e-mail accounts.
PROGRESS REPORTS:
(a) If a student’s progress is unsatisfactory as indicated by lack of attendance, poor test scores, incomplete or poor homework, or classroom behavior, the instructor may institute the PASS (Positive Action for Student Success) Program and alert the Advising Center of the difficulties. A letter may be sent to the student with the intent to provide the student with the resources necessary to be successful in the class. This is an “early alert” system.
(b) If a student continues to have difficulties through the course, the instructor may institute the SMART (Students Making A Right Turn) program aims at contacting students who may need a “wake up” alert in making academic decisions before it is too late in the semester. These “wake up” red flags may arise from a broad spectrum of issues: attendance, coursework, classroom behavior, and other factors impeding student success at CSI. The intent of this “late alert” program is to develop positive student/teacher communication in order to map out a course of action for student achievement and success, before the last day to drop.

COMPUTER LITERACY: Please refer to the 2008-2009 College of Southern Idaho Catalog under Computer Literacy in the section, “DEGREE AND CERTIFICATE REQUIREMENTS”, on page 43. This can also be found online at www.csi.edu.

LEARNING ASSISTANCE RESOURCES: CourseCompass has online learning assistance.

ON-LINE COURSE EVALUATION: 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 will be available online during the last two weeks of the course at http://evaluation.csi.edu. 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. Your honest feedback is greatly appreciated.

STUDENTS WITH DISABILITIES: Any student with a documented disability may be eligible for related accommodations. Students should contact Candida Mumford at the Student Disability Services Office at (208) 732-6260 or (208) 734-9929 (TDD) or cmumford@csi.edu. Please refer to the 2008-2009 College Of Southern Idaho Catalog under “STUDENT DISABILITY SERVICES”, on page 35. This can also be found online at www.csi.edu.
GRADING PRACTICES:

3 regular exams worth 100 points each
Online quizzes worth 100 points, total
Homework assignments worth 200 points, total
1 comprehensive final exam worth 200 points

Grades are computed by adding up total points for all exams and homework and dividing the sum by the total possible number of points. This is converted to percent. Your letter grade is determined according to the following table:

<table>
<thead>
<tr>
<th>Percent</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 -100</td>
<td>A</td>
</tr>
<tr>
<td>80 - 89</td>
<td>B</td>
</tr>
<tr>
<td>70 - 79</td>
<td>C</td>
</tr>
<tr>
<td>60 - 69</td>
<td>D</td>
</tr>
<tr>
<td>0 - 59</td>
<td>F</td>
</tr>
</tbody>
</table>
# COURSE OUTLINE WITH ASSIGNMENTS AND EXAMS

THIS SYLLABUS IS TENTATIVE AND IS SUBJECT TO CHANGE

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DUE DATE</th>
<th>CONTENT</th>
</tr>
</thead>
</table>
| One  | Sunday, August 31 11:59 pm | - Provide U.S. Mail address to instructor  
- Make arrangements, in coordination with the instructor for exam proctor locations |
| Two  | Sunday, September 7 11:59 pm | Chapter 1  
Section 1.1, “An Introduction to Problem Solving”, pp. 3 – 8  
Section 1.2, “Polya’s Problem-Solving Principles”, p. 9 – 20 |
| Three| Sunday, September 14 11:59 pm | Chapter 1  
Section 1.3, “More Problem-Solving Strategies”, p. 20 – 41  
Section 1.4, “Additional Problem-Solving Strategies”, p. 41 – 51  
Section 1.5, “Reasoning Mathematically”, p. 51 – 64 |
| Four | Sunday, September 21 11:59 pm | Chapter 2  
Section 2.1, “Sets and Operations on Sets”, p. 75 – 87  
Section 2.2, “Sets, Counting, and the Whole Numbers”, p. 87 – 101 |
| Five | Sunday, September 28 11:59 pm | Chapter 2  
Section 2.3, “Addition and Subtraction of Whole Numbers”, p. 101 – 114  
Section 2.4, “Multiplication and Division of Whole Numbers”, p. 114 – 134 |
| Six  | Wednesday thru Friday Oct. 1 – Oct. 3 | Exam 1, Chapters 1 & 2  
At pre-determined testing location |
| Six  | Sunday, October 5 11:59 pm | Chapter 3  
Section 3.1, “Numeration Systems Past and Present”, p. 143 – 157  
# COURSE OUTLINE WITH ASSIGNMENTS AND EXAMS

**THIS SYLLABUS IS TENTATIVE AND IS SUBJECT TO CHANGE**

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DUE DATE</th>
<th>CONTENT</th>
</tr>
</thead>
</table>
| Seven | Sunday, October 12 11:59 pm | **Chapter 3**  
Section 3.3, “Algorithms for Adding and Subtracting Whole Numbers”, p. 165 – 181  
Section 3.4, “Algorithms for Multiplication and Division of Whole Numbers”, p. 181 – 196  
Section 3.5, “Mental Arithmetic and Estimation”, p. 196 – 208 |
| Eight | Sunday, October 19 11:59 pm | **Chapter 4**  
Section 4.1, “Divisibility of Natural Numbers”, p. 230 – 245  
Section 4.2, “Tests for Divisibility”, p. 246 – 255 |
| Nine | Wednesday thru Friday, Oct. 22 – Oct. 24 | **Exam 2, Chapters 3 & 4**  
At pre-determined testing location |
| Nine | Sunday, October 26 11:59 pm | **Chapter 5**  
Section 5.1, “Representations of Integers”, p. 283 – 293  
Section 5.2, “Addition and Subtraction of Integers”, p. 294 – 314 |
| Ten | Sunday, November 2 11:59 pm | **Chapter 5 & 6**  
Section 5.3, “Multiplication and Division of Integers”, p. 314 – 324  
| Eleven | Sunday, November 9 11:59 pm | **Chapter 6**  
| Twelve | Wednesday thru Friday Nov. 12 – Nov. 14 | **Exam 3, Chapters 5 & 6**  
At pre-determined testing location |
| Twelve | Sunday, November 16 11:59 pm | **Chapter 7**  
Section 7.1, “Decimals”, p. 404 – 424  
Section 7.2, “Computations with Decimals”, p. 424 – 437 |
COURSE OUTLINE WITH ASSIGNMENTS AND EXAMS  
THIS SYLLABUS IS TENTATIVE AND IS SUBJECT TO CHANGE

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DUE DATE</th>
<th>CONTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thirteen</td>
<td>Sunday, November 23</td>
<td>Chapter 7</td>
</tr>
<tr>
<td></td>
<td>11:59 pm</td>
<td>Section 7.3, “Ratio and Proportion”, p. 437 – 448</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Section 7.4, “Percent”, p. 448 – 460</td>
</tr>
<tr>
<td>Fourteen</td>
<td>Thanksgiving Week – No material due – Get ready for the final next week</td>
<td></td>
</tr>
<tr>
<td>Fifteen</td>
<td>Monday thru Wednesday Dec. 1 – Dec. 3</td>
<td>Final Exam, including Chapter 7 material At pre-determined testing location</td>
</tr>
</tbody>
</table>

Please ensure that your proctor mails the Final Exam to me promptly so that your grade can be submitted on time.