

STUDENT SYLLABUS

MAP2480 BioCalculusLab

Fall 17

WEB PAGE: <http://www.math.fsu.edu/~bellenot/class/fl17/biolab>

Section 1 W 2:30-4:15 107 MCH

Instructor: Daniel Galvis

Course Coordinator: Dr Steven Bellenot 644-7405

All offices hours are posted on the web site

Email(@math.fsu.edu): bellenot, dgalvis

ELIGIBILITY: Calculus I, MAC 2311 is a **PREREQUISITE** you must have a grade of C- or better in MAC 2311.

TEXT: There is no text to purchase (but you will need access to a Calculus textbook and a Precalculus textbook). There is no software to purchase (but you will need to download and install Scilab on your home computer). All biolab lessons are in on-line pdf files.

SOFTWARE: Scilab will be used in this course. Scilab is installed in 107 MCH and the following University Public Computer Lab: Oglesby Union (202 OGC) and the Virtual Compter Lab (myFSUVLab). Lab hours are on-line at <http://its.fsu.edu>. We will also require you to download and install the free Scilab on your computer.

COURSE OBJECTIVES: This course is designed to introduce students to topics in computational and mathematical biology. Problems in biology, medicine and physiology are used to illustrate how computation and mathematics can improve and enhance their understanding. The purpose of the course is

- to improve the students's use of technology and computers
- to introduce students to topics in computational and mathematical biology
- to use techniques from Calculus 1 to analyze and solve problems in biology
- to introduce students to Scilab and similar software

CALCULATORS: No Calculators are allowed in 107 MCH.

ATTENDANCE: Attendance and class participation will be factors in determining the final grade. No food or drinks are allowed in the classroom. Please turn off cell phones and keep them hidden during class.

COMMUNICATION: It is your responsibility to register for a (free) FSU computer account so that I can send you email, which you are expected to check regularly. If you prefer to read your email elsewhere then you can arrange to have messages forwarded, but you must still obtain an FSU account in the first instance. This class does not use Blackboard.

HONOR CODE: Do your own work. Do not e-mail or share code electronically with others. Do not share the algorithm for question one of part a nor the answer to question one of part b with other students.

GRADING: There is an on-line schedule of due dates using google calendar. There will be no tests and no final but there will be quizzes. At 6pm the day before each lab, there will be an on-line prelab assignment due. The prelab (best of at most 5 attempts) is worth 25% of your grade; the postlab (the larger of the first attempt or 0.85 of the second attempt) is worth 25% of your grade. All quiz scores will be included in the postlab score. The bulk of your grade (40%) comes from in-lab problems that can only be done in 107 MCH. **The score on a lab is reduced by 15% if you do not pass the prelab. You need a score of at least 70% on a prelab to pass it.** Lab's are divided into an a part 80% and a b part 20%. The final 10% is based on attendance and participation. Some participation will require turning hard copy typed reports. (You must staple multiple page projects. Both dog-eared paper and paper clips will earn a grade

of zero.) The 90%, 80%, 70%, 60% scales are used for A, B, C, and D; plus and minus grades may be given. (For example, a 92.5% grade might be an A minus.)

LATE WORK POLICY: Generally late work is not accepted. There are **NO MAKE UP LAB TIMES**. The prelabs/postlabs are available on-line, even if you are out of town. Every where is close to the internet.

OPTIONAL WORK: Students may use the score of an optional lab, a hardcopy lab which is more difficult than any other labs to replace a lower lab score. (The optional lab can only replace 85% of the last regular lab.) Students may replace their lowest prelab score with the score on an optional paper quiz usually given on Friday, the last day of classes. There is no make-up postlab, but the lowest postlab grade is dropped.

COMPUTER ASSISTED INSTRUCTION: All prelab assignments are on-line by the time listed in the calendar afternoon and are due by the time listed in the calendar; every effort will be made to ensure these problems are always available this time period. However, the deadlines will not be changed, even if networks problems occur and the problems are not available. You get five attempts at the prelab, make sure you get at least one attempt before the due date. **(Unexpected events happen, but there are never any extensions.)** All computer labs must be done in room 107 MCH usually during the lab. Each lab is only available for one lab day. Students are expected to finish the lab during class time.

REQUIRED STATEMENTS: <http://facsenate.fsu.edu/Curriculum/Syllabus-Language>

University Attendance Policy: Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

Academic Honor Policy: The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "... be honest and truthful and ... [to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <http://dof.fsu.edu/honorpolicy.htm>.)

Americans With Disabilities Act: Students with disabilities needing academic accommodation should:

- (1) register with and provide documentation to the Student Disability Resource Center; and
- (2) bring a letter to the instructor indicating the need for accommodation and what type.

Please note that instructors are not allowed to provide classroom accommodation to a student until appropriate verification from the Student Disability Resource Center has been provided.

This syllabus and other class materials are available in alternative format upon request.

For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center, 108 Student Services Building

874 Traditions Way, Florida State University

Tallahassee, FL 32306-4167

(850) 644-9566 (voice), (850) 644-8504 (TDD)

sdrc@admin.fsu.edu, <http://www.disabilitycenter.fsu.edu/>

Free Tutoring from FSU <http://ace.fsu.edu/tutoring>

Syllabus Change Policy "Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice."