

Math 104F: Precalculus I - Functions

CRN: 11393

Spring 2013: 1/7 - 5/10

Days and Time: MWF 8-8:50

Room: W 14

Instructor: Diana Webb

E-mail: dtwebb@hawaii.edu

Office: CH 2A

Hours: MWF 11:30-12:30 and by appt.

Course Information: Math 104F is the first course of a year long Precalculus sequence. In addition to computational skills such as those practiced in algebra, attention will also be given to conceptual ideas such as those studied in calculus. Topics include general properties of functions, polynomial and rational functions, and exponential and logarithmic functions.

Learning Outcomes: The successful Math 104F student will be able to

- graph polynomial, rational, absolute value, and root functions and their transformations
- compose functions
- understand the concept of an inverse function and be able to find inverse functions
- solve inequalities involving polynomial and rational expressions
- evaluate and graph exponential and logarithmic functions
- solve equations involving exponential and logarithmic expressions
- solve applied problems involving exponential growth and decay

Prerequisite: C or better in Math 103, or recommendation from Math Placement Exam

Required Text: Precalculus - Functions and Graphs by Mark Dugopolski, Custom Edition for University of Hawaii, Hilo

Calculator Use: A TI-84 graphing calculator (or similar model) is recommended for this course although a scientific calculator will also suffice. Cell phones will not be permitted on test so be sure to bring a calculator to class.

Tests: (450 points) We will cover chapters 2-4 with a test (worth 100 points each) at the end of each chapter. There will also be a cumulative final exam worth 150 points.

Homework: (100 points) Homework will be assigned weekly through MyLab/Mastering (website: <http://pearsonmylabandmastering.com/>). The course id is webb18893.

Quizzes: (50 points) Several in-class quizzes will be given throughout the course. These quizzes will be announced one class period in advance. The top 5 quizzes will count towards your grade. There will be no make-up quizzes.

Grading Standards: Your grade will be determined as follows.

- A 540-600 points
- B 480-539 points
- C 420-479 points
- D 360-419 points
- F below 360 points

Tentative Course Schedule:

Weeks	Sections Covered	Test Dates and Holidays
1-5	chapter 2	Holiday (M 1/21) Test 1 (F 2/8)
6-10	chapter 3	Holiday (M 2/18) Test 2 (F 3/15)
11-15	chapter 4	Spring Break (3/25-3/29) Test 3 (F 4/26)
16	review	last day of class (W 5/1)
Finals Week		Final Exam (Wednesday 5/8 7:30-9:30)

Math Tutoring Lab: Free walk-in tutoring is available in CH 5. The best way to learn math is by practicing, so it may prove very helpful to spend regular hours in the lab doing homework, meeting with others in the class, etc.

Attendance and Class Conduct: Students are expected to be in class everyday. If you miss class, you will be responsible for retrieving homework assignments and any other announcements. All students are expected to follow the UHH Student Conduct Code.

Disability Statement: Any student with a documented disability who would like to request accommodations should contact the Disability Services Office - Hale Kauano'e A Wing Lounge, 933-0816 (V), 933-3334 (TTY), uds@hawaii.edu - as early in the semester as possible.