**MATH 108 – *Intermediate Algebra* (online)
4 Credits – Spring 2009**

Instructor: Nolan Rice  Math Lab: Th 1:00 – 1:50
Office: SHL 206-F  Office Hours: M/F 4:00 – 4:50
Phone/Voice Mail: 732.6819  T/W 2:00 – 2:50
E-mail: nrice@csi.edu  …or by appointment
Web Page: www.csi.edu/ip/matheng/faculty/nrice/nrice.htm

**Course Description**
This course is designed to prepare the student for *College Algebra*. It covers first-degree equations and inequalities, linear functions, systems of linear equations, polynomials, factorization, rational expressions, negative and rational exponents, radicals, quadratic equations, graphing functions, logarithms, and application problems. **Prerequisite:** MATH 010/025 with "C" grade or better, or CSI placement test score.

**Required Textbook and Supplies**

THE NEW TEXT HAS A GREEN (TURQUOISE) COVER, THE OLD TEXT HAS A WHITE, BLUE AND ORANGE COVER. THE OLD TEXT WILL NOT WORK. CALL ME IN MY OFFICE IF YOU’D LIKE TO CHECK AND SEE IF YOU HAVE THE RIGHT TEXT.

The text can be purchased at the CSI Bookstore or at the online bookstore site www.bookstore.csi.edu (read “Note From The Manager”). The shrink-wrapped materials will include a one-semester, non-transferable course validation code for the software license. The text and software license are consumable and cannot be sold back to the bookstore or to another student. Contact the CSI Bookstore for any questions regarding the purchase of your text at 208.732.6550.

**Course Objectives**
- The student will demonstrate a working knowledge of real numbers and exponents, equations and inequalities, graphing lines, solving linear systems, and problem solving.
- The student will demonstrate a working knowledge of factoring polynomials, absolute value, quadratic equations, complex numbers, and rational expressions.
- The student will demonstrate a working knowledge of problem solving with rational expressions, roots and radicals, rational exponents, and nonlinear equations.
- The student will demonstrate a working knowledge of quadratic inequalities, functions, algebra of functions.
- The student will demonstrate a working knowledge of exponential functions, logs and their properties, application of logs.

**Policies and Procedures**
- Students will purchase the required course text with validation code for the non-transferable license.
- Students must have access to a workstation with recommended PC configuration, or make themselves available to use the designated PC’s on the CSI campus.
- Students will be required to take exams in the Campus Testing Center, or a site designated by the instructor. CSI ID is required to take an exam, no exceptions. If a student is caught cheating on an exam a score of 0% will be given on that exam.
- Off campus students accessing Academic Systems from a non-campus network (for example their place of employment) may be unable to connect to the course if that network utilizes a firewall.
- Students must adhere to CSI computer lab and behavioral policies listed on pages 31 – 33 of the CSI catalog.
- It is the student’s responsibility to check their CSI e-mail account regularly. For information on how to use CSI e-mail, please contact me in my office.

**Course Delivery and Philosophy**
This course uses multimedia-intensive instructional delivery. The philosophy behind offering the course online is to allow the student a time and place for independent delivery. Also, the student is allowed to move at an accelerated pace through the course. Each section begins with a pre-test (*Overview*). A perfect score on a pre-test might indicate the student has already mastered the competencies of a particular section and the student is permitted to move onto the next objective. The pretest may also indicate that the student requires some instruction and a prescription of study will be made for the student based on the pre-test results. Each content area contains a course lecture (*Explain*) and practice sections (*Apply* and *Homework*). The student also takes an online quiz (*Evaluate*) to determine mastery of the content area. Each online quiz (*Evaluate*) can be taken up to three times, and the software will record the highest of the three scores.
Outcomes Assessment
Quizzes, exams and a comprehensive final will be used to assess mastery of course content. These will also be used to assess student achievement. Students will be asked to fill out a course evaluation near the end of the semester. The student must receive a grade of "C" or better in the course. 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.

