Course Description: Algebra review, functions with special attention to polynomial, rational, exponential and logarithmic functions, composed and inverse functions, techniques of graphing. Credit allowed for just one of Math 135 or Math 140. A passing grade fulfills the prerequisites for both Math 140 and Math 203.

Grade Options: CR/NC or Audit.

Prerequisites: 2 years high school algebra, 1 year plane geometry.

Course Format: The lectures for this class are online, and you are required to watch them on your own time according to the schedule on the website.

Instructor:
Paul Nguyen
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http://math.hawaii.edu/~gnuyen

Office Hours: T 12:00pm-1:20pm

Course Web Page: http://math.hawaii.edu/~gnuyen/135SP11/
A detailed class schedule, homework assignments and solutions, announcements, lecture notes and videos, and grades will be posted on the class web page. Students are expected to check the class web page frequently.

Topics: (The numbering of the lectures refers to Professor Myers’ Math 140 lectures.)
Linear equations and inequalities (Lecture 1 & 2)
Equations involving rational expressions
Integer and rational exponents
Manipulating polynomial expressions
Relations and functions (Lecture 3 & 4)
Linear functions (Lecture 2)
Composition of functions, inverse functions (Lecture 6 & 7)
Quadratic equations and functions (Lecture 8)
Rational expressions and division of polynomials (Lecture 3)
Graphing techniques (Lecture 5)
Graphing polynomial and rational functions (Lecture 9 & 10)
Properties of logarithms (Lecture 12 & 13)
Logarithmic and exponential equations (Lecture 12 & 13)
Graphing logarithmic and exponential functions (Lecture 11 & 12)

Attendance: Attendance is mandatory. Three missed classes will mean a grade of “NC”. Being late or leaving early will count as a partially missed class. You are also required to do 6 hours of ALEKS the first week and 10 hours of ALEKS every week after that. Failing to do so will count towards absences. In addition to attending lectures you are required to attend the laboratory hour following class.
Exams: There will be two exams: a midterm and a final. A sufficient score on each exam is required for a grade of “CR”. Students will be allowed to take each exam twice. The department assessment exam may be substituted Inform your instructor of scheduling conflicts well in advance. A note from a physician or a dean will be required for a student to make up a missed exam.

Grades: Math 135 is a credit/no credit course. There are two ways to pass the course:

- Option 1
  - A passing score on the midterm examination.
  - A passing score on the final examination.
  - No more than 3.0 total absences.
  - 4 hours of ALEKS work per week OR mastery of the ALEKS course.

- Option 2
  - No more than 3.0 total absences.
  - 4 hours of ALEKS work per week.
  - Mastery of the ALEKS course.
  - A passing score on the final examination OR the department’s assessment exam.

Grades are posted on laulima in the Postem section. Check your grades on a regular basis.

Lecture Videos: Professor Dale Myers’ Math 140 lecture videos. See the course web page for more information.

Course Objectives and Student Learning Outcomes: Upon successful completion of Math 135, the student will be able to work with, apply, and answer questions pertaining to the material in the list of topics at the level of a standard “College Algebra” text.

Academic Expectations: In addition to adhering to and following the University Student Conduct Code students are expected to follow the Mathematics Department Academic Expectations.

Required Material:

- Access to ALEKS. To set up access go to http://www.aleks.com. Click on “SIGN UP NOW!” and enter the course code 9LT6E-J4WTT. Purchase the ALEKS Math (6 Week) license.

Suggested Material: Any College Algebra text (older editions are fine) or Cohen’s Precalculus (formerly used in Math 140 - Cohen) or Stewart’s Precalculus (currently used in Math 140 - Stewart) and Professor Dale Myers’ Math 140 course package. ALEKS also provides an electronic version of a standard precalculus text.

Tutoring: Your primary resource is your instructor and you may work with a tutor if you wish. If you would like to work with a tutor the mathematics department offers free tutoring in PSB 315. A link to the tutoring room schedule is posted on the the course website.
General Remarks:

- Students absolutely must read the designated lectures and examples before coming to class and attempt the practice problems before class without looking at the solutions. Class will consist of a short lecture, a Q & A session based on your preparation, and a practice session. After class check your work against the posted solutions, bring your questions to office hours or class, and prepare for the next lecture.

- Math 135 is a “refresher” course and we assume that you are familiar with the material. If you have never been exposed to the above topics or if you scored in the single digits on the assessment exam, then you may find this course overwhelming.

- During the first week of instruction students are required to complete all three intermediate objectives of the ALEKS Prep for PreCalculus Course. Students will schedule an appointment with their instructor on January 18 for mandatory advising to discuss their progress and whether Math 135 is the right course to take at this time.

- Calculators will not be used in this course, nor will they be allowed on quizzes or exams. You should therefore not be using calculators on your homework.

- ALEKS will be used primarily for practice and attendance and does not figure into grade calculations. In the past, the successful students spent significantly more time using ALEKS than the one hour following lecture, while those students who chose not to invest into online practice failed the course.

- The vast majority of questions about the course are answered by consulting the syllabus or the class web page. Please familiarize yourself with both.

- If you are not comfortable with the above two remarks, then the sequence of Math 024, 025 and 103 at a UH community college is a better option for you.

PSB 208 Computer Lab Login Information:

User Name:______________

Password:______________