

**Department of Civil Engineering
University of Texas Arlington**

**CE 2152- Computer Tools- MathCAD
Summer 2015**

Instructor: Raad Azzawi, Ph.D.
Office: 235 Nedderman Hall

Office Hours: MW 09:30 am – 1:00 pm
(Questions via email or by appointment)
Lab: MW: 8:00 am - 09:20 am NH 239

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Description of Course Content:

Introduction to computer aided mathematics, using Mathcad. Solution of engineering problems involving systems of simultaneous linear and nonlinear equations and elementary calculus, use of the tools for visualization.

Requisites: Grade of C or better in PHYS 1443.

Student Outcomes Addressed:

- (a) an ability to apply knowledge of mathematics, science, and engineering (covered implicitly)
- (k) an ability to use the techniques, skills and modern engineering tools necessary for engineering practice (tested implicitly)

Policies: Normally, the class will be conducted in accordance with the policies given below. However, it is impossible to anticipate every possible circumstance. The instructor reserves the right to modify the given policies or to deviate from them in unforeseen or unusual circumstances. If there is a policy that you anticipate will affect you in a way that seems unfair, please bring it to the attention of the instructor before the end of the second week of class. After that, the reason for a student initiated change in policy must be compelling.

Attendance Policy: Regular and punctual attendance is expected of students enrolled in this class. Absences and tardiness may affect a student's grade. The student is responsible for determining what was covered during missed classes.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. For Engineering students, added classes must be on the list approved by the academic advisor. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session rules. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. Contact the Financial Aid Office for more information.

Assignments: Assignments will be given in lab sections. Unless a different specific due date is given in class or on the class website, lab assignments are due at the beginning of the following lab class.

Lab assignments are obtained and submitted electronically. Directions for obtaining and submitting the assignments are provided in a separate document. Obtaining an assignment in any other manner is considered academic misconduct and, when discovered, will be dealt with as such.

Major Assignments and Examinations: This class has no major assignments. There will be one lab examination. The dates of the examinations are given below and on the class website.

There is always a small chance that a midterm examination will be rescheduled. Notice of such a change will be provided as soon as possible.

Midterm Exam	July 20 th , 2015 (8:00am-9:20am) NH239
Final Exam	August 17 th , 2015 (8:00am-10:00am) NH239

Make-up Examinations: Makeup lecture examinations are not given unless required by UTA policy. For university authorized absences, the student is required to follow the university policy as described at:

http://web.uta.edu/catalog/content/general/academic_regulations.aspx#9. If an examination is missed as a result of an illness, the following policy applies. It is the responsibility of the student to provide acceptable, written documentation from a recognized medical professional stating that the health of the student or his classmates would have been jeopardized by the student's attendance at the examination. The documentation must be presented within one week of the student's return to class. For excused absences, unless a makeup examination is required by university policy, the score on the relevant portion of the final exam will be used to replace the first missed lecture exam. If arrangements are made well in advance, a lecture examination can usually be taken before the scheduled time and a more lenient excuse policy is applied.

Grading Policy:

	Weight		Average	Grade
Assignments	20%		$90 \leq T \leq 100$	A
Midterm Exam	40%		$80 \leq T < 90$	B
Final Exam	40%		$70 \leq T < 80$	C
			$60 \leq T < 70$	D
Total	100%		$0 \leq T < 60$	F

A numerical average and a letter grades will be computed for each of the components of the course using the data in the tables above.

Academic Integrity: It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University. According to the UT System Regents' Rule 50101, §2.2, "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts."

The College of Engineering has a "Statement on Ethics, Professionalism, and Conduct for Engineering Students" which may be viewed at <http://www.uta.edu/engineering/current-students/academic-honesty.php>. Each student is responsible for understanding and acting in accordance with this document.

Grade Grievances: The university policy regarding "Student Grievance Procedures Related to Grades" is explained in:

http://web.uta.edu/catalog/content/general/academic_regulations.aspx#18

Electronic Communication Policy: The University of Texas at Arlington has adopted the University "MavMail" address as the sole official means of communication with students. MavMail is used to remind students of important deadlines, advertise events and activities, and permit the University to conduct official transactions exclusively by electronic means. For example, important

information concerning registration, financial aid, payment of bills, and graduation are now sent to students through the MavMail system. All students are assigned a MavMail account. **Students are responsible for checking their MavMail regularly.** Information about activating and using MavMail is available at <http://www.uta.edu/oit/email/>. There is no additional charge to students for using this account, and it remains active even after they graduate from UT Arlington.

In addition, the class has an internet website – <http://ce1352.utace.net>. The website includes the class schedule, assignments, hints for homework assignments, an examination archive, and other resources. Students are free to make printed copies of many of the documents available on the class website. **However students should not create, or acquire, in any other manner, printed solutions of class assignments. Possession of printed solutions to CE 1352 class plates, from any source, will be considered Cheating under the Scholastic Dishonesty Policy:**

http://wwwb.uta.edu/catalog/content/general/academic_regulations.aspx#34.

Student Support Services Available: The University of Texas at Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. These resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals to resources for any reason, students may contact the Maverick Resource Hotline at 917-272-6107 or visit www.uta.edu/resources for more information.

Librarian to Contact: Sylvia George-Williams, 817-272-7519, sylvia@uta.edu.

Americans With Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the Americans with Disabilities Act (ADA). All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as "lecture," "seminar," or "laboratory" shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.