Homework
Practice homework problems are done on the computer under Explain, Apply and Homework. Students receive immediate results from the software on practice homework problems attempted on the computer. The computer homework is for practice and is not included in the course grade. Practice homework problems are also available in the text. The solutions to the odd numbered problems are in the back of the text. The text homework is for practice and is not included in the course grade. You do not need to send me homework papers containing problems from the text. You may practice as much, or as little, as you like using these tools.

Quizzes
The Academic Systems program contains quizzes under Evaluate. The system allows you to take each quiz up to 3 times. The system records the highest of the three scores. At the end of the semester, the 4 lowest of all the recorded quiz scores will be dropped when the course grade is figured. Students should expect to spend 8 – 10 hours per week working on course material. Students must complete all required online quizzes before taking the exam. Students can work ahead of the weekly schedule.

Exams & Final
Three exams and a comprehensive final will be given. Exams and the final will be taken in the Campus Testing Center, or a site designated by the instructor. Make-up exams will not be granted unless arrangements are made prior to the exam date. Make-up finals will not be granted under any circumstances.

Grade Calculation

<table>
<thead>
<tr>
<th></th>
<th>Exam Scores:</th>
<th>300 points</th>
<th>A: 495 – 550 points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz Scores:</td>
<td>100 points</td>
<td></td>
<td>B: 440 – 494 points</td>
</tr>
<tr>
<td>Final Exam Score:</td>
<td>150 points</td>
<td></td>
<td>C: 385 – 439 points</td>
</tr>
<tr>
<td>Total Possible:</td>
<td>550 points</td>
<td></td>
<td>D: 330 – 384 points</td>
</tr>
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<td>F: 0 – 329 points</td>
</tr>
</tbody>
</table>

A student must score 60% or higher on the final to receive a “C” or better in the course.

Need Help?
- E-mail your instructor at nrice@csi.edu.
- Contact Kat Powell at kpowell@csi.edu, Learning Assistance Coordinator, in GRM 219, 732-6685, or at the following website http://www.csi.edu/ip/adc/lap for tutoring information which is available to both on-campus and online students.
- Drop-in assistance available in the Math Lab located in SHL 207.
- VHS and DVD’s are available for checkout from the reserve desk at the CSI library and Outreach Centers.
- Information regarding CSI Student Disability Services can be found on pages 35 – 36 of the CSI catalog. Any student with a documented disability may be eligible for related accommodations. To determine eligibility and secure services, students should contact Candida Mumford, Coordinator, Student Disabilities, 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 208.734.9299 (TTY), or e-mail cmumford@csi.edu
- Student telephone Computer Technical Support available at 952-607-3899.
- E-mail for Technical Support at algebra@plato.com.
CHECKLIST AND DUE DATES

WEEK 1: January 19 – 23


____ Read Syllabus

____ Go to the following website: https://asalgebra.platoweb.com. (Use Internet Explorer.)

Put this website into your “favorites” as you will be using it all semester.

____ You are asked for the following information:

Account Login: ____________________
PLATO Name: ____________________
Password: ____________________

Your Account Login is csi.

Your PLATO Name is the first three letters of your first name (if less than three than as many as exist), followed by your entire last name, followed by your birth month and day in format MMDD.

Your Password is you CSI student ID number.

Two Examples

1) Steve Johnson, born December 16th, ID number 123456

   Account Login: csi
   PLATO Name: stejohnson1216
   Password: 123456

2) Ty Reynolds, born February 4th, ID number 7892

   Account Login: csi
   PLATO Name: tyreynolds0204
   Password: 7892

Once you have entered your information, click Login.

____ Click Intermediate Algebra (Rice) 3

____ At any point you may be asked to enter your validation code. The validation code can be found inside the materials you purchased at the CSI Bookstore. Enter it right away. The computer system will drop you after a certain number of days if you do not enter it. You only need to enter the validation code once.

____ Notice Cube A is orange. This is where you begin.

____ Click Getting Started

This section is informative and prepares you for using the math software.

