Welcome to UNT!
As members of the UNT community, we have all made a commitment to be part of an institution that respects and values the identities of the students and employees with whom we interact. UNT does not tolerate identity-based discrimination, harassment, and retaliation. UNT’s full Non-Discrimination Policy can be found in the UNT Policies section of the syllabus.

Instructor
Dr. Xiaodan Shi
Email: Xiaodan.Shi@unt.edu
Office: Discovery Park K240 J
Phone: 940-369-8950
Office Hours: appointment by email
Lectures: M, W, 8:30-9:20 am
Location: Discovery Park B185 or Zoom ID 921-2059-3510

Teaching Assistant
Najwa Oliver, Joy-AnneOliver@my.unt.edu
Dovile Strimaityte, DovileStrimaityte@my.unt.edu
Labs: Discovery Park K140

Course Description
Exploratory core course in Biomedical Engineering (BMEN) which shapes the BMEN student’s first year experience. The course covers basic concepts of biomedical engineering and their connection with the spectrum of human activity. It serves as an introduction to the fundamental science and engineering on which biomedical engineering is based. Prerequisites: None.

Course Objectives
Upon completion of the course, students should be able to gain (1) an understanding of engineering ethics and professionalism; (2) insight into BMEN research through invited guest speakers; (3) problem solving skills in engineering; (4) an understanding of engineering and mathematics fundamentals. The laboratory exercises and projects teach students to think critically and creatively by applying a range of analysis techniques borrowed from many engineering and science disciplines.

ABET Outcome 1: Ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
Course Materials
No required textbook. All course materials will be posted on Canvas including lecture notes, slides, assignments, reading, etc. Recommended reference:

- *Biomedical Engineering: Bridging Medicine and Technology*, by Mark Saltzman (ISBN 9781107037199)

Major Assignments and Grading

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation and quizzes</td>
<td>10%</td>
<td>A (89.5 – 100%)</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
<td>B (79.5 – 89.4%)</td>
</tr>
<tr>
<td>Laboratory</td>
<td>20%</td>
<td>C (69.5 – 79.4%)</td>
</tr>
<tr>
<td>Three exams</td>
<td>60%</td>
<td>D (59.5 – 69.4%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F (&lt; 59.5%)</td>
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</tbody>
</table>

Important Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/7</td>
<td>Labor Day (no class)</td>
</tr>
<tr>
<td>9/30</td>
<td>Exam 1 (8:30-9:20 am)</td>
</tr>
<tr>
<td>11/2</td>
<td>Exam 2 (8:30-9:20 am)</td>
</tr>
<tr>
<td>12/7</td>
<td>Exam 3 (8:30-10:00 am)</td>
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No in-person meetings after thanksgiving

Course Policy

Homework

Homework will be due on the designated time unless otherwise stated. All homework should be submitted to Canvas in the format of MS Word or PDF files. Do not email. No late homework accepted. Quizzes will be given on Canvas periodically.

Exams

There will be three sectional exams throughout the semester. Exams will be delivered via Lockdown Browser (webcam required) on Canvas. Each exam will cover materials from the previous lecture section only. Exam questions will be a combination of multiple choices, true/false, short answers, fill in the blanks, matching, etc.

Make-up exams will not be given without university-approved permission. [https://policy.unt.edu/sites/default/files/06.039_StudAttnandAuthAbsence.Pub2_.19.pdf](https://policy.unt.edu/sites/default/files/06.039_StudAttnandAuthAbsence.Pub2_.19.pdf)

Students who have more than two final examinations scheduled on one day may request to reschedule one of the examinations on another day during the final examination period as follows: [https://registrar.unt.edu/exams/exam-policies](https://registrar.unt.edu/exams/exam-policies)

Academic Integrity Policy

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.

**Attendance Policy**

The University of North Texas recognizes that student success is promoted by regular attendance and participation in class. It is the responsibility of the faculty member to notify students in writing of any special attendance requirements for the class. This policy applies to all modes of course delivery. [https://policy.unt.edu/policy/06-039](https://policy.unt.edu/policy/06-039)

**COVID-19 Impact on Attendance**

While attendance is expected as outlined above, it is important for all of us to be mindful of the health and safety of everyone in our community, especially given concerns about COVID-19. Please contact me if you are unable to attend class because you are ill, or unable to attend class due to a related issue regarding COVID-19. It is important that you communicate with me prior to being absent so I may make a decision about accommodating your request to be excused from class.

If you are experiencing any symptoms of COVID-19 ([https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html](https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html)) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider PRIOR to coming to campus. UNT also requires you to contact the UNT COVID Hotline at 844-366-5892 or COVID@unt.edu for guidance on actions to take due to symptoms, pending or positive test results, or potential exposure. While attendance is an important part of succeeding in this class, your own health, and those of others in the community, is more important.

**Statement on Face Covering**

Face coverings are required in all UNT facilities. Students are expected to wear face coverings during this class. If you are unable to wear a face covering due to a disability, please contact the Office of Disability Access to request an accommodation. UNT face covering requirements are subject to change due to community health guidelines. Any changes will be communicated via the instructor.

**Class Materials for Remote Instruction**

The UNT fall schedule requires this course to have fully remote instruction beginning November 28th. Additional remote instruction may be necessary if community health conditions change or you need to self-isolate or quarantine due to COVID-19. Additional required classroom materials for remote learning include: **Respondus Lockdown Browser with webcam**. Information on how to be successful in a remote learning environment can be found at [https://online.unt.edu/learn](https://online.unt.edu/learn).