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 Xiaodan.Shi@unt.edu
Dr. Vijay Vaidyanathan Vijay.Vaidyanathan@unt.edu
Edward Gates EdwardGates@my.unt.edu (lab manager)

Schedule: Every Friday 8:30-9:20 AM on Zoom
Textbook: None

Course Description:

- Team biomedical engineering design project involving development of problem statement, alternative approaches for solution, product portfolio, specific system analysis and design.
- Prerequisites: BMEN 3310, BMEN 3350, BMEN 3311, BMEN 3312, BMEN 3321; senior classification.

Course Objectives:

Upon successful completion of this course, students will understand: Develop a product or process portfolio with a marketing plan. Develop an understanding of the product development cycle from inception to a test model as used in an industrial setting. Develop an appreciation of a team effort in product development. Prepare a formal technical document covering the actual design. Learn the process of utilizing catalogs, specification sheets and vendor documents in the design process. Learn to apply the breath of the major engineering technology courses to the completion of the final design. Develop an appreciation for the requirements and techniques of an oral presentation covering a group effort. Develop an appreciation for the free market system.

ABET Outcomes: 1, 2, 3, 5

- Ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Ability to communicate effectively with a range of audiences.
- Ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
Brief list of topics to be covered:

- Engineering design project involving development of alternative approaches for solution.
- Implementation of design techniques and error analysis.

Grading Policy

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>89.5 – 100%</td>
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<tr>
<td>B</td>
<td>79.5 – 89.4%</td>
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<tr>
<td>C</td>
<td>69.5 – 79.4%</td>
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<tr>
<td>D</td>
<td>59.5 – 69.4%</td>
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<td>F</td>
<td>&lt; 59.5%</td>
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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 decide 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.