WEEK 2: January 26 – 30

____ Click Cube B. It should turn orange.

____ Box 1 (below Cube B) should already be orange.

____ Complete the Overview for Lesson EII.A. Real Numbers and Exponents

____ Complete the Explain for Lesson EII.A.

____ Complete the Apply for Lesson EII.A.

____ Complete the Homework for Lesson EII.A

____ Complete the book homework for Lesson EII.A and self-check work.

____ Complete the online quiz in Evaluate for Lesson EII.A. (Remember, you can take the Evaluate quizzes three times, and the computer will record your highest score.)

WHEN EXITING A LESSON, USE THE “X” BUTTON IN THE LOWER LEFT CORNER. DO NOT USE THE “X” BUTTON IN THE UPPER RIGHT CORNER. YOUR SCORES WILL NOT BE RECORDED IF YOU USE THE UPPER RIGHT “X.” WHEN YOU GET BACK TO THE MAIN SCREEN, CLICK LOGOUT.
VIEW THE MICROSOFT WORD DOCUMENT TITLED “Set Theory” YOU RECEIVED VIA E-MAIL FROM THE INSTRUCTOR.

WEEK 3: February 2 – 6
_____
Click Cube B.  It should turn orange.
Click Box 2 (below Cube B).  It should turn orange.
Complete the Overview for Lesson EII.C.  Equations and Inequalities
Complete the Explain for Lesson EII.C.
Complete the Apply for Lesson EII.C.
Complete the Homework for Lesson EII.C.
Complete the book homework for Lesson EII.C and self-check work.
Complete the online quiz in Evaluate for Lesson EII.C. (Remember, you can take the Evaluate quizzes three times, and the computer will record your highest score.)

WHEN EXITING A LESSON, USE THE “X” BUTTON IN THE LOWER LEFT CORNER. DO NOT USE THE “X” BUTTON IN THE UPPER RIGHT CORNER. YOUR SCORES WILL NOT BE RECORDED IF YOU USE THE UPPER RIGHT “X.” WHEN YOU GET BACK TO THE MAIN SCREEN, CLICK LOGOUT.

_____
Click Cube B.
Click Box 3.
Complete the Overview for Lesson EII.E.  Graphing Lines
Complete the Explain for Lesson EII.E.
Complete the Apply for Lesson EII.E.
Complete the Homework for Lesson EII.E.
Complete the book homework for Lesson EII.E and self-check work.
Complete the online quiz in Evaluate for Lesson EII.E.

WEEK 4: February 9 – 13
_____
Click Cube C.
Click Box 1.
Listen to Lesson 5.0.
_____
Click Cube C.
Click Box 2.
Complete the Overview for Lesson 5.1.  Solving Linear Systems
Complete the Explain for Lesson 5.1.
Complete the Apply for Lesson 5.1.
Complete the Explore for Lesson 5.1.
Complete the Homework for Lesson 5.1
Complete the book homework for Lesson 5.1 and self-check work.
Complete the online quiz in Evaluate for Lesson 5.1.

_____
VIEW POWERPOINT PRESENTATION TITLED “System of 3 Equations” YOU RECEIVED VIA E-MAIL FROM THE INSTRUCTOR.

_____
COMPLETE PRACTICE PROBLEMS IN MICROSOFT WORD DOCUMENT TITLED “AdditionMethodandCramer’sRule” YOU RECEIVED VIA E-MAIL FROM THE INSTRUCTOR.

WEEK 5: February 16 – 20
_____
Click Cube C.
Click Box 3.
Complete the Overview for Lesson 5.2.  Problem Solving
Complete the Explain for Lesson 5.2.
Complete the Apply for Lesson 5.2.
Complete the Homework for Lesson 5.2.
Complete the book homework for Lesson 5.2 and self-check work.
Complete the online quiz in Evaluate for Lesson 5.2.
WEEK 6: February 23 – 27

_____ Click Cube C.
_____ Click Box 4.
_____ Complete the Overview for Lesson EII.F. Absolute Value
_____ Complete the Explain for Lesson EII.F.
_____ Complete the Apply for Lesson EII.F.
_____ Complete the Homework for Lesson EII.F.
_____ Complete the book homework for Lesson EII.F and self-check work.
_____ Complete the online quiz in Evaluate for Lesson EII.F.

