Course Title: Biomathematics Seminar

Course Credit: 1 s.h. (may be repeated once for credit)

Text: Seminar, lecture notes and selected primary literature.

Course Prereq: MATH 1571 or BIOL 2601 or BIOL 2602 or equivalent.

Course Description: Introduction to interdisciplinary studies in mathematics and biology. Attendance and participation in discussions at weekly class meetings. Course sessions will primarily consist of faculty presentations of concepts and case studies, presentations by visiting scientists, student presentations followed by critique and colloquium discussions with critical analysis.

Course Objectives: Upon successfully completing the course, the student will be able to:
1. Discuss current topics in mathematical biology with in-depth exposure to selected topics.
2. Communicate effectively across the disciplines of biology and mathematics.
3. Read and comprehend interdisciplinary materials.
4. Make appropriate computations given certain types of biological data; descriptive statistics, curve fitting and regression analysis. Use scientific software (Excel, SPSS, and others).
5. Critically analyze biological data and identify potential sources of error.
6. Propose a research project that involves both biology and mathematics.

Grading: Grade will be based on attendance, demonstration of student’s ability to communicate across disciplines, student presentations and written reports (literature-based or project based) and classroom participation. A grading and attendance policy will be distributed by the instructor(s).

Students with Disabilities: In accordance with University procedure, if you have a documented disability and require accommodations to obtain equal access in this course, please contact the Office of Equal Opportunity and Disability Services at the beginning of the semester or when given an assignment for which an accommodation is required. Students with disabilities must verify their eligibility through the Office of Disability Service, 36 W. Wood Street, ((330) 941-1372) intake procedure.

Cancelled Class Policy: Notice that this class is being cancelled for any one day because of instructor illness, or other reasons will be sent to the student address <…@student.ysu.edu> as soon as possible.

Semester: Spring 2010

Last Day to Withdraw with a “W”: Thursday, March 25, 2010
Need help? Stop in the Mathematics Assistance Center, Cushwa Hall, Room 3090, to inquire about the free services available for this course.

**Mathematics Assistance Center (MAC):** For all your mathematics needs:
- Tutoring
- Solutions Manuals
- Computers
- Study Area

**Mathematics Assistance Center**
Location: Cushwa Hall  Room 3090
Website: [http://www.math.ysu.edu](http://www.math.ysu.edu) (under “Student Services”)
E-mail: mathassist@math.ysu.edu
Phone: 330-941-3274
Hours: Fall/Spring: Monday – Thursday: 9:00 a.m. – 5:00 p.m.
  Friday: 9:00 a.m. – 3:00 p.m.

**Check for services available for your course.**