MAE 3242.001

Spring 2018

Instructor(s): Mr. Paul Park

Office Number: WH 323H

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Office Hours: Monday and Wednesday 2:30-3:45 PM

Section Information: MAE 3242.001 Mechanical Design I

Time and Place of Class Meetings: M/W 4-4:50 PM Science Hall 103

Description of Course Content: First part of a two-semester Machine Component Design Course. This part covers the fundamentals used in designing the structure of commonly-used mechanical components.

Student Learning Outcomes: By the end of this course students will have:

- Been introduced to the design process
- Reviewed mechanics of materials theories and their applications to mechanical design
- Learned failure theories for mechanical materials and part designs
- Been introduced to safety factors for different materials and structural load conditions

Required Textbooks and Other Course Materials:

- Machine Design an Integrated approach (5th ed.): Robert L. Norton; Prentice Hall
- Handouts provided by instructor posted on Blackboard

The text book will be used as reference, and for reading and homework assignments.

Descriptions of major assignments and examinations:

- Portions of All Homework Will Be Graded
- Final Exam Will Be Comprehensive
- All Quizzes and Exams Will Be Open Book (Portable Electronic Devices in Airplane Mode)
- Homework assignments will include Key Assignment Problems which will be graded separately from other homework.

Attendance: Students are expected to attend every class, arrive on time and to stay in the class until they are dismissed, with the exception of a verifiable emergency or an incident beyond the student's control.

Other Requirements: MAE 2312, MAE 2323, and MAE 3324

- **Grading**: Grading
 - Mid Terms 15% each
 - o Final 30%
 - Quizzes 15%
 - Homework 15%
 - Key Assignment Problems -10%
 - Late homework accepted up to one class late with 50% grade penalty;

Lowest-grade homework (not including Key Assignment Homework) and lowest-grade quiz not included in course grade assessment. Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels; see "Student Support Services," below.

Make-up Exams: UTA regulations permitting, missed midterms and/or final exams can only be rescheduled when missed due to major health problems or circumstances beyond the student's control. With instructor's discretion, students will be required to reschedule the missed exams at the earliest time possible.

Expectations for Out-of-Class Study: Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional <u>6</u> hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc.

Schedule

Date	Activity	Chapter	Grading	Date	Activity	Chapter	Grading
22-Aug	H1	1		22-Oct		4	
27-Aug		1&2		24-Oct	Н8	5	H7 in, H6 back
29-Aug	Quiz 1	2		29-Oct	Quiz 4	5	
3-Sep	No Class			31-Oct	H9	*Review	H8 in, H7 back
5-Sep	H2	3	H1 in	5-Nov			H8 back
10-Sep		3		5-7 Nov	Exam 2		
12-Sep	Н3	4	H2 in, H1 back	7-Nov		5	
17-Sep	Quiz 2	4		12-Nov	H10	6	H9 in
19-Sep	H4	4	H3 in, H2 back	14-Nov	Quiz 5	6	Exam 2 back
24-Sep		4		19-Nov			
26-Sep	H5	4	H4 in, H3 back	21-Nov	No Class	6	
1-Oct	Exam 1	Chap 1-4		26-Nov	H11	6	H10 in
3-Oct		4	H4 back	28-Nov			
8-Oct		4	Exam 1 back	3-Dec	Quiz 6	Review*	H11 in, H10 back
10-Oct	Н6	4	H5 in	11-Dec			H11 available from TA
					Final		
15-Oct	Quiz 3	4		12-Dec	2-4:30	Comprehensive	
17-Oct	H7	4	H6 in, H5 back				
H - Homework assigned, due as noted					2 Novemb	per - Last o	day to drop class
* If Time A	f If Time Allows						

Grade Grievances: Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog.

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. 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. 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. For more information, contact the Office of Financial Aid and Scholarships (http://wweb.uta.edu/aao/fao/).

Disability Accommodations: UT 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)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. 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 disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the Office for Students with Disabilities (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability.

