MATH 115, COLLEGE ALGEBRA
Section 01 (CRN 40224) or Section 02 (CRN 40225)
Fall 2015 Syllabus

Instructor: Mai Orloff                Email: morloff@csusm.edu

Lecture Times: Section 01: TTh, 9:00 am – 10:15am        Room: Kel 1106
Section 02: TTh, 7:30 am – 8:45 am        Room: Kel 1106

Office Hours:  TTh: 7:00 am – 7:25 am in Room: Kel 1106;
               TTh: 10:25 am – 11:00 am in Room: Kel 1109 (Math Lab);
               or by appointment.

Course Description: Equations and inequalities, functions, graphs, polynomials, exponential and logarithmic functions, conics, sequences and series, counting principles, binomial theorem, and systems of linear equations. Students preparing to take MATH 160 should take MATH 125 instead of this course. May not be taken for credit by students who have received credit for MATH 120 or MATH 125.

Prerequisites: Enrollment restricted to students who have completed the Entry-Level Mathematics (ELM) requirement or Passing grade in Math 30.

Textbook: College Algebra: Hybrid (w/Enhanced WebAssign Access & Guide), 9th Edition, by Larson. You will be required to purchase access to WebAssign. The license for WebAssign includes an on-line e-book, so it is not necessary to purchase a hardcopy of the text. However, you can choose to purchase the textbook at the University Bookstore which comes bundled with the access code or you can buy the access code at http://www.webassign.net.

Suggested Calculator: Scientific calculator. You may not use a cellphone, graphing calculator or PDA as a calculator on exams/quizzes.

Course Objectives: Upon successful completion of the course, students will be able to:

1. Analyze and investigate properties of functions;
2. Synthesize results from the graph and/or equations of functions;
3. Solve and apply equations including rational, linear, polynomial, exponential, logarithmic equations;
4. Solve linear and nonlinear systems;
5. Apply functions to model real world applications;
6. Apply critical thinking and quantitative reasoning skills to mathematical problem solving related areas of endeavor.
7. For additional topics
   a. Recognize the relationship between functions and their inverses graphically and algebraically
   b. Use sequences and series to model and solve real-life problems.

Homework: there are two kinds of homework – online homework and paper homework.

Online Homework:
- Online homework assignments will be assigned and completed via WebAssign. Homework will be assigned at the beginning of the week and submitted online by 11pm on Monday.

- Homework problems that are submitted 24 hours in advance of the due date/time will get an extra credit (5%) bonus. This bonus applies to each problem done in advance, so even if you cannot finish the entire homework set early, you can still pick up partial extra credit by doing as much of it by 11pm on Sunday.
If you are unable to complete the entire assignment by the deadline, you can still find it in WebAssign under “Past Assignments” and you can get an extension by clicking the “Extension Request” link. Extension requests will be automatically approved up for two days at a time. The extension window closes seven days after the original deadline. Make sure you send your request early so that you may have more time to work on the assignment. There will be a per-problem penalty for all problems done after the original deadline. This penalty will be 10%.

There will be some extra credit assignments from the Prerequisites chapter in the course text for which you will have a little more time than the regular homework assignments (but for which there will not be an additional bonus for early completion). You are encouraged to do as many and as much of these as you can early in the course to ensure that you are in the best possible position to understand and learn the material that we will be covering.

You are allowed 5 submissions unless questions have only two possible answers, which you are allowed only 1 submission.

Solutions. All the answers to the odd numbered problems are given in the textbook. The Study and Solutions Guide provides detailed solutions to all odd numbered problems. WebAssign uses a random number generator for your homework problems so your question may not exactly match the one in the book but the structure of the question will be identical.

Paper Homework or Writing Assignments

Writing Assignments will be announced in the class and posted on the WebAssign website no later than 5pm on the day on which a class session is held, and they are due at the beginning of the next class.

Writing Assignments will generally not be graded if they are turned in after either they have been reviewed in class (on the day that they were due) or they have been graded. However, with a good excuse, you can still receive a limited amount of credit for submitting a late Writing Assignment.

Writing assignments and the writing requirement: The 2500 word writing requirement will be exceeded by these writing assignments, quizzes and exams.

The lowest two homework scores (online and/or paper) will be dropped.

Quizzes: There may be a pop quiz any day. Problems for quizzes will be taken directly from the assigned homework questions. Therefore, homework should be completed by the beginning of the next class. Bring loose paper to class for the quizzes. Two of your lowest quiz scores will be dropped. All quizzes will be given at the very beginning of class. There will be no make-up quizzes.

Exams: There will be 4 midterm exams. One of your lowest midterm exam score will be dropped. The final exam is comprehensive. There will be no make-up exam.

Notes: All quizzes and exams are to be taken in class, closed book and closed notes. Only your own calculator may be used during quizzes and exams (no sharing). Please bring a self-addressed, stamped envelope if you would like to have your final exam mailed to you.
Grading:

- Homework (drop 2 lowest scores) 20%
- Quizzes (drop 2 lowest scores) 10%
- Midterm Exams (4 exams, drop 1 lowest score) 40%
- Final Exam 30%
- Total 100%

Grade Scale:

A: 90% - 100%  B: 80% - 89%  C: 70% - 79%  D: 60% - 69%  F: below 60%

Numerical course grades are rounded to the nearest whole percentage and translate to a letter grade. In computing the course grade, +/- grades will be used at the instructor’s discretion.

Posting of Grade: Interim grade will be posted on WebAssign. Final grade will be posted on MyCSUSM.

