

MATH673 — SPRING 2019

DYNAMICAL SYSTEMS

- Instructor::** Dr. Harbir Lamba
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Office: Exploratory Hall, Room 4459
Office Hours: TR 4.30–5.30 and by appointment. There will also (sometimes) be office hours on Fridays but with times changing weekly. Check the webpage for details.
Webpage: <http://math.gmu.edu/~harbir/m673/>
- Textbook:** Alligood, Sauer and Yorke, *Chaos: An Introduction to Dynamical Systems*, Springer 2000.
- The Course:** We will cover material from the first 12 Chapters — pretty much everything from the early chapters and then skipping and skimming some material depending on the time available.

The course will be graded on the basis of a mid-term on March 19th, a (cumulative) final exam on May 9th and two numerical projects. No outside materials will be allowed during the exams.

In addition there will be homework problems set at the end of each class. These should not be handed in but you are **STRONGLY** advised to study them and write out your solutions properly. You are also encouraged to discuss these problems amongst yourselves and make use of the office hours. I will go through many of the homework problems in the following class and you will not benefit from this if you have not made a serious attempt at them beforehand.

Finally, I will start the semester allowing the *quiet* use of electronic devices but reserve the right to ban them (or you!) if I or anyone else finds it distracting — please keep their use to a minimum.