

CASPER COLLEGE COURSE SYLLABUS  
**Math 930-03 Intermediate Algebra**

**Semester/Year: Fall 2015**

**Lecture Hours: 4**

**Lab Hours: 0**

**Credit Hours: 4**

**Class Time: 7pm-8:50pm**

**Days: MW**

**Room: PS 109**

**Instructor's Name: Andrea Gray**

**Instructor's Contact**

**Office Phone: 307-215-9837**

**Email:**

[agray@caspercollege.edu](mailto:agray@caspercollege.edu)

**Office Hours: M-Th 5-7pm Saturday 9-noon in MLC (PS104)**

**Course Description:**

MATH 0930 Intermediate Algebra (4L, 4CR)

The study of rational expressions; the operations of addition, subtraction, multiplication and division of same; also includes the study of solutions and properties of radical, quadratic, exponential and logarithmic equations; in addition, students will study applications of same.

**Statement of Prerequisites:**

ACT Math score of 21-22, or a COMPASS placement score in the Algebra domain of 40-65 within the past year, or a C or better in MATH 0920 or MATH 0924. A 'C' or better in this class allows the student to take MATH 1100 or MATH 1400 within the next academic year.

**Outcomes:** Use quantitative analytical skills to evaluate and process numerical data. Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.

This course is designed to allow for you to continue the study of algebraic topics that are used in future mathematics and science courses. It is the study of the following algebraic topics: linear, rational, radical quadratic, exponential and logarithmic expressions and equations

**Course Objectives:** Students who successfully complete this course will:

1. Be able to simplify, add, subtract, multiply, and divide rational expressions and solve rational equations and applications.
2. Be able to simplify rational exponent expressions and solve radical equations.
3. Be able to solve quadratic equations and applications, and graph quadratic functions.

4. Be able to use function notation and find inverse functions.
5. Be able to convert between exponential and logarithmic notation.
6. Be eligible to take Math 1400 or Math 1100 within the next academic year.

**Methodology:**

This class is taught using **Beginning and Intermediate Algebra** by Lial, 5 th Edition, Pearson Publishing with **MyMathLab**. A variety of learning opportunities will be utilized and may include: lecture, discussion, group work, quizzes, chapter tests, and some math related writing. Each class will begin with questions from the class. Please keep in mind that all questions regarding coursework are welcomed. After questions have been answered, new material will be presented.

**Evaluation Criteria:**

Your grade in this course will be determined by overall points on homework, online homework notebook, participation, group projects, tests, and a cumulative final exam.

**Homework** will be assigned for all sections.

MyMathLab, through the publisher. These will be due at the beginning of each class.

**Late Homework** will not be accepted unless you have made arrangements with me prior to the due date.

**Tests:** There will be approximately five (5) tests worth 100 points each. All exams must be taken. If you need to miss or reschedule an exam, please let me know prior to the day of the exam. Exams will only be rescheduled for doctor's appointments or an emergency. Please notify the college in the case of an emergency.

**Quizzes:** There will be quizzes due right before the tests covering the material on the exam. All of these will be done in MyMathLab.

**Final:** The final exam will be held on the last day of class, December 14th at 7pm

**Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.**

**Attendance** is NOT part of the course evaluation, but I do keep an attendance record. New material will be presented daily and it is **your responsibility** to keep up with the course if you need to miss a class. PLEASE let me know in advance if possible if you need to miss class or an exam so we can make arrangements to review the new material or reschedule your exam. Exams will be rescheduled **only** for excused absences (ones with a documented reason, i.e. doctor's appt., etc.). Please notify student services if you have an emergency.

**Your grade in this course will be based on points:**

Homework 1 – 10 points each

Quizzes and Tests Approximately 20 – 120 pts each

Final Approximately 100 pts

Participation and other in-class activities as appropriate

### **Point Scale:**

Points will be totaled and students will be assigned letter grades based upon the percentage of the total points they earned in the course.

A = 100 – 90% B = 89 – 80% C = 79 – 70% D = 69 – 60% F = <60%

### **Required Text, Readings, and Materials:**

★ Publisher Resources: **MyMathLab (MML)** Access is needed for many homework assignments. MML comes with electronic version of textbook therefore the actual textbook is NOT required.

