

Syllabus

MAC 3105: Matrix Linear Algebra, Fall 2005

TIME and ROOM: MTWF 2:30-3:20 pm, MAP 406

Professor: Dr. Warren Y. W. Qi **Office:** MAP 127

Telephone No: 823-2810 **Email:** yqi@pegsus.cc.ucf.edu

OFFICE HOURS: MW 5:20 pm–6:50 pm, T 5:20-7:20 pm or by appointment

TEXT: *Elementary Linear Algebra and Matrices* by Richard M. Caron and Frank L. Salzman

EXAMS: **3 Tests,** **1 Final** & Unannounced quizzes.

Testing Dates: Test 1, **Sep 16**; Test 2, **Oct 10**; Test 3, **Nov 4**; Final, TBA

GRADING POLICY: Each test 20 %, Final 30 %, Attendance 5 %, Quizzes 5 %.

Grading Scale: A: 90-100 %, B: 80-89 % C: 70-79 % F: 0-69 %

ATTENDANCE: We check attendance every time. Absence from class: 1st -1 %, next two -2 % each. We do not give any exceptions.

HOMEWORK: Homework will be assigned at each class meeting. The student is expected to attempt every problem before coming to class.

PREREQUISITE: MAC2312 or C.I.

Academic Honesty: Academic dishonesty is strictly forbidden and disciplinary action in accordance with University policy will be taken in response to such behavior. Please see UCF's Golden Rule Handbook or <http://www.ucf.edu/goldenrule/> for more information.

Makeup Policy: In case of documented absence due to religious holidays, family emergencies, illness or official university functions, the university policy for make-up tests, quizzes will be followed. Any other make-up is at the the discretion of the instructor.

In addition:

1. MathLab, MAP 113 is open M-R: 0900-1900, F: 0900-1500, Sunday: 1400-1800.
2. Add/Drop period is Aug 22-26
3. Deadline for withdraw is October 14
4. University holidays are: September 5(Labor Day), November 11 (Veteran's Day) and November 24 - 26 (Thanksgiving)
5. Students need disabilities accommodations must contact professor at the beginning of the course. No accommodation will be provided until the student meet with the professor to request accommodations. Students who need accommodations must be registered with Student Disability Services, Student Resources Center Room 132, phone: (407)-823-2371, TTY/TDD only phone: (407)-823-2116, before requesting accommodations from the professor.

Core Topics: Vectors and vectors spaces, linear combinations of vectors, subspace, spans, linear transformations, matrix arithmetic, Gaussian elimination, rank of a matrix, inverse of a matrix, determinants, linear independence and bases, null space, systems of linear equations, eigenvalues and eigenvectors, diagonalization, Jordan canonical form.

- Remarks:** 1) This is a **tough course**, hence please **Work Hard**.
2) Please bring your photo ID to all exams.