Instructor: Dr. Hassan Qandil (hassan.qandil@unt.edu)  
Office Hours: Via Email or Zoom Meetings.  
Lectures: MW 12:00 pm to 1:50 pm  
Location: ONLINE (ZOOM LECTURES)  
Teaching Assistant: Tonoy Chowdhury (TonoyChowdhury@my.unt.edu)  
TA Office Hours: Via Email or Zoom Meetings / TBA

Pre-requisite:  
Must complete either MEEN 2301 or ENGR 2301 (STATICS) with a grade of C or better.

Catalog Course Description:  
Basic concepts of stress and strains. Influence of loading direction and location on the deformation of structures. Understand the impact of loads on designs. Understand failure for designs.

Required Text: Mechanics of Materials, 10th Ed., Hibbeler, Pearson

ABET Criteria: Upon completion of this course, the student should be able to:  
• Understand concepts of stress/strain, influence of loading direction on deformation.  
• Understand impact of applied loads on design.  
• final extensions on axially loaded members subjected to tensile or thermal stresses.  
• Understand influence of torsional stresses on deformation of circular bars.  
• Understand shear force and bending moment diagrams.  
• Understand principal stress based on applied loads.  
• Understand influence of location of loads on the deflection.  
• Understand failure criterion for designs

CALCULATORS: only calculator approved for course are those permitted on (FE) exam. No graphing calculators.  
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 the day 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.

Attendance  5% (Extra credit for interactive lecture participation)
Homework  20% (Online PDF submissions)
Quizzes  20% Online problem solving, like home practice
Mid Term  25% Reading comprehension / multiple choice / qualitative
Final Exam  30% Online reading comprehension / multiple choice / qualitative
10% Extra Credit is available through an OPTIONAL FEA project

TENTATIVE LECTURE SCHEDULE

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<th>Week</th>
<th>Dates</th>
<th>Chapter</th>
<th>Topic</th>
<th>Quiz</th>
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<td>Jun. 1st – Jun. 5th</td>
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<td>Free Body Diagrams and Stress</td>
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<td>Jun. 8th – Jun. 12th</td>
<td>2,3</td>
<td>Strain and Material Mechanics</td>
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<td>3</td>
<td>Jun. 15th – Jun. 19th</td>
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<td>Axial Loads</td>
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<td>Jun. 22nd – Jun. 26th</td>
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<td>Bending</td>
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<td>5</td>
<td>Jun. 29th – Jul. 3rd</td>
<td>Midterm (Monday, Jun 29th 12pm to 2pm) (Ch: 1-4, 6) (Online using Lockdown Browser &amp; Respondus Monitor)</td>
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<td>6</td>
<td>Jul. 6th – Jul. 10th</td>
<td>5,7</td>
<td>Torsion and Transverse Shear</td>
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<td>Jul. 13th – Jul. 17th</td>
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<td>Combined Loading</td>
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<td>Jul. 20th – Jul. 24th</td>
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<td>Stress Transformation</td>
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<td>Aug. 3rd – Aug. 7th</td>
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<td>Buckling</td>
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ACCEPTABLE BEHAVIOR: I consider this class to be place where you will be treated with respect. All expected to contribute to respectful and inclusive environment. Students engaging in unacceptable behavior that may violate the Code of Student Conduct will be directed to leave the ZOOM session and the instructor may refer the student to the Dean of Students for investigation. We enforce student Code of Student Conduct at deanofstudents.unt.edu/conduct.

REMOTE COURSE DELIVERY

- All course announcements, lecture notes, recorded lectures and assignments will be posted on the MEEN 2332 Canvas site. **Students are expected to have access to the textbook on their own.** I will try to provide recommendations for alternative educational resources that are available online, whenever possible.
- We will have synchronous (live) **Zoom meetings during the regular class meeting times.** All Zoom meeting invitations along with references to Zoom
resources will be posted on the MEEN 2332 Canvas site. We will **use Zoom chat in lieu of in-class discussions.**

- **It will be the student responsibility to log in to Zoom and join the virtual lecture** using the details provided on ZOOM tab in CANVAS.
- I will hold **virtual office hours** via live Zoom sessions, a student can schedule a meeting by emailing me (hassan.qandil@unt.edu).
- All **assignments** will be posted online via CANVAS. Submissions are also online through CANVAS and in a **PDF format**.
- All **quizzes and exams** will be conducted via CANVAS using a LockDown browser and Respondus Monitor, which required that the student have access to a webcam and a microphone. For more details, please refer to the following link: [https://clear.unt.edu/supported-technologies/respondus-lockdown-browser](https://clear.unt.edu/supported-technologies/respondus-lockdown-browser) (Links to an external site.)
- Your **attendance/class participation** will be evaluated based on your participation in Zoom sessions.

**ACADEMIC INTEGRITY STANDARDS AND SANCTIONS FOR VIOLATIONS:**
According to UNT Policy 06.003, 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 zero assignment score and reported to Office of Academic Integrity. No exceptions. Having any calculator not on the approved list is a violation of Academic Integrity.

**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 eligibility. If a disability verified, ODA will provide student with 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. For additional information see the ODA website at disability.unt.edu

**STUDENT PERCEPTIONS OF TEACHING EFFECTIVENESS (SPOT)**
Course participates in SPOT evaluations (http://spot.unt.edu/ or email spot@unt.edu).

**RETENTION OF STUDENT RECORDS Course**
Follows Family Educational Rights and Privacy Act (FERPA) laws and UNT Policy 10.10, Records Management and Retention.

**SYLLABUS CHANGES**
Instructor reserves right change syllabus. Any changes announced in class and posted to CANVAS with an accompanying email to student’s UNT email address.