★ Internet access. There are several locations around campus where the internet can be accessed.

### **Recommended Materials:**

★ Small pencil sharpener - the sharpeners in the classroom do not work very well.

★ Calculator - Calculators may be rented in the math lab (\$35 a semester for a graphing / \$5 a semester for a non-graphing)

★ **Straight-edge for chapters with linear equations**

★ Colored pencils, pens, or highlighters

### **Class Policies:**

a. **Cell phones placed on silent/vibrate mode**

b. **Text messaging is not allowed for any reason.**

c. **No Laptops or tablets unless they are used to access the online textbook.**

### **Attendance, Preparedness & Participation:**

a. Attendance is crucial to student success. However, being in the seat doesn't guarantee a passing grade! It is expected that you will have regular attendance, however, if you have a problem and must miss class, please call, leave a voice-mail, e-mail me so that I know you're okay and can update you on missed material! Students who get behind on their assignments are often unsuccessful in the course. If something happens in your life that makes it a real hardship for you to meet the deadlines, please speak to me in class, e-mail me, call me, or stop by the MLC **before** you are so far behind that you can't finish the course. I'm here to help you learn and reach your goals, and I'm always willing to work with my students to make that happen.

b. When you've missed a class, it is your responsibility to contact classmates and/or me to get the information you missed. Students needing to miss class due to college-related activities (debate, livestock judging, athletics, etc.) should submit assignments early or make personal contact with the instructor to discuss alternative dates. Missing for school activities does not relieve students of their responsibilities to the class. **Remember to check moodle for class notes, handouts and other reference material!**

c. **Late assignments will not be accepted.**

d. No makeup work will be allowed for assignments, group activities or quizzes completed during class without instructor's permission. Permission to complete makeup work is at the discretion of the instructor and seeking permission for make-ups is the student's responsibility.

**Last day to Withdraw: November 12th 2015.** This is a firm deadline; no exceptions.

**Student Rights and Responsibilities:** Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

**Chain of Command:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

**Academic Dishonesty:** (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

**Official Means of Communication:** Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college's Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, [bheuer@caspercollege.edu](mailto:bheuer@caspercollege.edu). The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

## Tentative Schedule

Week	Monday	Wednesday	Topics
1	8/24/2015	8/26/2015	Intro to class, 7.1 & 7.2 review of graphs, slopes and equations of lines
2	8/31/2015	9/2/2015	7.2 More on lines, 9.2 Inequality review and absolute value equations, 7.3 Introduction to functions and relations
3	9/7/2015	9/9/2015	7.4 & 7.5 Intro to functions and relations, function notation, More functions, operations on functions, composite functions
4	9/14/2015	9/16/2015	Chapters 7 test, 6.1 - 6.3 Rational expressions and operations
5	9/21/2015	9/23/2015	6.4 & 6.5 More rational expressions and operations, complex fractions
6	9/28/2015	9/30/2015	6.6 - 6.7 Solving, applications of rational expressions, 10.1 Radical expressions
7	10/5/2015	10/7/2015	Chapters 6 test, 10.2 & 10.3 Rational exponents, simplifying radical expressions
8	10/12/2015	10/14/2015	10.4 & 10.5 Simplifying radical expressions, adding, subtracting, multiplying and dividing radical expressions
9	10/19/2015	10/21/2015	10.6 & 10.7 Solving equations with radicals, complex numbers 11.1 Solving quadratic equations
10	10/26/2015	10/28/2015	Chapter 10 test, 11.1 - 11.3 Solving quadratic equations
11	11/2/2015	11/4/2015	11.3 - 11.5 More solving, equations in quadratic form, formulas
12	11/9/2015	11/11/2015	11.5 - 11.6 Formulas, applications, graphs of quadratic functions
13	11/16/2015	11/18/2015	11.7 More on parabolas, applications, Chapter 11 test, 12.1 inverse functions
14	11/23/2015	11/25/2015	12.2 - 12.3 exponential and logarithmic functions, Properties of logarithms, common and natural logarithms
15	11/30/2015	12/2/2015	12.4 - 12.5 Exponential and logarithmic equations
16	12/7/2015	12/9/2015	12.5 - 12.6 Exponential and logarithmic equations, Chapter 12 test
17	12/14/2015		Final Exam