CASPER COLLEGE COURSE SYLLABUS
MATH 0930-05 Intermediate Algebra

Semester / Year: Spring 2016
Lecture Hours: 4 Credit Hours: 4
Class Section(s) / Days/Times: Online
Classroom: Online
Instructor's Name: Claudia Stewart
Office: PS 344
Office Phone: 307-268-2520
Email: cstewart@caspercollege.edu

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, 5th Edition, Pearson Publishing
with MyMathLab. All assignments and activities are posted online in Moodle with online homework
and quizzes through MyMathLab. You will be expected to complete all the homework, including
worksheets and question assignments, and quizzes, turn in handwork for requested assignments and
all quizzes, take proctored paper and pencil tests and participate in the discussion forum. For the bulk of this course you are not allowed to use a calculator. This is crucial to the learning process of much of this material.

**Homework** will be assigned for all sections. They include the following types:

- **Online homework**, MyMathLab (MML), through the publisher. Each assignment must be written out on paper showing the original problem and your work. You may work each problem in MML as many times as you want, but after the third attempt, the problem will change to a similar exercise. Although it is not required, try for 100% on all assignments. Quizzes will contain similar problems to the homework.

- **Worksheets** will be posted on moodle. You are expected to print them out, do your work on a separate sheet of paper, and send in the worksheet (with completed answers) AND your handwork. All worksheets require work shown unless otherwise instructed.

- **Notebook of all homework** must be kept of your work from all MML assignments, worksheets and questions assignments. You will be requested to send me a digital copy of written work done for your online homework. I will randomly select MML assignments and will require these sent to me. This work must be done as if you were turning in homework for a lecture class. It must be done neatly and in your handwriting. See the next section below and the Homework Dos and Don’ts (on Moodle) for specifics on how to write your homework.

- **Handwork** from problems on MyMathLab, worksheets, question assignments and ALL quizzes. You will send you handwork to me as a digital file attachment in a Moodle mail. These assignments must be done by hand, **in pencil**, (no scribbling out with pen) and on regular paper or graph paper as appropriate. **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.

- **Question assignments** will be regularly assigned. You may respond to these assignments via Moodle mail or as an attachment to Moodle mail. Responses are expected to be written using full sentences, grammatically correct and showing work as requested.

- **Late assignments** will NOT be accepted without the instructor’s prior approval. However, point deductions may apply. Time extensions are at the discretion of the instructor and, it is the student’s responsibility to ask for an extension. Students needing to miss class due to college-related activities (debate, livestock judging, athletics, etc.) should submit assignments early or make personal contact with me to discuss alternative dates. Missing for school activities does not relieve students of their responsibilities to the class.

- **Quizzes**: There will be one or two quizzes per chapter. Quizzes are done online through MyMathLab. You may take each quiz an unlimited amount of time with the highest grade counting. Quizzes must be done in one sitting, and **you must send me your handwork to receive credit for a quiz**.

- **Tests**: There will be four or five tests. These will be physical paper and pencil exams administer by a proctor. Each test will be worth approximately 100 to 150 points. All exams must be taken. If you need to miss or reschedule an exam, please let me know **before** the test if at all possible. Exams will only be rescheduled for doctor’s appointments or an emergency. Please notify the college in case of an emergency. Every test must be proctored by a preapproved proctor. No exceptions.
• **Final:** The final exam information will be posted on Moodle well in advance of the due date for the final.

• **Participation:** You will be expected to exchange e-mail with me, and do MML assignments in a timely manner, question assignments, worksheets and handwork. This is a very concentrated course so communication and participation is key to your success. It is **your responsibility** to keep up with the course. If you need to miss class, **PLEASE** let me know in advance if possible so we can try to make arrangements for any missed assignments. 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.

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

- Online homework 1 – 15 points each
- Handwork of worksheets and online homework 1 – 5 points each
- Question assignments 1 – 3 points each
- Quizzes (and handwork) and Tests 10 – 150 pts each
- Final Approximately 100 pts

**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%

**Requirements for Math 0930-05:**

- **A proctor.** This must be someone who does not have a close relationship to you. Ideal proctors are local educators (high school, college testing center, etc.), librarian, local business person, clergy, etc. Your proctor MUST be approved by me prior to taking your first test. This person must have access to e-mail, printer and scanner or fax machine.

- **Internet access.** This is an online class therefore you must have consistent internet access. If your internet goes down (power outage, computer problem, etc.) contact me immediately by phone or my college e-mail.