Attendance and Participation: Attendance and participation are important to your success in this class. Your contribution to the learning environment will help to determine borderline grades. Class participation includes class discussion, completing in-class exercises, etc.

Communications:

- Once you have established your WebAssign account, I would prefer that you send me any email or use the option “Ask Your Teacher” through the Communication part of WebAssign. This way, it will be easier for me to answer your question because I’ll already be in WebAssign and have access to your course info. I generally return emails within 36 hours.

- WebAssign will also hold the PowerPoint slides that summarize the lectures. Announcements, solutions to midterm exams and practice exams are also posted in WebAssign.

- The PowerPoint slides are intended to help you when you go to review your notes after class, and so that you don’t have to copy down everything I teach in the class. They are not intended as a substitute for attending class.

Getting Help: In addition to the office hours that I will be holding in the Math Lab (KEL 1108), you can go the Math Lab any time that it is open and get help from any of the tutors working there. Math Lab hours for Fall 2015 are:

  Mondays and Thursdays: 8am – 6pm  
  Tuesdays and Wednesdays: 8am – 7pm  
  Fridays: 8am – 2pm

Disabilities: Students with disabilities who require reasonable accommodations must be approved for services by providing appropriate and recent documentation to the Office of Disabled Student Services (DSS). This office is located in Craven Hall 4300, and can be contacted by phone at (760) 750-4905, or TTY (760) 750-4909. Students authorized by DSS to receive reasonable accommodations should meet with me during my office hours in order to ensure confidentiality.

Use of Electronic devices: Please turn off ALL electronic devices before class begins (except for devices to read your eBook).

Academic Honesty: You are expected to do all exams/quizzes by yourself without any assistance from others, and to follow all further guidelines given. Allowing another student to copy your work makes you
also guilty of cheating. Changing answers on an exam/quiz that has already been graded, and then claiming that the changed answers were what was on the originally submitted exam is a serious academic offense. Violations of academic honesty will be reported to the Dean of Students, and sanctions at the University level may include suspension or expulsion from the University. Furthermore, I reserve the right to assign any academic punishment for academic dishonesty, including a zero on the assignment or an F in the course.

**Expected Student Effort:** MATH 115 is a 3-unit course and is designed with the expectation that you will be spending an average of 6 hours every week outside of class reading the textbook, reviewing notes from class, solving homework problems in WebAssign, and doing the writing assignments. If you really set aside this much time every week, you should have excellent on-line homework and writing assignment grades, and you should be very well prepared for the exams/quizzes.

**Tentative Schedule**

<table>
<thead>
<tr>
<th>Week</th>
<th>Tuesday</th>
<th>Topic</th>
<th>Thursday</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-Sep</td>
<td>Intro., P.1 – P6</td>
<td>3-Sep</td>
<td>1.1, 1.2</td>
</tr>
<tr>
<td>2</td>
<td>8-Sep</td>
<td>1.3, 1.4</td>
<td>10-Sep</td>
<td>1.6</td>
</tr>
<tr>
<td>3</td>
<td>15-Sep</td>
<td>1.7, 2.1</td>
<td>17-Sep</td>
<td>2.2</td>
</tr>
<tr>
<td>4</td>
<td>22-Sep</td>
<td>Review</td>
<td>24-Sep</td>
<td>Exam 1</td>
</tr>
<tr>
<td>5</td>
<td>29-Sep</td>
<td>2.3, 2.4</td>
<td>1-Oct</td>
<td>2.5</td>
</tr>
<tr>
<td>6</td>
<td>6-Oct</td>
<td>2.6, 2.7</td>
<td>8-Oct</td>
<td>3.1</td>
</tr>
<tr>
<td>7</td>
<td>13-Oct</td>
<td>3.2, 4.1</td>
<td>15-Oct</td>
<td>4.2</td>
</tr>
<tr>
<td>8</td>
<td>20-Oct</td>
<td>Review</td>
<td>22-Oct</td>
<td>Exam 2</td>
</tr>
<tr>
<td>9</td>
<td>27-Oct</td>
<td>5.1, 5.2</td>
<td>29-Oct</td>
<td>5.3</td>
</tr>
<tr>
<td>10</td>
<td>3-Nov</td>
<td>5.4</td>
<td>5-Nov</td>
<td>5.5</td>
</tr>
<tr>
<td>11</td>
<td>10-Nov</td>
<td>Review</td>
<td>12-Nov</td>
<td>Exam 3</td>
</tr>
<tr>
<td>12</td>
<td>17-Nov</td>
<td>6.1, 6.2</td>
<td>19-Nov</td>
<td>6.5</td>
</tr>
<tr>
<td>13</td>
<td>24-Nov</td>
<td>8.1, 8.2</td>
<td>26-Nov</td>
<td>No School</td>
</tr>
<tr>
<td>14</td>
<td>1-Dec</td>
<td>8.3</td>
<td>3-Dec</td>
<td>Review</td>
</tr>
<tr>
<td>15</td>
<td>8-Dec</td>
<td>Exam 4</td>
<td>10-Dec</td>
<td>Review</td>
</tr>
</tbody>
</table>
| 16   | 15-Dec  | Final Exam: Tuesday, December 15  
Section 01: 9:15 AM - 11:15 AM  
Section 02: 7:00 AM - 9:00 AM |

The instructor reserves the right to add, change, or modify the syllabus, including test/quiz days, by announcing such changes in class or in WebAssign.