MATH 108 – Intermediate Algebra (online)  
4 Credits – Fall 2008

Instructor: Nolan Rice  
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Math Lab: T 2:00 – 2:50  
Office Hours: M/F 2:00 – 2:50  
W 4:30 – 5:20  
Th 12:00 – 12:50

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.

The text can be purchased at the CSI Bookstore or at the online bookstore site [www.bookstore.csi.edu](http://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
a. The student will demonstrate a working knowledge of real numbers and exponents, equations and inequalities, graphing lines, solving linear systems, and problem solving.

b. The student will demonstrate a working knowledge of factoring polynomials, absolute value, quadratic equations, complex numbers, and rational expressions.

c. The student will demonstrate a working knowledge of problem solving with rational expressions, roots and radicals, rational exponents, and nonlinear equations.

d. The student will demonstrate a working knowledge of quadratic inequalities, functions, algebra of functions.

e. The student will demonstrate a working knowledge of exponential functions, logs and their properties, application of logs.

Policies and Procedures
a. Students will purchase the required course text with validation code for the non-transferable license.

b. 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.

c. Students will be required to take exams in the Campus Testing Center, or a site designated by the instructor. Picture ID is required to take an exam, no exceptions. **GRAPHING CALCULATORS ARE NOT ALLOWED ON EXAMS OR THE FINAL.** Cheating on exams will result in a failing grade.

d. 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.

e. Students must adhere to CSI computer lab and behavioral policies listed on pages 31 – 33 of the CSI catalog.

f. 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 on-line 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, and exams will be used to assess mastery of course content. Quizzes and exams will also be used to assess student achievement. Students will be asked to fill out a course evaluation near the end of the semester. All students will be required to complete a common final that will measure the student’s knowledge of the material that was covered throughout the course. 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 knowledge of results 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. Any quiz not taken before the student takes the exam will be recorded as a zero. Students can work ahead of the weekly schedule.

**Exams & Final**

Three exams and a comprehensive final will be given. **GRAPHING CALCULATORS ARE NOT ALLOWED ON EXAMS OR THE FINAL.** 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: 300 points</th>
<th>A: 495 – 550 points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz Scores:</td>
<td>100 points</td>
<td>B: 440 – 494 points</td>
</tr>
<tr>
<td>Final Exam Score:</td>
<td>150 points</td>
<td>C: 385 – 439 points</td>
</tr>
<tr>
<td>Total Possible</td>
<td>550 points</td>
<td>D: 330 – 384 points</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F: 0 – 329 points</td>
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</tbody>
</table>

**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/la
  for tutoring information which is available to both on-campus and on-line 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: August 25 – 29

______ Purchase textbook
______ 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 your CSI student ID number.

Two Examples
1) Steve Johnson, born December 16th, ID number 123456
   Account Login: csi
   PLATO Name: stjohnson1216
   Password: 123456

2) Ty Reynolds, born February 4th, ID number 7892
   Account Login: csi
   PLATO Name: tyrreynolds0204
   Password: 7892

Once you have entered your information, click Login.

______ Click Intermediate Algebra (Rice) 2
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: September 1 – 5

______ 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: September 8 – 12

- 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: September 15 – 19

- 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: September 22 – 26

- 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: September 29 – October 3

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, October 3rd (last day to take exam)
– Graphing calculators are not allowed.
– 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: October 6 – 10

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: October 13 – 17

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: October 20 – 24

- 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 10: October 27 – 31

- 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, October 31st (last day to take exam)
  - Graphing calculators are not allowed.
  - Exam covers everything above this point in the schedule.

WEEK 11: November 3 – 7

- 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 12: November 10 – 14

_____ 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 Homework 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 13: November 17 - 21

_____ 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, November 21st (last day to take exam)
  – Graphing calculators are not allowed.
  – Exam covers everything above this point in the schedule.
WEEK 14: November 24 – 28

___ Thanksgiving Vacation (Use this week to catch up.)

WEEK 15: December 1 – 5

___ 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 Explore 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: December 8 – 12

___ 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.
___ On-line 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. 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. 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, December 16th (last day to take final)
   – Graphing calculators are not allowed.
   – Final covers everything above this point in the schedule.