ENGINEERING ANALYSIS
AME 525

Class Number: Section 28885R (On Campus)
Section 29055D (Off Campus)
Number of Units: 3 semester units
Hour/Day: TuTh 5:00 – 6:20 p.m.
Room: Section 28885R (On Campus): OHE 122
Section 29055D (Off Campus)
Instructor: Dr. M. O. Safadi – Tel. On Campus: (213) 740 – 0494
(OLIN HALL 430L) – Fax: (213) 740 – 8071 – E-mail: safadi@usc.edu
Office Hours: Monday: 3:45 – 5:45 p.m.
Wednesday: 3:45 – 5:45 p.m.
Students are also welcome to stop by my office at other times.

Course Outline

1) Vectors and Vector Spaces (Chapter 6)
2) Matrices and Linear Systems (Chapter 7)
3) Determinants (Chapter 8)
4) Eigenvalues, Diagonalization, and Special Matrices (Chapter 9)
5) Systems of Linear Differential Equations (Chapter 10)
6) Vector Differential Calculus (Chapter 11)
7) Vector Integral Calculus (Chapter 12)
8) Complex Numbers and Functions (Chapter 19)
9) Complex Integration (Chapter 20)
10) Series Representations of Functions (Chapter 21)
11) Singularities and Residue Theorem (Chapter 22)
Course Grading:

Two midterm exams 25% each: 50%
One comprehensive final examination: 30%
Homework Assignments: 20%

Tentative dates for the two midterm exams:

Midterm Exam I: Thursday February 18, 2016
Midterm Exam II: Thursday March 31, 2016

The comprehensive final examination will be tentatively given on Thursday May 5, 2016 from 4:30 until 6:30 p.m.

Statement on Academic Conduct and Support Systems

Academic Conduct

Plagiarism - presenting someone else's ideas as your own, either verbatim or recast in your own words - is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Section 11, Behavior Violating University Standards https://scampus.usc.edu/1100-behavior-violating-university-standards-and-appropriate-sanctions. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, http://policy.usc.edu/scientific-misconduct.

Discrimination, sexual assault, and harassment are not tolerated by the university. You are encouraged to report any incidents to the Office of Equity and Diversity http://equity.usc.edu/ or to the Department of Public Safety http://capsnet.usc.edu/department/department-public-safety/online-forms/contact-us. This is important for the safety of the whole USC community. Another member of the university community - such as a friend, classmate, advisor, or faculty member - can help initiate the report, or can initiate the report on behalf of another person. The Center for Women and Men http://www.usc.edu/student-affairs/cwm provides 24/7 confidential support, and the sexual assault resource center webpage http://sarc.usc.edu/ describes reporting options and other resources.

Support Systems

A number of USC's schools provide support for students who need help with scholarly writing. Check with your advisor or program staff to find out more. Students whose primary language is not English should check with the American Language Institute http://dornsife.usc.edu/ali, which sponsors courses and workshops specifically for international graduate students. The Office of Disability Services and Programs http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html provides certification for students with disabilities and helps arrange the relevant accommodations. If an officially declared emergency makes travel to campus infeasible, USC Emergency Information http://emergency.usc.edu will provide safety and other updates, including ways in which instruction will be continued by means of blackboard, teleconferencing, and other technology.