Intermediate Algebra- Math 108
4 credits--- Summer 2008

Instructor: Lynn Payne
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Course Description:
• This course is designed to prepare the student for college algebra. It covers first-degree equations and inequalities, absolute value equations and inequalities, linear functions, systems of linear equations, polynomials, negative and rational exponents, radicals, rational expressions, quadratic equations, graphing functions, and logarithms.

Pre-requisites:
• Math 010 with C grade of higher, or placement from COMPASS scores: Pre-Algebra score of 53 or higher, Algebra score of 41 – 61.

Required Textbook and Supplies:
• A calculator with Log and Exponential functions, Graphing Calculator are not permitted in Math 108
• Graph paper

Expected Outcome:
• Understand the Intermediate Algebra terminology
• Apply this terminology in simple and complex patterns
• Comprehend Intermediate Algebra methods used to analyze problems
• Apply these methods to selected “real world” applications

Course Objectives:
• Students will engage in substantial mathematical problem solving.
• Students will learn mathematics through modeling real-world situations.
• Students will expand their mathematical reasoning skills as they develop convincing mathematical arguments.
• Students will have opportunities to see that mathematics is a growing discipline that is interrelated with human culture and understand its connection to other disciplines.
• Students will have opportunities to read, write, listen to, and speak mathematics.
• Students will use appropriate technology to enhance their mathematical thinking and understanding. The students will use the technology to solve mathematical problems and judge the accuracy of their results.
• Students will have opportunities to be successful in doing meaningful mathematics that foster self-confidence and persistence.

Outcomes Assessment:
• Students will be asked to complete a student evaluation at the end of the semester. Regular informal feedback will be solicited in an effort to improve the class as we go along.
• Chapter tests and comprehensive final exam will be used to assess how well students achieve the course objectives.
• A grade of C or better will show what degree of comprehension the student has achieved the outcome.
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:
- Attendance is essential for a student to be successful in this course. CSI policy allows me to drop any student after missing three class times.
- You are assigned to do every odd problem for your assignment. Please do them for your benefit. It will reflect directly with your grade on your test.
- Your grade will be an average of your test grades. You will be able to drop your lowest test grade. The final test is not eligible to be dropped.
- Your break down of grades will go as follows:
  - 90% - 100%  A
  - 80% - 89%  B
  - 70% - 79%  C
  - 60% - 69%  D
  - 0%   - 59%  F

Aids available to you for this course:
- There will be personal tutoring available. You will have to get a schedule form the front desk.
- A great help will be, if you could possibly find a person taking the same class, work with each other.
- There will be videos for the class at the front desk.
- There are additional lecture presentations on public television on designating nights.

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) 208 – 734 – 9929 (TTY), Or E-mail aflannery@csi.edu.

Online course evaluations:
- 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://evaluation.csi.edu](http://evaluation.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 at 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!

TENTATIVE SCHEDULE FOR SUMMER 2008 INTERMEDIATE ALGEBRA MATH 108

June 2  Chapter 1 (1.1 – 1.5)
Review real numbers, sets and the order of operations. Writing equations from verbal expressions
Test 1 will be taken in the testing center before June 9.
June 9       Chapter 2 (2.1 – 2.5)  
Equations in one variable, practical use problems with coins, stamps, motion, mixture and percentages.  
Problems using inequalities as absolute values.  Test on Chapter 2 will be taken in the testing center before June 16.

June 11  Chapter 3 (3.1 – 3.3)  
Coordinate system functions, finding slopes.

June 16  Chapter 3 (3.4 – 3.6)  
Writing equations of both parallel and perpendicular lines.  Test 3 will be taken in the testing center before June 23

June 18  Chapter 4 (4.1 – 4.3)  
Solving systems of linear equations by graphing, addition and using determinants.  Test 4 will be taken in the testing center before class on June 25.

June 23  Chapter 5 (5.1 – 5.3)  
Exponential expressions, multiplication, division and factoring of polynomials.

June 25  Chapter 5 (5.4 – 5.6)  
Special factoring and solving for variables by factoring.  
Test 5 will be taken in the testing center before class on July 2.

June 30  Chapter 6 (6.1 – 6.3)  
Operations on radical expressions, complex fractions, rational equation.

July 2  Chapter 6 (6.4 – 6.7)  
Rational expressions working with work and motion problems.  Learning various proportion, variations and literal equations.  Test 6 will be taken in the testing center before class on July 9.

July 7  Chapter 7 (7.1 – 7.3)  
Working with Rational exponents and expression.

July 9  Chapter 7 (7.4 – 7.6)  
Working with Complex numbers and radical functions.  Test 7 will be taken in the testing center before class on July 16.

July 14  Chapter 8 (8.1 – 8.4, 8.6)  
Solving quadratic equations by using factoring, completing the square and quadratic formula.  You will be finding the vertex and axis of symmetry of parabolas.

July 16  Chapter 9 (9.1 – 9.5)  
Performing various operations on functions, finding the composite of functions.  Determining the inverse of functions.  Chapter 8 through chapter 9 will be included in the final.  Simplifying and solving Exponential and logarithmic equations.

July 21  Course Review

July 23  Final