

## **BMEN 5940/6940 – Biomedical Engineering Seminar/Doctoral Seminar**

### **Course Syllabus**

**Class Time: Monday 4:00 pm – 4:50 pm**

**Classroom: In-Person, Discovery Park NTDP K110**

**(Only one ZOOM Meeting to one external speaker)**

#### **Instructors:**

Dr. Huaxiao Yang, Assistant Professor, Department of Biomedical Engineering

**Office Hours: Thursday 1:30 pm – 2:30 pm by appointment via email, In-Person, or ZOOM**

**Email: [huaxiao.yang@unt.edu](mailto:huaxiao.yang@unt.edu)**

#### **Course Description:**

Introduction to biomedical engineering research conducted by faculty and researchers at UNT and external institutions. Students are required to make a well-researched presentation at the end of the course. In each week, we host one speaker to give us a talk about his/her lab and research for 40 to 45 minutes, and 5 to 10 minutes for Q&A. Our speakers are professors and experts in the academic and industrial fields from Nanotechnology, Bioinstrumentation, Biomaterials, biomedical imaging, nano/microfabrication, synthetic biology, biomechanics, machine learning, stem cells, genome editing, drug delivery, and so on.

In the last three sessions of class, every student is also provided an opportunity to present his/her research and obtained feedback from faculty and the rest of the audience, which helps our students have a perfect public speech in their research area.

**Textbook:** None required

#### **Where:**

**In-Person: Discovery Park NTDP K110**

**On-Zoom: <https://unt.zoom.us/j/9021501456>**

#### **Course Objectives:**

By the end of this course, students will be able to: a) immersive experiences to the cutting edge biomedical science and engineering; b) opportunities to network with research faculty in the academia; c) Practices to perfect your public speech in academia and industry.

**Grading Policies:**

Attendance	50/100 point
Presentation	50/100 point
<b>Total</b>	<b>100/100 point</b>

A – 90-100%

B – 80-89%

C – 70-79%

D – 60-69%

F – < 59%

**Requirements for student presentation:**

**BMEN 5940 - A group presentation is required. A group presentation is 9 min for presentation and 1 min Q and A.**

**BMEN 6940 – Each student needs to do a presentation. An individual presentation duration is 9 min for presentation and 1 min Q and A.**

**Students are required to discuss with the instructor about their/her/his presentation topic and have the instructor's approval two weeks ahead of the presentation date.**

**Date for student presentations:**

Day 1: 10/25/2021 Presentation 1, 2, 3, 4, and 5

Day 2: 11/22/2021 Presentation 6, 7, 8, 9, and 10

Day 3: 12/06/2021 Presentation 11, 12, 13, 14, 15, and 16

Please find your presentation number

**The format of the presentation include: introduction, methods, results, conclusions, and references**

**Please find the score sheet as follows for the specific criteria of presentation.**

Relevance and significance in the technologies of biomedical applications and translations <u>(10 points)</u>	Layout and format of Presentation content <u>(20 points)</u> (1. Background 2. Methods 4. Results 5. Discussion 6. References	Speakers' performance (20 points) (good diction; good articulation; good transition between speakers; good teamwork; good punctuality)	Question and Answer (10 points) (understand the questions, answer properly, clearly, and confidently, good team support)
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**Additional Comments:**

- Students are encouraged to read topic and speaker-related publications before each seminar for a better understanding of the content of the talk.
- Students are highly encouraged to ask questions after each talk for better communicating and networking with the speakers.
- All students are responsible for announcements made in lectures on the Canvas

**Withdraws:** Note that students wishing to drop the course must take appropriate action (Details can be found in the following link: <http://essc.unt.edu/registrar/schedule/withdraw.html>). It is your responsibility to make sure all of the requisite paperwork is submitted. Ceasing attendance does not automatically drop you from the course.

**Americans with Disabilities Act:** The University of North Texas does not discriminate on the basis of an individual's disability and complies with Section 504 and Public Law 101-336 (Americans with Disabilities Act) in its admissions, accessibility, treatment, and employment of individuals in its programs and activities. A copy of the College of Engineering ADA Compliance Document is available in the Dean's Office. **It is the responsibility of the student to inform the instructor of any disabling condition that will require modifications by the 12<sup>th</sup> class day.**

**Attendance:**

100% attendance is required, however absences may be permitted if 1) Notify at least one week before the date of absence with proper justifications and related materials (if apply); 2) Emergent absences due to medical issues or family events, and an explanation email is required by the student or legal guardian thereafter.

**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](mailto: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](mailto: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**

UNT encourages everyone to wear a face covering when indoors, regardless of vaccination status, to protect yourself and others from COVID infection, as recommended by current CDC guidelines. Face covering guidelines could change based on community health conditions.

**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.

**ADA Policy**

UNT makes reasonable academic accommodations 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 (<https://disability.unt.edu/>).

### **Prohibition of Discrimination, Harassment, and Retaliation (Policy 16.004)**

The University of North Texas (UNT) prohibits discrimination and harassment because of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

### **Emergency Notification & Procedures**

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.