

Pre Calculus I
Item #6332
M – F: 8 – 8:50am
17-101

Math 115

Fall 2006
Item #6336
M – F: 11 – 11:50am
17-101

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Course Description: Study of functions; cover sets, relations, equations of circles; function study including domain, range, inverses, 1-1, algebra of functions. Types of functions studied: polynomial, exponential, logarithmic, rational, and absolute value; and sequences and series.

Course Objectives: *The student will be able to ...*

1. Create graphs of equations in two variables, such as lines and circles.
2. Understand the concept of a function, and be able to identify functions' domains and ranges.
3. Use function notation to evaluate and combine a variety of functions.
4. Determine if a function is 1 to 1 and find its inverse.
5. Recognize and graph polynomial functions. Find zeros of polynomials using several methods, including synthetic division.
6. Recognize and graph rational functions, including the identification of asymptotes.
7. Understand and use exponential and logarithmic functions.
8. Use course knowledge to solve a variety of applied problems, including solving equations and inequalities using principles of functions.
9. Understand the definitions, notation, and basic techniques for creating and describing sequences and series.
10. Know when and how to use technology, such as graphing calculators, to accomplish the above outcomes.

Text: *Pre calculus, 5th ed.* Stewart, Redlin, and Watson (ISBN: 0-534-49277-0). Bring the book to class!

Prerequisite: Math 097 with a minimum grade of 2.0 or COMPASS algebra score of 71.

Calculators: A graphing calculator is required for this course.

- i. The TI-83/4 family graphing calculator is recommended. The use of symbolic calculators such as the TI-89 and TI-92 will not be allowed during exams. Furthermore, the use of all calculators may be prohibited during some exams (forewarning will be given).
- ii. Calculators may be rented from the math department on a first come first serve basis. To rent a calculator, pay the rental fee at the cashier in building 6 and then submit the form to me.

Homework: The format and grading criteria for homework is as follows.

- i. **Format:** Homework must be done on Engineering Paper (Engineer's Computation Pad in the Bookstore). Write your name, the date, and section number in the upper-right corner. Multiple page assignments must be stapled in the upper-left corner. Each problem should be labeled with the problem number. Your work should be done neatly in pencil and you should generously space each problem.
- ii. **Grading:** Your homework grade will be based on the number of problems you solve correctly. Homework will be graded for format, accuracy, and the clarity of the supporting work. Your two homework assignments with the lowest grades will not be counted toward your grade. *Late assignments will not be accepted.*

Group Quizzes:

- i. **Quizzes:** There will be a number of group quizzes given throughout the quarter. These cannot be made up and they cannot be taken at other times.

Tests: There will be three tests given during the quarter.

- i. The exams will be cumulative, but will emphasize the material covered since the last test.
- ii. If you miss a test, a score of 0% will be assigned. All tests must be taken during the scheduled class time. *No make-up tests.*
- iii. Communication as well as sharing of calculators during exams is prohibited.

Final Exam: A comprehensive final exam will be held in the regular class meeting room. The final will be on *Tuesday, December 12th* from 8 – 9:50am for the 8am class and from 10 – 11:50am for the 11am class. The final exam is mandatory and a grade of 0.0 may be assigned at the instructor’s discretion to those who fail to take the final exam.

Grading: Homework: 15%, Exams: 55%, Final Exam: 30%. GPA’s will be given according to:

95-100%	4.0	% % %	GPA	% % %	GPA	% % %	GPA	% % %	GPA
93-4%	3.9	81%	3.1	73%	2.3	65%	1.5	57%	0.7
91-2%	3.8	80%	3.0	72%	2.2	64%	1.4	56%	0.6
89-90%	3.7	79%	2.9	71%	2.1	63%	1.3	55%	0.5
87-8%	3.6	78%	2.8	70%	2.0	62%	1.2	54%	0.4
85-6%	3.5	77%	2.7	69%	1.9	61%	1.1	53%	0.3
84%	3.4	76%	2.6	68%	1.8	60%	1.0	52%	0.2
83%	3.3	75%	2.5	67%	1.7	59%	0.9	51%	0.1
82%	3.2	74%	2.4	66%	1.6	58%	0.8	0-50%	0.0

Policies and Notes:

- i. **Attendance:** You are responsible for all material covered in class including all announced changes to the schedule and assigned course work. (If you miss class, *you* are still responsible for everything in class).
- ii. **Cell Phones:** The use of cell phones, pagers, and palm pilots in class is strictly prohibited. Failure to comply may result in your removal from the classroom.
- iii. **Corrections:** Changes and corrections to grading must take place during the week following the original distribution of the graded material. It is your responsibility to confirm accurate grading and bring it to my attention in a timely fashion.
- iv. **Tutor Center:** Cost-free individual and group mathematics tutoring is available at the *Tutoring Center*. The *Tutor Center* is located in building 26, room 319. Their hours may be found at: <http://flightline.highline.edu/tutoring/>
- v. **Math Resource Center:** Math materials, study space, and conceptual (vs problem specific) math help is available in 26-319H. Some of my office hours will take place in the MRC (TBA).
- vi. **Academic Dishonesty:** Cheating, plagiarism, and other forms of academic dishonesty are unacceptable. Dishonesty is punishable by failure of the assignment, class, or even expulsion from the school. It is both your right and responsibility to be familiar with the document entitled: Student Rights and Responsibilities code WAC 1321-1210 adopted by the Board of Trustees of Community College District 9 on July 9, 1992. This is available in the counseling center. If you are uncertain as to what constitutes academic dishonesty, please feel free to speak with me.
- vii. **Special Concerns:** If you have any special concerns about this class, please talk to me personally in my office. The more I know about you individually, the more I can help you be successful in this course. If you need course adaptations or accommodations because of dis-Ability; if you have emergency medical information to share with me; or if you need special arrangements in case the building must be evacuated, please provide me with the Letter of Accommodation you have received from the Office of Access Services. Access Services is located in Building 6 in the Student Development Center.
- viii. **Important Dates:** *October 13th*: last day to drop without incurring a “W.” *December 1st*: last day to officially withdraw.