

Syllabus

Matrix Theory (MAS 2103) 3 credits

Prerequisite: Minimum Grade of C in MAC 2233, MAC 2311, MAC 2253 or MAC 2281

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| Instructor: | CRN: |
| Office: | Office Hours: |
| E-mail Address: | Phone number: |
| Lecture Time: | Lecture Room: |
| Scheduled Lab SE350 Time: | |
| Teaching Asst: | Office Hours: |
| Office: | Email Address: |

Description: Matrix Theory is the entry point to Linear Algebra. Topics covered include vectors and vector spaces, linear transformation and matrices, rank and determinants, systems of linear equations, diagonalization, and eigenvalues.

Objectives: Upon successful completion of this course, the student will be able to:

1. Work with matrices;
2. Solve systems of linear equations;
3. Understand vector spaces;
4. Know the value of determinants.

Software: No software required.

Materials: Text: [Elementary Linear Algebra](#), 10th edition, Howard Anton and Chris Rorres, John Wiley & Sons, 2010.

Website: Blackboard (BB) <http://blackboard.fau.edu> (sign in as to MyFau)

Attendance Policy: If a class is missed, it is the student's responsibility to obtain from another student any announcements, lecture notes, handouts, and /or assignment changes. Exams will be returned usually the next class period. Out of respect for the classroom environment, please do not arrive late or leave early. Ensure cell phones and pagers are OFF. Do not use the computers in the rooms unless authorized by the instructor for work in class, quizzes, etc. Students with disabilities should contact OSD for advice.

Tutoring: Tutoring is available in PS 112. Please see the schedule at <http://www.math.fau.edu/MLC> for tutors and hours of operation.

Course Grade: Grading is based on a homework notebook, four exams, as well as a comprehensive final.

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| Homework | 10% |
| Quiz Average | 20% |
| Exam Average | 40% |
| Final Exam | 30% |

Grading Scale: The grading scale will be based on the following:

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|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| Percent: | [90,100] | [88,90) | [86,88) | [80,86) | [77,80) | [73,77) | [65,73) | [63,65) | [60,63) | [50,60) | [48,50) | [0,48) |
| Grade: | A | A- | B+ | B | B- | C+ | C | C- | D+ | D | D- | F |

Exams: There will be two term exams worth 20% each. Students are only allowed a number 2 pencil, eraser, scientific calculator, and valid picture ID during a testing session. DO NOT BRING CELL PHONES, BOOKS, BOOK BAGS, NOTES, OR ANY OTHER ITEMS TO THE EXAM ROOM! *Entrance to the exam requires a valid picture identification card:* Only FAU Owl Cards, U.S. Passports, or Florida Driver's Licenses will be accepted!

Comprehensive Final Exam: The final exam is cumulative and will be worth 30% of the grade. Date for the Final Exam is prescribed by the administration. Please check the FAU web site. *You must take the final exam to receive a passing grade!*

Makeup Exams: Makeup exams will be given only under exceptional circumstances. *If you miss an exam, you must provide a written, verifiable excuse, if possible in advance of the scheduled exam.* Approval for a makeup exam must be obtained from your instructor.

Classroom Etiquette : Please refer to the FAU Code of Conduct available at http://www.fau.edu/regulations/chapter4/4.007_Student_Code_of_Conduct.pdf.

Academic Honesty: Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001 at http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf

Students With Disabilities: In compliance with the Americans with Disabilities Act (ADA), students who require special accommodation due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) and follow all OSD procedures. In Boca Raton, SU 133 (561-297-3880); in Davie, MOD 1 (954-236-1222); in Jupiter, SR 117 (561-799-8585); or at the Treasure Coast, CO 128 (772-873-3305). OSD website at <http://www.osd.fau.edu>.

Included course topics are subject to reasonable changes at the discretion of the instructor.