Casper College Course Syllabus
MATH 1400 04 -- Pre-Calculus Algebra

Semester/Year: Spring 16
Section: N1

Lecture Hours: 4
Credit: 4

Room (s): NA
Day(s): NA
Class Time: NA

Instructor's Name: Mark Kuhlman
Office: PS 130

Office Phone: 268-2369
Email: mkuhlman@caspercollege.edu

Office Hours: MTWF 9:00 – 9:50am
or by appointment

Course Description:
Elementary functions and graphing for mathematics, science, business, and engineering majors preparing for the regular calculus sequence. Includes exponential and logarithmic functions.

Extended Course Description:
This includes function notation, polynomial, rational, power, exponential and logarithmic functions.

Statement of Prerequisites:
A C or better in MATH 0930 or an ACT Composite Math score of 23 or better, within the past year, or an appropriate COMPASS Exam score.

Goal:
This course is designed to help students gain mathematical knowledge and skills using algebra concepts to solve problems. It will also prepare students to take calculus, statistics, linear algebra, and other mathematics, computer, science, and business courses that present problems needing algebra concepts to solve. This course is heavily dependent upon the use of the graphing calculator technology. The objective is that students will be familiar with and competent in using a graphing calculator to graph and solve equations and functions.

Outcomes:
Students should:

1. Be able to use function concepts including; evaluating, operations, composition, inverses, and transformations.
2. Solve polynomial, exponential, and logarithmic equations and relate and interpret these solutions.

3. Be able to graph linear, polynomial, exponential, logarithmic, absolute value, square root, piecewise defined, and rational functions.

4. Be able to model and interpret real-world problems using polynomial equations or regressions.

5. Be able to solve systems of equations.

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

Methodology:
I will use the Moodle course to deliver instruction and discussions. I will use the TI 84 graphing calculator for some math that requires technology. I will be available via Moodle e-mail to communicate with any questions that you have and will be available to you as a resource. MyMathlab can be a resource of problems and some explanations with examples and video tutorials. Please look over MyMathlab extensively and feel free to ask questions about topics and problems not covered by the instructor. MyMathlab will also be used for a majority of the homework for the course.

Evaluation Criteria:
Participation Procedure:
You are expected to participate in this class and 10% of your overall grade accounts for it. Participation is extremely important to achieve the goals for the course. Participation can be in the form of discussions, logging in frequently to make sure you have everything completed for the week, etc.

Homework Procedure:
Homework will be done through the MyMathlab software at www.mymathlab.com as well as other class assignments and projects. Make sure you have purchased a MyMathlab registration code so you can do your homework. I will have a document in Moodle showing you how to register for MyMathlab. Remember that your homework grade accounts for 30% of your overall grade so being prepared and completing the homework assignments is very important to passing the course.

Exam Procedure:
There will be 4 to 5 hour examinations throughout the semester. These exams will be via MyMathlab. I will count your best exam score twice. I will not completely throw out or disregard any examination score. The Final Exam will be a comprehensive final over the complete semester. It will be problems similar to problems on the 4 to 5 hour exams.
Grading Procedure: Probable Grade Scale:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage of Grade</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter Exams</td>
<td>40%</td>
<td>90 – 100 A</td>
</tr>
<tr>
<td>Homework</td>
<td>30%</td>
<td>80 – 89 B</td>
</tr>
<tr>
<td>Participation</td>
<td>10%</td>
<td>70 – 79 C</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
<td>60 – 69 D</td>
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<tr>
<td></td>
<td></td>
<td>Below 60 F</td>
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Other Help:
The Math Learning Center (PS 104) has learning materials covering many topics form arithmetic, algebra, and geometry. Check with the lab for the hours of availability.

Course Specific Detail:
What if you need more help or have questions!?!?!?? Please see a partial list of options for you:
1) MY OFFICE, PS 130 - either in person, by phone (268-2369), e-mail (mkuhlman@caspercollege.edu).
2) MATH LEARNING CENTER (MATH LAB) LOCATED IN PS 104. Hours will be announced.
3) Math video tutorials online such as YouTube, etc.

Text, Readings & Materials:
MyMathlab code will need to be purchased by going to www.mymathlab.com.

It is recommended that each student have their own graphing calculator. If you are going to buy a new calculator, it is recommended that you buy the Texas Instruments TI-84+ as this is the computer model we will use in class. There are some of these models available for rental in the mathematics lab. Other graphing models will work just as well if you are already familiar with the operation of these models. Texas Instruments, Hewlett-Packard, Casio and Sharp all make excellent calculators. These models I will allow and will work but I will only be able to help you operate them if you come see me in my office and if you have an instruction manual.

Class Policies: Last Date to Change To Audit Status or to Withdraw with a W Grade:
April 14th will be the last day to drop this class without permission of the instructor. You will not be allowed to audit unless you attend class regularly for the whole semester. If you are thinking about changing your course status YOU MUST see me before this date!

Student Rights & 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 in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the division chair, 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.

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. 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.

Schedule: See Moodle course and MyMathlab for a detailed schedule of activities and assignments.