

# SYLLABUS

## MATH 250 - Section B

9:30 - 10:50 M,W (Michelangelo)

**Instructor:** Dr. Michael Aristidou  
**Office Hours:** 11:00-12:00 T,Th

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**Textbook:** *Linear Algebra*, by L. Smith, 3th Ed, Springer 1998.

Other sources: (1) *Elementary Linear Algebra*, by H. Anton and C. Rorres, 9th Ed, Wiley 2005.  
(2) *Linear Algebra (Shaum, 's Series)*, by H. Anton and S. Lipschutz and M. Lipson, 3th Ed, McGraw Hill 2005.

**Course Overview:** The purpose of this course is to present the mathematical foundations of linear algebra. It extends, and describes, in more detail many of the topics covered in MAT 140. The more substantial part of the course include Vector Spaces, Bases, and Linear Transformations. Further topics include Change of Basis, Eigenvalues and Eigenvectors, Inner Product Spaces, and Orthogonality. Applications may include topics from Game Theory, Fractals, Chaos, and Cryptography.

**Course Outline:** Sections from the following chapters will be covered:  
Ch.1-Ch.12, Ch.14, Ch.15.

**Grading:** 4 Tests (40%)  
2 Homeworks (take-home) (20%)  
1 Midterm Exam (20%)  
1 Final Exam (20%)  
(**NO** test scores will be dropped)

**Grading Scale:** A = 85-100%, B = 75-85%, C = 65-75%, D = 50-65%, F = 0-50%

**Project:** There are a few projects available for students of this course. Most of them come out of the Anton's book and are related to the concepts taught (some require the use of computers). The student can choose the project of his/her preference, always in cooperation with the instructor. Nevertheless, not all students are eligible for these projects. Only students that score high on their tests, especially the Midterm, are eligible. A project like that will waive the Final Exam, and it will have the same grade weight as the Final (20%). A project could also be submitted before the corresponding Final Exam date.

**Test Make-up Policy:** Speak to me **BEFORE** the test or leave a telephone, or an e-mail, message. If you are not able to contact me before the test, contact me within the **NEXT** couple of days. Documentation to verify the reason you missed the test is required. Only one make-up test will be allowed for the semester and that if there are extremely special circumstances.

**Class Policy:** All cell phones, pagers, laptops, etc. must be turned off during class. No food or drinks are allowed in class. Only pencil is to be used on tests. All tests must be your work. Dishonesty is a violation of the code of student conduct and it will not be tolerated.

**Important Dates:**

1- 4 March: Midterm, 24-28 April: Final