Semester/Year: Spring 2016

Pre-Calculus Algebra, Math 1400-R01

Lecture Hours: 4  Lab Hours: 0  Credit Hours: 4

Class Time: 10:00-10:50 am  Days: M-Th  Room: PS 109

Instructor's Name: Debra Swedberg

Instructor's Office: PS 343 (7^3 = 343)  Office Phone: (307) 268 2251  Email: swedberg@caspercollege.edu

Office Hours: 8:20-8:50 am TuTh, 9:00-10:50 am F, 11:00-11:50* F in MLC (PS 104), 12-12:50 pm M & W & other times by appt. * Held in the MLC, PS 104

Outcomes for Casper College Graduates:
1. Demonstrate effective oral and written communication
2. Use the scientific method
3. **Solve problems using critical thinking and creativity**
4. Demonstrate knowledge of diverse cultures and historical perspectives
5. Appreciate aesthetic and creative activities
6. Use appropriate technology and information to conduct research
7. Describe the value of personal, civic, and social responsibilities
8. Use quantitative analytical skills to evaluate and process numerical data

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

Course Description: The study of elementary functions and graphing for mathematics, science, business and engineering majors as preparation for the calculus sequence. Includes exponential and logarithmic functions.

Statement of Prerequisites: ACT math score of 23 or better; or a COMPASS exam score in the Algebra domain of 66-100 within the past year.

Goal: This course is a college level class designed to either meet a math requirement for the student’s major or to prepare a student for continuation on to Math 1405 and beyond as required for student’s major.

Outcomes: The desired outcomes of this course include but are not limited to the following 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.

Methodology: This course format is called "Course Redesign". What that means to you is that it you are able to move as quickly as you can; your primary instruction modality is your computer through an online homework, quiz and exam system called MyMathLab (MML). This course requires that you be self-motivated and self-disciplined to stay on topic. It isn't for everyone but works GREAT for those who are.
**Evaluation Criteria:** This is a mastery based course. This means that you must master the material in each section before you are allowed to move onto the next section. The requirements to pass an item are as follows: HW 80%; Quizzes 75%; Exams 70% (some of these exams are password protected and must be taken in the presence of a proctor). Your scores on these activities do not count toward your final grade in any way. Your final grade is determined by the amount of work that you do each week.

You will have the potential to earn up to **10 points each week**. The distribution of these are as follows:

- 1 hour work in MML* yields 1 point
- Max of 5 pts
- Pass a Module test 4 pts/module test
- Weekly Quiz 1 point

*Note that work in MML is restricted to work done on homework, quizzes and exams.

**Grading:** Your grade will be determined by your weekly points, your score on the final and your **incompleteness penalty**. Please plan to attend class. Those who have been successful in this format also attend class every day! Notice that is not only helpful that you work outside of class; it will impair your grade if you do not.

**Incompleteness Penalty** is defined as follows: if you do not finish all 13 modules then you will be assigned a final grade of F

**Required Text, Readings, and Materials:** MyMathLab Code; textbook is optional, as there is an online, electronic copy of this textbook. This course is based on Robert Blitzer: Precalculus, 4e, Copyright 2012 Pearson Education

**Class Policies: Last Date to Change to Audit Status or to Withdraw with a W Grade:**

**Thursday, April 16th** is the last day to withdraw from this class. It is strongly observed!

**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.

**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.
Let's make this a GREAT SEMESTER?!??!

Schedule indicating course content:
Class code for SP 16: swedberg28934

The schedule for the prescribed minimum pace to complete this course follows:

<table>
<thead>
<tr>
<th>Week #</th>
<th>Module Schedule</th>
<th>Minimum Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Log in and Set up</td>
<td>1/18/16</td>
</tr>
<tr>
<td>2</td>
<td>#1</td>
<td>1/25/16</td>
</tr>
<tr>
<td>3</td>
<td>#2</td>
<td>2/1/16</td>
</tr>
<tr>
<td>4</td>
<td>#3</td>
<td>2/8/16</td>
</tr>
<tr>
<td>5</td>
<td>#4</td>
<td>2/15/16* (Pres. Day – no class, Monday)</td>
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<tr>
<td>6</td>
<td>#5</td>
<td>2/22/16</td>
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<tr>
<td>7</td>
<td>#6</td>
<td>2/29/16</td>
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<tr>
<td>8</td>
<td>#7</td>
<td>3/7/16</td>
</tr>
<tr>
<td>9</td>
<td>SPRING Break!</td>
<td>3/14/16 - 3/18/16</td>
</tr>
<tr>
<td>10</td>
<td>#8</td>
<td>3/21/16 (Good Friday – no class on campus)</td>
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<tr>
<td>11</td>
<td>#9</td>
<td>3/28/16</td>
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<tr>
<td>12</td>
<td>#10</td>
<td>4/4/16</td>
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<tr>
<td>13</td>
<td>#11</td>
<td>4/11/16* (last day to WD 4/14)</td>
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<tr>
<td>14</td>
<td>#12</td>
<td>4/18/16</td>
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<tr>
<td>15</td>
<td>#13</td>
<td>4/25/16</td>
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<tr>
<td>16</td>
<td>Catch up!</td>
<td>5/2/16</td>
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<tr>
<td>17</td>
<td>Finals week</td>
<td>5/9/16; 5/13/16* Graduation on Friday, CEC</td>
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