**COURSE SYLLABUS**

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**YEAR COURSE OFFERED:** 2015
**SEMESTER COURSE OFFERED:** Spring
**DEPARTMENT:** Mathematics
**COURSE NUMBER:** 4389
**NAME OF COURSE:** Survey of Undergraduate Math
**NAME OF INSTRUCTOR:** Melahat Almus
**Course website:** [http://math.uh.edu/~almus/4389_fall15.html](http://math.uh.edu/~almus/4389_fall15.html)
**Instructor’s email:** almus@math.uh.edu

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The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

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**Learning Objectives**

**Text:** There is no assigned text for the course. You will be provided with pdf files of course materials.

As the course title indicates, this is a review and survey of topics in the undergraduate mathematics curriculum that are studied in other courses. The course is organized as a set of 2 to 3 week modules in linear algebra, differential equations, analysis, and abstract algebra. The modules are self-contained and although previous exposure would be helpful, the work required does not assume that you have had it. At the end of the course, students are required to take the Major Field Test in mathematics, a national test administered in the University Testing Center. Our purpose in requiring the test is to have a national benchmark by which to evaluate our undergraduate curriculum. See the "policies" statement below for how the test affects your grade.

**Prerequisites**

The prerequisites for Math 4389 are

Math 3330: Abstract Algebra
Math 3331: Differential Equations
Math 3333: Intermediate Analysis
Three hours of 4000 level Mathematics courses, or consent of instructor.
Homework:

There will be a homework assignment due during most weeks. Most assignments will be due on Sunday nights at 11:59pm. You will need access to a scanner in order to upload your assignments to [www.casa.uh.edu](http://www.casa.uh.edu). Your assignments will be graded and you may view your graded assignments online after the grades have been posted.

Quizzes:

There will be in-class quizzes on most weeks.

Attendance:

Attendance is strongly encouraged.

Reading Assignments:

Reading assignments from the textbooks will be indicated in the course schedule. You will be expected to read the assigned chapters carefully, ahead of time and to participate in the discussions in class.

Additional information:

Your semester grade in Math 4389 will be based on the class assignments and homework sets assigned with each subject module, and to some extent on your performance on the Major Field Test in mathematics.

Your “daily average” is calculated as $0.30 \times \text{Quiz avg and attendance} + 0.70 \times \text{HW avg}$.

Your semester average will be $\frac{1}{3}$ of your daily average plus $\frac{2}{3}$ of your MFT score, or 100% of your daily average, whichever is larger. Your letter grade will correspond to your semester average, according to the standard scale. However, you are not eligible for an A unless you score at or above the national median on the MFT and you must take the test to pass the course. You will schedule and take the Major Field Test at the University Testing Center sometime during the last two weeks of class. You must pay the fee (around $50) for taking the test. To compensate for this expense there is no textbook for the course and all other learning materials will be supplied free.

Honor Principal:

University of Houston students are expected to adhere to the Academic Honesty Policy (see the Student Handbook for more details).
COURSE SYLLABUS

Whenever possible, and in accordance with 504/ADA guidelines, we will attempt to provide reasonable academic accommodations to students who request and require them.