_____ EXAM #1 – Friday, February 27th (last day to take exam)
  – CSI ID required.
  – Exam covers everything above this point in the schedule.

_____ Click Cube D.
_____ Click Box 1.
_____ Listen to Lesson 10.0

_____ Click Cube D.
_____ Click Box 2.
_____ Complete the Overview for Lesson EII.B. Polynomials
_____ Complete the Explain for Lesson EII.B.
_____ Complete the Apply for Lesson EII.B.
_____ Complete the Homework for Lesson EII.B.
_____ Complete the book homework for Lesson EII.B and self-check work.
_____ Complete the online quiz in Evaluate for Lesson EII.B.

WEEK 7: March 2 – 6

_____ Click Cube D.
_____ Click Box 3.
_____ Complete the Overview for Lesson 10.1. Quadratic Equations I
_____ Complete the Explain for Lesson 10.1.
_____ Complete the Apply for Lesson 10.1.
_____ Complete the Homework for Lesson 10.1.
_____ Complete the book homework for Lesson 10.1 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 10.1.

_____ Click Cube D.
_____ Click Box 4.
_____ Complete the Overview for Lesson 10.2. Quadratic Equations II
_____ Complete the Explain for Lesson 10.2.
_____ Complete the Apply for Lesson 10.2.
_____ Complete the Homework for Lesson 10.2.
_____ Complete the book homework for Lesson 10.2 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 10.2.

WEEK 8: March 9 – 13

_____ Click Cube D.
_____ Click Box 5.
_____ Complete the Overview for Lesson 10.3. Complex Numbers
_____ Complete the Explain for Lesson 10.3.
_____ Complete the Apply for Lesson 10.3.
_____ Complete the Homework for Lesson 10.3.
_____ Complete the book homework for Lesson 10.3 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 10.3.
WEEK 9: March 16 – 20

_____ SPRING BREAK (Use this week to catch up.)

WEEK 10: March 23 – 27

_____ Click Cube E.
_____ Click Box 1.
_____ Listen to Lesson 8.0.

_____ Click Cube E.
_____ Click Box 2.
_____ Complete the Overview for Lesson EII.D. Rational Expressions
_____ Complete the Explain for Lesson EII.D.
_____ Complete the Apply for Lesson EII.D.
_____ Complete the Homework for Lesson EII.D.
_____ Complete the book homework for Lesson EII.D and self-check work.
_____ Complete the online quiz in Evaluate for Lesson EII.D.

WEEK 11: March 30 – April 3

_____ Click Cube E.
_____ Click Box 3.
_____ Complete the Overview for Lesson 8.4. Problem Solving
_____ Complete the Explain for Lesson 8.4.
_____ Complete the Apply for Lesson 8.4.
_____ Complete the Homework for Lesson 8.4.
_____ Complete the book homework for Lesson 8.4 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 8.4.

_____ EXAM #2 – Friday, April 3rd (last day to take exam)
   – CSI ID required.
   – Exam covers everything above this point in the schedule.

WEEK 12: April 6 – 10

_____ Click Cube F.
_____ Click Box 1.
_____ Listen to Lesson 9.0.

_____ Click Cube F.
_____ Click Box 2.
_____ Complete the Overview for Lesson 9.1. Roots and Radicals
_____ Complete the Explain for Lesson 9.1.
_____ Complete the Apply for Lesson 9.1.
_____ Complete the Homework for Lesson 9.1.
_____ Complete the book homework for Lesson 9.1 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 9.1.

