

MATH 465,

Lecture (39674R): MWF 1:00 – 1:50, KAP 138

Text: **Nonlinear Dynamics & Chaos** by **Steven H. Strogatz**

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COURSE SYLLABUS SPRING 2009

TOPIC	SECTIONS
Chap. 2: Flows on the line	2.0 - 2.4, 2.6 - 2.8
Chap. 3: Bifurcations	3.0 - 3.2, 3.4 - 3.7
Chap. 5: 2-Dim. Linear Systems	5.1 - 5.3
Chap. 6: Phase Plane	6.0, 6.1, 6.3 - 6.7
Chap. 7: Limit Cycles / Poincare Bendixson Theorem	7.0 - 7.5
Chap. 8: Bifurcations Revisited	8.0 - 8.2, 8.7
Chap. 9: Lorenz Equations	9.2, 9.3
Chap. 10: One Dimensional Maps and chaos	10.0 - 10.6
Chap. 11: Fractals	11.0 - 11.4

Exam I	Wednesday----- February 18
Exam II	Wednesday----- April 1
Final Exam:	Wednesday----- May 6, 2:00-4:00

Jan. 19, Feb. 16, Mar. 16--21 --University Holidays

Jan. 30 -- Last day to drop without "W"

Apr. 10 -- Last day to drop with "W"

GRADING POLICY

2 Midterm Exams--40% of grade
Homework --30%, Final--30%