

STUDENT SYLLABUS

MAS 4106-01

Fall 16

WEB PAGE: <http://www.math.fsu.edu/~bellenot/class/fl16/la2>

MEETING TIMES: TR 12:30-1:45 201 LOV

INSTRUCTOR Dr Steven Bellenot

OFFICE 223 Love

OFFICE HOURS MW 2-3 or by appointment. Often available after class.

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WEB <http://www.math.fsu.edu/~bellenot>

OFFICE PHONE 644-7405

ELIGIBILITY: Both MAS3105 (App. Lin. Alg 1) and MAC2313 (Calculus 3) with C- or better. This is 4000 level course so students are expect to have some mathematical maturity as well as the course pre-requisites.

TEXT: David C. Lay *Linear Algebra and Its Applications* 5th Edition (Same as MAS3105).

COURSE CONTENT: The bulletin lists the content as: *Positive definite matrices, matrix computation, linear programming and game theory. Applications.*

COURSE OBJECTIVES. The purpose of this course is to increase the students ability to use linear algebra in both theoretical and applied contexts. In particular, the student should gain a deeper understanding of the role of eigenvectors, eigenvalues, orthogonality and symmetry in applications ranging from calculus to game theory. The student will also be introduced to the role of linear algebra in optimization problems, via convex sets, extreme points and linear programming.

CALCULATOR: No calculators or other electronic devices are allowed on the exam or quizzes.

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.

GRADING/EXAMS: Grades are based on the easy going 85% A, 75% B, 65% C, 55% D system. Plus/minus letter grades may be assigned (so a 67.5% could be a C-). A grade of I will not be given to avoid a grade of F nor to give additional study time. There will be 3 tests (15% of the grade each) and 3 or 4 computer projects (15% of the grade) and a final (30% of the grade). There will also be homeworks for the last 10% of your grade. All projects, test and hw due dates are on-line in a google calendar. The dates are tentative. The Final is Thursday 15 December 3:00 pm - 5:00 pm

EXAM POLICY: No makeup tests or quizzes will be given. Late or unstapled assignments will not be normally be accepted. A missed test may be excused if the student presents sufficient verifiable evidence of extenuation circumstances. An unexcused absence from a test will be penalized. If a test absence is excused, then either the final will used in its place, or at the instructors discretion, an oral make-up test might be given. At most one excused quiz scores will be replaced by the next test score appropriately scaled. An unexcused missed assignment will result in a grade of zero. Absences from tests or missing assignments due to family social events will not be excused. Acceptable medical excuses must state explicitly that the student should be excused from class. Students must bring FSU ID cards to all tests.

HOMEWORK: The list of homework problems is the class web site. Email will be sent to the class it this list is ever updated. Some class days students will present problems and on others the homework will be collected. Most students will find that the amount of assigned homework is too small to provide enough practice to become proficient in the material. Please do additional problems as needed.

HOMEWORK RULES: Your **OWN** work, written in clear English. Neatly typed or written in ink on one side of standard 8.5 by 11 paper. Multiple pages must be stapled and **NOT** dog-eared or paper clipped. **Homework with a paper clip or with dog-eared pages will receive a zero score.** Discussion about the homework problems with other students or the professor is permissible and even encouraged, but the final output needs to be uniquely yours and not obtained by copying from another's solution.

HELP: There is wealth of information on our web pages, be sure to check them before emailing me. (If the answer is on our web pages, I will not give the answer by email.) Sorry, I will only compute your grade once at the end of the semester; but all grades are on-line and you can compute your own grade at any time. Do not hesitate to come to my office hours, or to contact me via email. (Please – no html formatted email, send text only. For files with graphics, I will look at PDF files but not word .doc files) All projects must be turned in in hard copy.

PROJECT FORMAT: The hardcopy needs to be your **OWN** work, written in clear English. Neatly typed or written in ink on one side of standard 8.5 by 11 paper. Multiple pages must be stapled and **NOT** dog-eared or paper clipped. **Labs with a paper clip or with dog-eared pages will receive a zero score.** You are expected to edit scilab output. There should be no false starts, nor unneeded output. Discussion about the lab or homework problems with other students or the professor is permissible and even encouraged, but the final output needs to be uniquely yours and not obtained by copying from another's solution. All labs must be submitted in hardcopy. No electronic copies will be accepted. (But if you are having problems with graphics, I will look at a PDF file.)

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. This should be done during the first week of class.

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

874 Traditions Way

108 Student Services Building

Florida State University

Tallahassee, FL 32306-4167

(850) 644-9566 (voice)

(850) 644-8504 (TDD)

sdrc@admin.fsu.edu

<http://www.disabilitycenter.fsu.edu/>

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."