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 below. The class meets two times a week for two hours. One hour will be supervised small group work, one hour will be online practice.

Instructors:
Paul Nguyen
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Office Hours: Official office hours are announced on the course web page.


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.)
Week 1: Linear equations and inequalities (Lecture 1 & 2)
Week 2: Equations involving rational expressions
Week 3: Integer and rational exponents
Week 4: Manipulating polynomial expressions
Week 5: Relations and functions (Lecture 3 & 4)
Week 6: Linear functions (Lecture 2)
Week 7: Function arithmetic (Lecture 6 & 7)
Week 8: Quadratic equations and functions (Lecture 8)
Week 9: Midterm
Week 10: Inverse functions (Lecture 7 & 8)
Week 11: Rational expressions and division of polynomials (Lecture 3)
Week 12: Spring Recess
Week 13: Graphing techniques (Lecture 5)
Week 14: Graphing polynomial and rational functions (Lecture 9 & 10)
Week 15: Properties of logarithms (Lecture 12 & 13)
Week 16: Logarithmic and exponential equations (Lecture 12 & 13)
Week 17: Graphing logarithmic and exponential functions (Lecture 11 & 12)
Week 18: Final Examination

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 (0.2 absences). You may make up a full absence by attending the instructor’s office hours. 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. 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.

**Quizzes:** Nearly every day of class there will be a quiz in the lab. This is usually how attendance is recorded.

**ALEKS:** The online component of the course is called ALEKS (Assessment & Learning in Knowledge Spaces). Students are required to complete a minimum of 4.0 hours of ALEKS work each week.

**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.

- **Option 2**
  - Attempt both and pass one of the exams. A failed attempt must earn a score better than chance.
  - No more than 3.0 total absences.
  - Mastery of the ALEKS course OR a passing score on the department’s assessment examination.

Grades are posted on the course web page. 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.

**Program Objectives:** The successful student will acquire the skills prerequisite to Math 203, Calculus for Business and Social Sciences, and Math 140, Precalculus.

**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:

• Please remember to fill in your ID number when registering for ALEKS and do not include the dash!

• ALEKS Prep for PreCalculus Course. To set up access go to http://www.aleks.com. Click on “SIGN UP NOW!” and enter the course code 3C9GA-Q44YG. Use the Financial Aid Access Code 86D51-7EE15-AEF55-21350 and DO NOT purchase the full 6-week license.

• Access to ALEKS. To set up access go to http://www.aleks.com. Click on “SIGN UP NOW!” and enter the course code

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  Purchase the ALEKS Math (18 Week) license. The cost is $70.

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.

Suggested Reading: Anything on Professor Dale Myers’ Math 140 website. In particular, the worked examples are an excellent study aid.

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 course website.

PSB 208 Computer Lab Login Information:

User Name:__________________

Password:__________________
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.

- 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. 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. ALEKS is self-paced and the best indicator of your current progress in the course. If your current ALEKS objectives have already been covered in class, you are ahead in the coursework. If you have not yet seen on ALEKS topics covered in lecture, then you are behind and need to catch up.

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

- A grade of “NC” will issued to students who are absent for a prolonged period without the instructor’s approval or who do not attempt both exams.

- Students graduating to Math 140 will complete a total of 5 credit hours, but earn 3 credit hours. Credit allowed for just one of Math 135 or Math 140.

- 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.

Important Dates:

- January 9 - First day of instruction.
- January 17 at midnight - Last day to withdraw without a "W".
- January 18 - Last day to register. Last day to withdraw with a "W" and/or receive 100% refund.
- January 30 - Last day to withdraw with a "W" and/or receive 50% refund.
- March 9 at 4:00 pm - Last day to withdraw with a "W".