MATH 475 (MAST 661A/865A)
Discrete Dynamical Systems, Chaos and Fractals
Fall 2016

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Office Hours: TBA or by appointment.

Recommended Textbooks:
3) Fractals Everywhere by Michael F.Barnsley.

Topics:
1. Introduction to Ergodic Theory
2. Basic Constructions in Ergodic Theory
3. Ergodic Theorems
4. Frobenius-Perron operator and absolutely continuous invariant measures

Assignments: Homework will be given weekly and constitutes a very important part of the course. Students are encouraged to use Maple (or other such system) whenever it is applicable. Late homework will not be accepted.

Midterm Exam: There will be an in-class test. The exact date of the exam will be announced during the lecture at least two weeks in advance.

Final Exam: To be announced.

Evaluation: The final mark is the maximum of:
20% assignments + 20% midterm test + 60% final exam
100% final exam