Goals: This course aims to present a subset of the “standard” material of Math 232 (Calculus II) plus additional material on differential equations, probability, and networks in a setting emphasizing both biological examples and the expected “mathematical needs” of biology and health sciences students.

Textbook: *Modeling the Dynamics of Life* by Adler, 2nd edition. We will also make use of a number of handouts posted on the course website.

Course Website: The students are responsible for periodically checking in on the course website (http://www.unc.edu/1am9/Math232.html). Please check the website regularly for assignments, additional materials, announcements, and exercises.

Prerequisites & Expectations: It is assumed that the students remember the essentials of pre-calculus and Math 231. Students should also be interested in learning applications of calculus to biology as well as some useful computational tools. No classes will be held during recognized university holidays. Please refer to the university calendar for drop dates. One homework assignment will be dropped from the class average. No late assignments nor make-up examinations will be given without a valid excuse given in a timely manner. Makeup tests will be oral exams.

Exams: In-class exams (50 minutes) will be given on Wednesday February 6th, Wednesday March 7th, and Wednesday April 4th. The final exam will be at the time assigned by the Registrar, Tuesday May 8th, 12:00-3:00pm.

Homework & Projects: Homework will be assigned every Friday and due the following Friday, unless otherwise noted.

Grades: Each in-class exam will count for 1/6 of the total course grade, while the total homework score will count for 1/4, and the final exam for 1/4. It is important to emphasize that grades will almost certainly not be determined by the “90/80/etc.” system that many of you may be used to; rather, the dividing lines between grades will be determined by a combination of class performance and instructor expectations.

Office hours: To be arranged. Please see course website.

Honor Code: Students in this class are expected to abide by the UNC Honor Code. All academic work should be done with the high level of honesty and integrity that this university demands. Students must avoid any academic misconduct, including but not limited to: (1) possessing, using, or exchanging improperly acquired written or oral information in the preparation of a paper or for an exam; (2) substitution of material that is wholly or substantially identical to that created or published by another individual or individuals; (3) false claims of performance or work that has been submitted by the student.

Resources: The Math Help Center is available in Phillips 224, Monday through Thursday, 3:30-7:30pm, or click on “Math Help Center” from the Math homepage (http://www.math.unc.edu).