<u>Counseling and Psychological Services, (CAPS)</u> <u>www.uta.edu/caps/</u> or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

Non-Discrimination Policy: The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos.

Title IX Policy: The University of Texas at Arlington ("University") is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. *For information regarding Title IX, visit* www.uta.edu/titleIX or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code in their courses by having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University. Additional information is available at https://www.uta.edu/conduct/.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at http://www.uta.edu/oit/cs/email/mavmail.php.

Campus Carry: Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit http://www.uta.edu/news/info/campus-carry/

Student Feedback Survey: At the end of each term, students enrolled in face-to-face and online classes categorized as "lecture," "seminar," or "laboratory" are 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 via the SFS database is aggregated with that of other students enrolled in the course. Students' anonymity will be protected to the extent that the law allows. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law and aggregate results are posted online. Data from SFS is also used for faculty and program evaluations. For more information, visit http://www.uta.edu/sfs.

Final Review Week: for semester-long courses, a period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

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 which is located to your left or right down the hall. 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 individuals with disabilities.

Student Support Services: UT 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. Resources include <u>tutoring</u>, <u>major-based learning centers</u>, developmental education, <u>advising and mentoring</u>, personal counseling, and <u>federally funded programs</u>. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to <u>resources@uta.edu</u>, or view the information at http://www.uta.edu/universitycollege/resources/index.php.

The IDEAS Center (2nd Floor of Central Library) offers **free** tutoring to all students with an emphasis on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. To schedule an appointment with a peer tutor or mentor email <u>IDEAS@uta.edu</u> or call (817) 272-6593. The Library's 2nd floor Academic Plaza offers students a central hub of support services, including IDEAS Center, University Advising Services, Transfer UTA and various college/school advising hours. Services are available during the library's hours of operation. http://library.uta.edu/academic-plaza

Emergency Phone Numbers: case of an on-campus emergency, call the UT Arlington Police Department at **817-272-3003** (non-campus phone), **2-3003** (campus phone). You may also dial 911. Non-emergency number 817-272-3381

Stop. Think. Protect Yourself. You Have Choices.

The safety and security of our campus is the responsibility of everyone in our community. Each of us has an obligation to be prepared to appropriately respond to threats to our campus, such as an active aggressor. This graphic provides each member of the UTA community with information and options for responding to an active threat. These options are not chronological, but are designed to address dynamic situations. Assess the situation (your location, the location of the threat, type of threat, etc.), identify and weigh your options, develop a plan of action and commit to it.

YC	OUR OPTIONS TO AN ACTIVE THREAT							
You Have Choices!								
A V O I D	 AVOID the situation. Stay away from the area and campus. If you can safely leave the area, RUN. Get others to leave the area, if possible. Prevent others from entering the area. Know your exit and escape options. If in a parking lot, get to your car and leave. If in an unaffected area, stay where you are. When you are safe, call UTA PD at 817. 272.3003 or 911 with information you have. 							
D E N Y	 If you can't leave the area safely, DENY or slow entry to the intruder: Lock/barricade doors with heavy items. Turn off lights/projectors/equipment. Close blinds and block windows. Stay away from doors and windows. Slence phones and remain quiet. Don't let your phone give you away. HIDE and take cover to protect yourself. Be prepared to run or defend yourself. 							
D E F E N D	 If you can't AVOID or DENY entry to the intruder, DEFEND your location: As a last resort, FIGHT for your life. Use physical force and any weapons available - fire extinguishers, books, chairs, belts, umbrellas, pens/scissors, hot coffee/drinks, trash cans, etc. Use the element of surprise. Work together as a team. Develop a plan. Commit to your actions. Your life depends on it. Be aggressive, loud, and determined in your actions. 							
	Follow ALL instructions.							
T	For more information, go to: police.uta.edu/activeshooter Emergency: 817.272.3003 Non-Emergency: 817.272.3381 police.uta.edu							

Additional information for active threat and other emergency situations can be found through the links below:

police.uta.edu/activeshooter
police.uta.edu/em