

**CASPER COLLEGE COURSE SYLLABUS**  
**MATH 0930-04 Intermediate Algebra**

**Semester / Year:** Fall 2015

**Lecture Hours:** 4

**Credit Hours:** 4

**Class Section(s) / Days/Times:** T W Th F 8 - 8:50pm

**Classroom:** PS 222

**Instructor's Name:** Claudia Stewart

**Office:** PS 344

**Office Phone:** 307-268-2520

**Email:** [cstewart@caspercollege.edu](mailto:cstewart@caspercollege.edu) or use Moodle Class Communication

**Office Hours:** See page 4. You may also make an appointment to meet at other times.

**Course Description:** (From The Casper College Catalog)

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 Prerequisite:**

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, MATH 1400 or MATH 1450 within the next academic year.

**Outcome:**

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.

**General Objectives:**

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.

**Specific 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 1100, Math 1400 or Math 1450 within the next academic year.

**Methodology:**

This class is taught using **Beginning and Intermediate Algebra** by Lial, 5<sup>th</sup> 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. Questions for class may also be submitted via Moodle Class

Communication if you feel uncomfortable asking in class. Please keep in mind that all questions regarding coursework are welcomed. After questions have been answered, new material will be presented.

**Evaluative 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. They include the following types:
  - Those done by hand and out of the textbook or from a worksheet. These must be done by hand, **in pencil**, and on graph paper as if required. **Please show all of your work** so that I can give you partial credit if it is due. All answers must be clearly indicated with either in a box or a double colored-line underneath your answer. Incorrect homework can be reworked and turned back in up through the end of that chapter/section.
  - MyMathLab, through the publisher. You must keep a notebook of your work for your online homework. At the end of each chapter, I will review all incorrect or late problems and award partial or whole credit where due.
  - **Notebook of all MML homework assignments.** These should be written out like regular homework problems, organized by section, give original problem, showing work and answer.
  - **Late homework policy:** You will be allowed three late homework assignments. After that late homework will not be accepted unless you have made prior arrangements with me.
- **Tests:** There will be approximately five tests worth approximately 100 points each. All exams must be taken. If you need to miss or reschedule an exam, please let me know prior to the test or the day of the test. Exams will only be rescheduled for doctor's appointments or an emergency. Please notify the college in case of an emergency.
- **Quizzes:** There may be periodic quizzes given through the semester in MyMathLab.
- **Final:** The final exam date and time will be announced later. All students must take the final.
- **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
<b>Online homework notebook</b>	1.5 – 5 points per chapter
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 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.
- A 3-ring binder that should contain all class handouts, notes, and assignments. This binder should be brought to each class. Organization is a factor in student success!
- Notebook for online homework work.
- Pencils for all homework assignments and tests.
- **Straight-edge for chapters on linear equations.**

### Recommended Materials:

- Small pencil sharpener – the sharpeners in the classrooms do not work very well
- Calculator – a calculator may be rented from the math lab.
- Stapler or make sure any multiple page assignments are stapled prior to coming to class to turn in.
- Colored pencils, pens or highlighters
- 3-hole punch for organizing your materials in your binder.

### Class Policies

#### Electronics:

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- a. Cell phones and other electronic devices are to be turned off (or at least to “silent/vibrate” mode) during class. If you have an emergency, please leave the classroom to handle it.
  - b. **No laptops or tablets unless they are strictly used to access the online textbook, homework or to take notes.**

#### 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, or moodle-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 my office **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 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: Thursday, November 12, 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 Academic Dean, and lastly the Vice President for Academic Affairs.

**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.

**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.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately outside of 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.

Claudia's Schedule for Fall 2015*					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8-9:00 AM	Office	Math 0930-04 PS 222	Math 0930-04 PS 222	Math 0930-04 PS 222	Math 0930-04 PS 222
9-10:00 AM	Math 0900-01 PS 222	Math 0900-01 PS 222	Math 0900-01 PS 222	Math 0900-01 PS 222	Office
10-11:00AM	Math 1400-01 PS 222	Math 1400-01 PS 222	Math 1400-01 PS 222	Math 1400-01 PS 222	Office
11:00AM- 12:00PM	Office	Office	Office	Office	
12:00-2:00PM		Office			
2-3:00 PM		Math Meeting			
<b>* I am also teaching an online course: Math 0900-N1 and am in my office most afternoons</b>					

Tentative Course Schedule

Week	Dates	Topics
1	25-Aug to 28-Aug	Intro to class, 7.1 & 7.2 review of graphs, slopes and equations of lines
2	1-Sep to 4-Sep	9.2 Inequality review and absolute value equations, 7.3 Introduction to functions and relations
3	8-Sep to 11-Sep	<i>Labor Day Holiday</i> 7.4 & 7.5 Intro to functions and relations, notation, operations on functions, composite functions
4	15-Sep to 18-Sep	<b>Chapters 7 test</b> , Factoring review, 6.1 Rational expressions and operations
5	22-Sep to 25-Sep	6.1 - 6.4 Rational expressions, properties, simplifying, operations
6	29-Sep to 2-Oct	6.4 - 6.6 More rational expressions and operations, complex fractions, solving
7	6-Oct to 9-Oct	6.6 Solving rational equations, 10.1 & 10.2 Radical expressions, rational exponents
8	13-Oct to 16-Oct	<b>Chapters 6 test</b> , 10.2 - 10.4 Rational exponents, simplifying radical expressions, adding and subtracting
9	20-Oct to 23-Oct	<i>Fall Holiday</i> 10.4 - 10.6 Simplifying radical expressions, adding, subtracting, multiplying and dividing radical expressions, solving
10	27-Oct to 30-Oct	10.6 & 10.7 Solving equations with radicals, complex numbers 11.1 & 11.2 Solving quadratic equations
11	3-Nov to 6-Nov	<b>Chapter 10 test</b> , 11.2 - 11.3 Solving quadratic equations, <i>Advising Day</i>
12	10-Nov to 13-Nov	11.3 - 11.6 More solving, equations in quadratic form, formulas, graphing
13	17-Nov to 20-Nov	11.6 & 11.7 Graphs of quadratic functions & applications, 12.1 Inverse functions
14	24-Nov to 27-Nov	12.1 & 12.2 Inverse and exponential functions, <i>Thanksgiving Holiday</i>
15	1-Dec to 4-Dec	<b>Chapter 11 test</b> , 12.2 - 12.3 exponential and logarithmic functions
16	8-Dec to 11-Dec	12.4 - 12.6 Properties of logarithms, common and natural logarithms, Exponential and logarithmic equations
17	14-Dec to 17-Dec	Finals week (no classes)