- **Printer or printer access.** There may be assignments, which you must print out, that will be posted on Moodle, must be completed by hand and sent back to me for grading.

- **Scanner, fax machine, or digital camera/phone that takes legible pictures** for submission of handwritten homework and quizzes.

- **Publisher Resources:** **MyMathLab (MML) Access** is needed for most homework assignments and quizzes. MML comes with electronic version of textbook therefore the actual textbook is NOT required. You may initially sign up for temporary free access, but you will need to purchase the code within two weeks.

- **White, 8½ x 11” paper for handwork**

- **Pencil and eraser** for homework assignments, quizzes and tests

- **A 3-ring binder** or other notebook which should contain all class handouts, notes, assignments and handwork. Organization is a factor in student success!

- **Graph paper & ruler** for any graphing

- **Calculator** – non-graphing

**Recommended Materials:**

- 3-hole punch for organizing your materials in your binder
- Colored pencils, pens or highlighters
Preparedness:
It is important that you not fall behind. 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 let me know 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.

Questions and Availability: I welcome and encourage any and all questions relating to this course or other college topics. I am here to help you be successful, so please feel free to contact me. It is best to contact me through e-mail. I will do my best to reply within 24 hours, unless I notify you in advance that I will not be available.

Last Day to Withdraw: Thursday, April 16, 2016. 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. For this course, our primary means of communication will be through Moodle mail.

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. To request academic accommodations, students must first consult with the college's Disability Services Counselor, Brent Heuer, at (307) 268-2557, office: GW 344, or 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.
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<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topics</th>
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<tr>
<td>1</td>
<td>18-Jan to 24-Jan</td>
<td><em>Equality Day Holiday; Chapter 5 factoring review; 6.1 Properties of rational expressions</em></td>
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<td>2</td>
<td>25-Jan to 31-Jan</td>
<td>6.2 &amp; 6.3 Rational expressions and operations</td>
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<td>3</td>
<td>1-Feb to 7-Feb</td>
<td>6.4 &amp; 6.5 More rational expressions and operations, complex fractions</td>
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<td>4</td>
<td>8-Feb to 14-Feb</td>
<td>6.6 Solving rational equations</td>
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<td>5</td>
<td>15-Feb to 21-Feb</td>
<td><em>President's Day Holiday, Chapters 6 test, 7.1 &amp; 7.2 review of graphs, slopes and equations of lines</em></td>
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<td>6</td>
<td>22-Feb to 28-Feb</td>
<td>7.2 More on lines, 9.2 Inequality review and absolute value equations, 7.3 Introduction to functions and relations</td>
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<td>7</td>
<td>1-Mar to 7-Mar</td>
<td>7.4 &amp; 7.5 Intro to functions and relations, function notation, More functions, operations on functions, composite functions</td>
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<td>8</td>
<td>8-Mar to 14-Mar</td>
<td><strong>Chapter 7 test</strong></td>
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<td>15-Mar to 21-Mar</td>
<td>Spring Break</td>
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<td>10</td>
<td>22-Mar to 28-Mar</td>
<td>10.1 Radical expressions, Spring Holiday</td>
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<td>11</td>
<td>29-Mar to 4-Apr</td>
<td>10.2 &amp; 10.3 Rational exponents, simplifying radical expressions</td>
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<td>12</td>
<td>5-Apr to 11-Apr</td>
<td>10.4 &amp; 10.5 Simplifying radical expressions, adding, subtracting, multiplying and dividing radical expressions</td>
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<td>13</td>
<td>12-Apr to 18-Apr</td>
<td>10.6 &amp; 10.7 Solving equations with radicals, complex numbers</td>
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<td>14</td>
<td>19-Apr to 25-Apr</td>
<td><strong>Chapter 10 test</strong>, 11.1 - 11.2 Solving quadratic equations</td>
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<td>15</td>
<td>26-Apr to 2-May</td>
<td>11.3 &amp; 11.5 More solving, equations in quadratic form, formulas</td>
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<td>16</td>
<td>3-May to 9-May</td>
<td>11.6 &amp; 11.7 Formulas, applications, graphs of quadratic functions</td>
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<td>17</td>
<td>10-May to 15-May</td>
<td><strong>Chapter 11 test</strong>, 12.1 &amp; 12.2 inverse functions, exponential functions</td>
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<td>18</td>
<td>17-May to 22-May</td>
<td>12.3 - 12.4 logarithmic functions, Properties of logarithms, common and natural logarithms</td>
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<td>19</td>
<td>24-May to 29-May</td>
<td><strong>Chapter 12 test</strong></td>
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