

Syllabus for Math 865, Spring 2011

Topics in Applied Mathematics: Mathematical Modeling of Biological Processes

Please read this syllabus carefully. You will be responsible for all the information given here, and for any modifications to it that may be announced in class. Updated information and handouts can be accessed at our website: www.math.ohio-state.edu/~kao/

Instructors: Avner Friedman and Chiu-Yen Kao

Handouts: (1) Several handouts will be provided in the class.

Lecture: 9:30am MWF@ Jennings Hall 50

Topics: ODE and PDE models for cell regulations, virus dynamics and disease.

Office Hours: Friedman: by appointment; Kao: WF 10:30-11:30am @ MW410

E-mails: afriedman@math.ohio-state.edu; kao@math.ohio-state.edu

Tentative Schedule:

See website for detail information:

http://www.math.ohio-state.edu/~kao/biomath_865_2011.htm

Grading: homework (60%), written and oral presentation (Tuesday Jun 7, 9:30am-11:18am, 40%) and. The letter grade will be with an approximately 90(A)-80(B)-70(C)-60(D) scale.

Homework: The HWs will consist of two parts. Computational HWs assigned every Friday will be due the following Friday. Theoretical HWs assigned every Monday and Wednesday will be due the following Wednesday. No late HW will be accepted. Source codes for numerical HWs need to be also submitted electronically to kao@math.ohio-state.edu. They will be checked randomly whether the source codes do provide the solutions you handed in. The title for the e-mail need to be "865LHW#-your name".

Oral Presentation: The oral presentation will held on Tuesday, Jun 7, 9:30am-11:18am.

*Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific needs. Please contact the Office for Disability Services at 614-292-3307 in room 150 Pomerene Hall to coordinate reasonable accommodations for students with documented disabilities. <http://www.ods.ohio-state.edu>

*It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee. For additional information, see the Code of Student Conduct http://studentaffairs.osu.edu/resource_csc.asp.