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
Intermediate Algebra – Interactive Mathematics, Personal Academic Notebook, Plato Learning, Inc., 2004. Text can be purchased at the CSI bookstore or at the online bookstore site www.bookstore.csi.edu (read "Note from Manager"). The shrink-wrapped materials will include course CDs and a one-semester, non-transferable course license. This text is a consumable textbook 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 or 1-800-680-0274.

Recommended Computer Workstation Requirements

<table>
<thead>
<tr>
<th>CPU</th>
<th>Intel Pentium II or higher</th>
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<tbody>
<tr>
<td>RAM</td>
<td>128 MB</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>300 MB free space</td>
</tr>
<tr>
<td>Video Card</td>
<td>Capable of 16-bit or 800x600; 4MB of Video Card Ram</td>
</tr>
<tr>
<td>Sound Card</td>
<td>Amplified, Windows Compatible Sound Card</td>
</tr>
<tr>
<td>Internet Access</td>
<td>56K Modem or Broadband</td>
</tr>
<tr>
<td>CD-ROM</td>
<td>16x</td>
</tr>
<tr>
<td>Operating Sys</td>
<td>Windows 2000</td>
</tr>
<tr>
<td>Web Browser</td>
<td>Microsoft Internet Explorer version 5.5 or higher; or Netscape Navigator version 4.75 or higher, or Netscape 6.2</td>
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</tbody>
</table>

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 accompanying CD's and 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 Interactive Mathematics 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 14, 15 and 16 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 a practice section (**Apply**). 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 through out 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** and **Apply**. 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.

**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 Score</th>
<th>Quiz Score</th>
<th>Final Exam Score</th>
<th>Total Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exam Scores:</strong></td>
<td>300 points</td>
<td>100 points</td>
<td>150 points</td>
<td>550 points</td>
</tr>
<tr>
<td><strong>Quiz Scores:</strong></td>
<td>100 points</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Final Exam Score:</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>Total Possible:</strong></td>
<td></td>
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</tbody>
</table>

**Log in name and password**

Your login name is your first initial and your last name without spaces. Your password is your student ID number. For example my login name would be **nice** and my password would be **123456**. If your student ID does not have six digits, your password will begin with zero(s), followed by your student ID number.

**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/adclap](http://www.csi.edu/ip/adclap) 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.
- VHS and DVD’s are available for viewing in GRM Room 202.
- Computer lab assistance available in the GRM 202.
Information regarding CSI Student Disability Services can be found on page 18 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 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 (TDD), or e-mail aflannery@csi.edu

Student telephone Computer Technical Support available at 1-800-681-HELP
Send e-mail requests for software tech support to help@academic.com or browse the support website at http://support.academic.com or call 1-800-681-HELP

CHECKLIST AND DUE DATES

WEEK 1: August 27 – 31

_____ Purchase textbook
_____ Read Syllabus
_____ Load Client Installer v 11.0 on home computer (find CD in back of course textbook). Call 1-800-681-HELP for technical support.
_____ Once internet client loads successfully, restart your computer and then log on to the course by double-clicking the new icon on your computer desktop. Select College of Southern Idaho from the pull-down list of schools from the Academic Online Home Page. Click DO A LESSON.
_____ Enter your logon name and password on the Academic Online Welcome screen. Click OK. Note: Your login name is your first initial and your last name without spaces. Your password is your student ID number. For example my login name would be nrice and my password would be 123456. If your student ID does not have six digits, your password will begin with zero(s), followed by your student ID number.
_____ Remove the Intermediate Algebra part one disk from the back of your textbook and insert it into your computer.
_____ As you begin to navigate through the Interactive Math program, you will be prompted at some point to type in the validation number. This 10-digit number can be found on the Client Installer CD envelope.
_____ Next select GETTING STARTED & TOUR and follow the computer instructions.

WEEK 2: September 3 – 7

_____ 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 book homework for Lesson EII.A and self-check work.
_____ Complete the online quiz in Evaluate for Lesson EII.A.

_____

VIEW THE MICROSOFT WORD DOCUMENT TITLED “Set Theory” YOU RECEIVED VIA E-MAIL FROM THE INSTRUCTOR.

WEEK 3: September 10 – 14

_____ 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 book homework for Lesson EII.C and self-check work.
_____ Complete the online quiz in Evaluate for Lesson EII.C.
_____ 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 book homework for Lesson EII.E and self-check work.
_____ Complete the online quiz in Evaluate for Lesson EII.E.

WEEK 4: September 17 – 21

_____ 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 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 24 – 28

_____ 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 book homework for Lesson 5.2 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 5.2.

WEEK 6: October 1 – 5

_____ 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 book homework for Lesson EII.F and self-check work.
_____ Complete the online quiz in Evaluate for Lesson EII.F.

_____ EXAM #1 – Friday, October 5th (last day to take exam)

_____ Complete the Overview for Lesson EII.B. Polynomials
_____ Complete the Explain for Lesson EII.B.
_____ Complete the Apply 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 8 – 12

_____ Complete the Overview for Lesson 10.1. Quadratic Equations
_____ Complete the Explain for Lesson 10.1.
_____ Complete the Apply 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.
_____ Complete the Overview for Lesson 10.2. Complete the Square and Quadratic Form.
_____ Complete the Explain for Lesson 10.2.
_____ Complete the Apply 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 15 – 19

_____ 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 book homework for Lesson 10.3 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 10.3.

WEEK 9: October 22 – 26

_____ 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 book homework for Lesson EII.D and self-check work.
_____ Complete the online quiz in Evaluate for Lesson EII.D.

WEEK 10: October 29 – November 2

_____ 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 book homework for Lesson 8.4 and self-check work.
_____ Complete the online quiz in Evaluate for Lesson 8.4.
EXAM #2 – Friday, November 2nd (last day to take exam)

WEEK 11: November 5 – 9

- 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 book homework for Lesson 9.1 and self-check work.
- Complete the online quiz in Evaluate for Lesson 9.1.
- 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 book homework for Lesson 9.2 and self-check work.
- Complete the online quiz in Evaluate for Lesson 9.2.

WEEK 12: November 12 – 16

- 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 book homework for Lesson 13.1 and self-check work.
- Complete the online quiz in Evaluate for Lesson 13.1.
- Complete the Overview for Lesson 13.3. Nonlinear Inequalities
- Complete the Explain for Lesson 13.3.
- Complete the Apply 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 19 – 23 …………… THANKSGIVING BREAK (use this time to work ahead or catch up)

WEEK 14: November 26 - 30

- Complete the Overview for Lesson 11.1. Functions
- Complete the Explain for Lesson 11.1.
- Complete the Apply 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.
- 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 book homework for Lesson 11.2 and self-check work.
- Complete the online quiz in Evaluate for Lesson 11.2.

EXAM #3 – Friday, November 30th (last day to take exam)

WEEK 15: December 3 – 7

- 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 book homework for Lesson 12.1 and self-check work.
- Complete the online quiz in Evaluate for Lesson 12.1.
- 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 book homework for Lesson 12.2 and self-check work.
- Complete the online quiz in Evaluate for Lesson 12.2.

WEEK 16: December 10 – 14

- 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 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](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 – Wednesday, December 19\(^{th}\) (last day to take final)