**Course Description:** Functions with special attention to polynomial, rational, exponential, logarithmic, and trigonometric functions. Plane trigonometry, polar coordinates, conic sections. Credit allowed for just one of Math 135 or Math 140.

**Grade Options:** Standard Letter A-F, CR/NC or Audit.

**Prerequisites:** 2 years high school algebra, 1 year plane geometry, passage of assessment exam.

**Course Format:** The content is entirely online. The class meets on Wednesday 1:30 pm - 2:20 pm at Keller 401.

**Instructor:** Thilanka Arachchi Appuhamillage
Keller Hall 312
thilanka@math.hawaii.edu

**Office Hours:** Official office hours are announced on the course webpage.


Students are expected to check the class web page frequently.

**Topics:** See the course webpage at [http://math.hawaii.edu/wordpress/thilanka/teaching-fall-2014/math-140/](http://math.hawaii.edu/wordpress/thilanka/teaching-fall-2014/math-140/)

**Attendance:** Attendance is mandatory. A note from a physician or a dean will be required for a student to make up a missed class or exam.

**Exams:** There are four midterms, a Gateway Exam, and a cumulative final. Two of the midterms will be computerized, the other two midterms, the Gateway Exam, and the final are written. Before each midterm you will have to pass a pre-exam. In addition, you will have to attempt a Gateway Exam before the first midterm. All exams will be administered at UH. Exam dates and other helpful resources are posted in the course website at [http://math.hawaii.edu/wordpress/thilanka/teaching-fall-2014/math-140/](http://math.hawaii.edu/wordpress/thilanka/teaching-fall-2014/math-140/)

**Quizzes:** There will be regular weekly quizzes on ALEKS due before the start of the weekly tutorial.

**Homework:** There will be a daily homework assignment.

**ALEKS:** The online component of the course is called ALEKS (Assessment & Learning in Knowledge Spaces). There will be a short daily homework assignment on ALEKS available at noon of each weekday and due 48 hours after. Each homework assignment will consist of 10 questions and have a 30 minute time limit. Each homework may be attempted three times. The final submission is recorded. In addition, students will receive a completion score on the intermediate objectives and assessments. Also ALEKS will give you assessment assignments time to time. They will not be graded, but I highly recommend you to do at least some of them as review of the material. Only the homework and quizzes in ALEKS are graded.

**Grades:** Letter grades are assigned according to rank on the total grade score. To get a C or better, you must pass a Gateway Exam. The course grade is calculated according to the following formula:

\[
\text{Grade score} = 10 \times (\text{four midterm exams} + 200 \text{ point final exam}) + \text{homework} + \text{quizzes}
\]

\[
\text{Homework} + \text{Quizzes} \sim 13\%, \text{ MT I, II } \sim 7\% \text{ each, MT III, IV } \sim 18\% \text{ each, Final } \sim 36\%
\]

**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 140, 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 precalculus text.
Program Objectives: The successful student will acquire the skills prerequisite for calculus.

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!**

- Access to ALEKS. To set up access go to [http://www.aleks.com](http://www.aleks.com). Click on “SIGN UP NOW!” and enter the course code KJ6M4-3DYC3 Purchase the ALEKS Math (18 Week) license. The cost is $72. Alternatively, use the code 069BD-6B835-5FB3D-A6577 to register right away with temporary access to ALEKS. At the conclusion of the trial you still need to purchase the 18 week license for $72.

- Textbook. Access to ALEKS does not include access to our textbook, *Precalculus* by Steward, Redlin, Watson, 5th. ed. The textbook is available from the bookstore.

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.

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 Bilger Addition 209. A link to the tutoring room schedule is posted on the the course website.

General Remarks:

- The online section of Math 140 is specifically designed for students who are otherwise unable to enroll in the regular math 140 lecture course, are, therefore, highly self-motivated and disciplined, and have some background in precalculus.

- 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.

- Students are strongly encouraged to keep a written record of their work in order to practice the presentation of mathematics at the university level. Your work should be complete, neat, readable, and organized. Follow textbook examples when in doubt how to present a problem. Do not merely state the answers, rather, restate the problem, show the complete solution and answer the question in a complete sentence. Graphs must be plotted neatly with the plot and axes labeled and correctly scaled. To this end, your textbook style presentation will serve as an invaluable study guide for quizzes and examinations.

Important Dates:

- August 27 - First day of instruction.
- September 2 at midnight - Last day to withdraw without a “W”.
- September 3 at 4:00pm - Last day to register or change grade option. Last day to withdraw with a “W” and/or receive 100% refund.
- September 15 - Last day to withdraw with a “W” and/or receive 50% refund.
- October 24 at 4:00 pm - Last day to withdraw with a “W”.
- December 17 - Final examination at 12:00 noon.