_____ Click Cube F.
_____ Click Box 3.
_____ Complete the Overview for Lesson 9.2. Rational Exponents
_____ Complete the Explain for Lesson 9.2.
_____ Complete the Apply for Lesson 9.2.
_____ Complete the Homework for Lesson 9.2.
_____ Complete the book homework for Lesson 9.2 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 9.2.
WEEK 13: April 13 – 17

_____  Click Cube G.
_____  Click Box 1.
_____  Listen to Lesson 13.0.

_____  Click Cube G.
_____  Click Box 2.
_____  Complete the Overview for Lesson 13.1. Nonlinear Equations
_____  Complete the Explain for Lesson 13.1.
_____  Complete the Apply for Lesson 13.1.
_____  Complete the Explore for Lesson 13.1.
_____  Complete the Home work for Lesson 13.1.
_____  Complete the book homework for Lesson 13.1 and self-check work.
_____  Complete the online quiz in Evaluate for Lesson 13.1.

_____  Click Cube G.
_____  Click Box 3.
_____  Complete the Overview for Lesson 13.3. Inequalities
_____  Complete the Explain for Lesson 13.3.
_____  Complete the Apply for Lesson 13.3.
_____  Complete the Explore for Lesson 13.3.
_____  Complete the Homework for Lesson 13.3.
_____  Complete the book homework for Lesson 13.3 and self-check work.
_____  Complete the online quiz in Evaluate for Lesson 13.3.

WEEK 14: April 20 - 24

_____  Click Cube H.
_____  Click Box 1.
_____  Listen to Lesson 11.0.

_____  Click Cube H.
_____  Click Box 2.
_____  Complete the Overview for Lesson 11.1. Functions
_____  Complete the Explain for Lesson 11.1.
_____  Complete the Apply for Lesson 11.1.
_____  Complete the Explore for Lesson 11.1.
_____  Complete the Homework for Lesson 11.1.
_____  Complete the book homework for Lesson 11.1 and self-check work.
_____  Complete the online quiz in Evaluate for Lesson 11.1.

_____  Click Cube H.
_____  Click Box 3.
_____  Complete the Overview for Lesson 11.2. The Algebra of Functions
_____  Complete the Explain for Lesson 11.2.
_____  Complete the Apply for Lesson 11.2.
_____  Complete the Homework for Lesson 11.2.
_____  Complete the book homework for Lesson 11.2 and self-check work.
_____  Complete the online quiz in Evaluate for Lesson 11.2.

_____  EXAM #3 – Friday, April 24th (last day to take exam)
   – CSI ID required.
   – Exam covers everything above this point in the schedule.
WEEK 15: April 27 – May 1

_____ Click Cube I.
_____ Click Box 1.
_____ Listen to Lesson 12.0.

_____ Click Cube I.
_____ Click Box 2.
_____ Complete the Overview for Lesson 12.1. Exponential Functions
_____ Complete the Explain for Lesson 12.1.
_____ Complete the Apply for Lesson 12.1.
_____ Complete the Homework for Lesson 12.1.
_____ Complete the book homework for Lesson 12.1 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 12.1.

_____ Click Cube I.
_____ Click Box 3.
_____ Complete the Overview for Lesson 12.2. Logs and Their Properties
_____ Complete the Explain for Lesson 12.2.
_____ Complete the Apply for Lesson 12.2.
_____ Complete the Homework for Lesson 12.2
_____ Complete the book homework for Lesson 12.2 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 12.2.

WEEK 16: May 4 – 8

_____ Click Cube I.
_____ Click Box 4.
_____ Complete the Overview for Lesson 12.3. Applications of Logs
_____ Complete the Explain for Lesson 12.3.
_____ Complete the Apply for Lesson 12.3.
_____ Complete the Homework for Lesson 12.3.
_____ Complete the book homework for Lesson 12.3 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 12.3.

_____ Online 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://evaluation.csi.edu. Evaluations open up two weeks prior to the end 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!

_____ COMPLETE PRACTICE FINAL YOU RECEIVED VIA E-MAIL FROM THE INSTRUCTOR.

_____ Review for Final.

_____ COMPREHENSIVE FINAL – Tuesday, May 12th (last day to take final)
  – CSI ID required.
  – Final covers everything above this point in the schedule.