UNIVERSITY OF NORTH TEXAS SYLLABUS
MEEN 3130 MACHINE ELEMENTS     FALL 2018.  3 Credit hours

Instructor: Dr. Radek Glaser
Office Hours: Mondays: 1:00PM-4:00PM or by appointment only.
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Lecture: TR 10:00–11:20 PM, NTDP B185

Prerequisite(s): NOT be pre-engineering major and passed the following “C” or better:
1) MEEN (ENGR) 2332 Mechanics III, Stress Analysis (implies 2301 statics)
2) ENGR 1304: Engineering Graphics

Catalog Course Description: Applications of the principles of mechanics and mechanics of materials to machine design. The elements of machines are analyzed in terms of their dynamic behavior. Selection and sizing of machine elements. Students use the finite element technique for the analysis of machines and their counterparts.

Recommended Textbooks:
2) "Mechanical Engineering Design", 10th, Budynas & Shigley, McGraw Hill
3) "Mechanical Design of Machine Elements and Machines", 2nd, Collins, Wiley

ABET OUTCOMES: MEEN 3130 addresses several ABET program outcomes, including applying knowledge of mathematics, engineering and science as well as identifying, formulating and solving engineering problems. Upon successful course completion:
1) Learn process for machine design
2) Application of mechanics of materials into stable designs
3) Determine failure and deformation mode of a design
4) Apply principals of mechanics, materials, stress analysis, statics, and dynamics to machine sizing
5) Select appropriate dimensions and size of machine elements

Calculators: The only calculators that are approved for this course are those permitted on the Fundamentals of Engineering (FE) exam toward Professional Engineer (PE) licensing:
1) Hewlett Packard—HP 33s and HP 35s models, but no others.
2) Casio—All fx-115 and fx-991 models. Any Casio calculator must contain fx-115 or fx-991 in its model name.
3) Texas Instruments: All TI-30X and TI-36X models. Any TI calculator must contain either TI-30X or TI-36X in its model name
**GRADES:** Standard grading scale used: 90/80/70/60. Re-grade request must be made in class day is returned. No re-grade requests after class dismissed. Entire exam will be re-graded, which may result in lower score than originally assigned. Make-up NOT allowed only exception being University excused absences with documentation provided.

- **Homework** 10% due at beginning of every class
- **Quizzes** 30% in-class problem solving, given often on Thursday’s
- **Mid Term 1** 30% multiple choice / qualitative, 18 October
- **Mid Term 2** 30% multiple choice / qualitative, 6 December

**COMMUNICATING WITH INSTRUCTOR**

The primary method of communication during lecture time for design questions. Periodic instructor team conferences (meetings) are also scheduled in the MEE office. Personal questions or concerns should be addressed through office hours or individual appointments. Last resort is email or office phone. Response times to email and voice mail communication can be significant and should be avoided.

**ACCESS TO INFORMATION – EAGLE CONNECT**

Students' access point for business and academic services at UNT is located at: my.unt.edu. All official communication will be delivered to your Eagle Connect account. For more information, please visit website that explains Eagle Connect and how to forward e-mail: eagleconnect.unt.edu/. Blackboard is used to post syllabus, homework, lecture slides, grades, etc. Instructor can only communicate through CANVAS to your UNT eagle account.

**ACCEPTABLE STUDENT BEHAVIOR**

Student behavior that interferes with an instructor’s ability to conduct a class or other students’ opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student’s conduct violated the Code of Student Conduct. The University’s expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct can be found at deanofstudents.unt.edu/conduct.

**EMERGENCY NOTIFICATION & PROCEDURES**

Students’ access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student’s Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail: eagleconnect.unt.edu/
ACADEMIC INTEGRITY STANDARDS AND SANCTIONS FOR VIOLATIONS

Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University. Academic dishonesty will not be tolerated and will result in a score of zero on the assignment. The student will be reported to Office of Academic Integrity for appropriate disposition. No exceptions

ADA STATEMENT

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one’s specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the ODA website at disability.unt.edu

STUDENT PERCEPTIONS OF TEACHING EFFECTIVENESS (SPOT)

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the SPOT website at http://spot.unt.edu/ or email spot@unt.edu. SPOT evaluations performed in class during last couple weeks of semester.

RETENTION OF STUDENT RECORDS

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the CONVAS online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about
student’s records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University’s policy. See UNT Policy 10.10, Records Management and Retention for additional information.

**SEXUAL ASSAULT PREVENTION**

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence against Women Act) and UNT policies prohibit discrimination based on sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT’s Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim’s compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565-2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at oeo@unt.edu or at (940) 565 2759

**SYLLABUS CHANGES**

The Instructor reserves the right change the syllabus. Any changes will be announced in class and posted to CANVAS with an accompanying email to student’s UNT email address.