

STUDENT SYLLABUS

MAS 4106–01 Applied Linear Algebra II

Spring 06

WEB PAGE: <http://www.math.fsu.edu/~bellenot/class/s06/la2>

MEETING TIMES: MWF 2:30-3:20 102 LOV

INSTRUCTOR Dr Steven Bellenot

OFFICE 223 Love

OFFICE HOURS TBA or by appointment — some weeks MWF 1:30 others MW 3:30

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ELIGIBILITY. Both MAS3105 (App. Lin. Alg 1) and MAC2313 (Calculus 3) with C- or better.

TEXT. David C. Lay *Linear Algebra and Its Applications* 3rd Edition (Update version preferred)

COURSE CONTENT. All or parts of Chapters 4-9 of the text, and additional material as time allows. 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.

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.

GRADING. Grading is based on the easy going 85% A, 75% B, 65% C, 55% D system. There will be a final (worth 30% of final grade), 2 tests (each worth 20% of the final grade) and several quizzes (worth a total of 15% of the final grade). The last 15% of your grade will be based on homework.

Test Dates: Feb 24, Mar 31

Final Date: Thursday 27 April 12:30-2:30pm

EXAM POLICY. No makeup tests or quizzes will be given. A missed test or quiz may be excused if the student presents sufficient evidence of acceptable extenuating circumstances. The grade on the final will be used for a missing test grade. The next test grade will be used for a missing quiz grade. Students must bring FSU ID cards to all quizzes and tests.

HOMEWORK. The remaining 15% of your grade will be determined by homework. The list of homework problems will be maintained on the class web site. Email will be sent to the class whenever the list is updated. Some class days students will present problems and on others the homework will be collected. Most problems will not be graded directly. Please neatly organize your completed assignments into a notebook. Late homework is not accepted.

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. 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.

There is more on the other side

HONOR CODE. The Academic Honor System of The Florida State University is based on the premise that each student has the responsibility 1) to uphold the highest standards of academic integrity in the student's own work, 2) to refuse to tolerate violations of academic integrity in the University community, and 3) to foster a high sense of integrity and social responsibility on the part of the University community. Please note that violations of this Academic Honor System will not be tolerated in this class. Specifically, incidents of plagiarism of any type or referring to any unauthorized material during examinations will be rigorously pursued by this instructor. Before submitting any work for this class, please read the "Academic Honor System" in its entirety (as found in the [FSU General Bulletin](#) and in the [FSU Student Handbook](#) (see URL below)) and ask the instructor to clarify any of its expectations that you do not understand.

<http://www.fsu.edu/Books/Student-Handbook/codes/honor.html>

AMERICAN DISABILITIES ACT. Students with disabilities needing academic accommodations should: 1) register with and provide documentation to the Student Disability Resource Center (SDRC); 2) bring a letter to the instructor from SDRC indicating you need academic accommodations. This should be done within the first week of class.

<http://www.fsu.edu/%7Estaffair/dean/StudentDisability/>