INF 385T: AI in Health

Semester: Spring 2023 (28230)
Time and Location: Wednesday 12:00-3:00PM at UTA1.212
Instructor: Ying Ding, ying.ding@ischool.utexas.edu, UTAS.432
TA: Chongyan Chen, chongyanchen_hci@utexas.edu
Office Hours:
Instructor: Wednesday 11:00-12:00 at https://utexas.zoom.us/j/5128555388 or by appointment;
TA: Thursday 8-9PM
at https://utexas.zoom.us/j/6724739660?pwd=NGdQMm1CdEtIWWpMRnViSjdYbGRqQT09 or by appointment;

Course Description

Course Description
Recently, the U.S. healthcare industry has surpassed manufacturing and retail to become the largest employer in the country, with every 1 out of 8 Americans working in this sector. Policies and incentives have been established to promote IT in health to improve care and delivery. In this course, we will explore the major components of health IT systems, ranging from data semantics (ICD10), data interoperability (FHIR), diagnosis code (SNOMED CT), to workflow in clinical decision support systems. After establishing the good understanding of the fundamentals of health IT systems, we will dive deep into how AI innovations (e.g., machine learning, deep learning, computer vision) are transforming our healthcare system by introducing new concepts of mobile health, AI diagnosis, AI medicine, smart device, and intelligent delivery. This course will offer hands-on tutorials based on the real-world Electronic Health Record (EHR) data from MIMIC III (https://mimic.physionet.org/) released by MIT Critical Data. MIMIC-III (Medical Information Mart for Intensive Care III) contains de-identified health information from over forty thousand patients who stayed in critical care units of the Beth Israel Deaconess Medical Center between 2001 and 2012. These tutorials aim to enhance data search and analytic skills by providing practices related to database search, natural language processing, data visualization, machine learning, and deep learning. In this course, we will enhance the group learning experience and learning by doing, therefore, there will be many class activities. This course is designed for everyone, so no programming background is required or desired.

Pre-Requisites
No pre-requisites for this course.

Learning Outcomes
After attending this course, you should be able to achieve the following goals:

- Be aware of current healthcare initiatives to deliver quality care
- Understand the basic technologies of health IT systems including data semantics, data interoperability, workflow, and clinical decision support systems
- Be familiar with electronic health record systems (EHR systems)
• Gain the overview of AI innovations in healthcare
• Master practical skills of data search and analytics including database search, natural language processing, data visualization, machine learning, and deep learning

How Will You Learn?

Statement of Learning Success
Your success in this class is important to me. We all learn differently, and everyone struggles sometimes. You are not, ever, the only one having difficulty! If there are aspects of this course that prevent you from learning or exclude you, please let me know as soon as possible. Together we will develop strategies to meet both your needs and the requirements of the course. I also encourage you to reach out to the student resources available through UT and I am happy to connect you with a person or Center if you would like.

Teaching Modality Information
Classes will be in-person which requires in-person attendance. Due to the uncertainty of the COVID situation, we might move some portion online via zoom. We will keep you all informed. All online classes will be recorded and shared with you via canvas.

Communication
The course Canvas site can be found at utexas.instructure.com. Please email me through Canvas or using my email above (the preferred way). You are responsible for ensuring that the primary email address you have recorded with the university is the one you will check for course communications because that is the email address that Canvas uses.

Asking for Help
You can reach me anytime by just sending me an email using my UT email address above. If you have specific coding issues with python, please feel free to reach out to our TA using his email above. I will host the office hours each week either at my zoom or in my office. There is no formality, simply drop by if you have any questions to discuss or simply just want to chat. All are welcome. TA will host his office hours each week as well. If you have any specific questions about data, coding, and homework, please feel free to talk to him.

Diversity, Equity and Inclusion
It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students’ learning needs be addressed, and that the diversity that students bring to this class can be comfortably expressed and be viewed as a resource, strength and benefit to all students. Please come to me at any time with any concerns.

Services for Students with Disabilities
The university is committed to creating an accessible and inclusive learning environment consistent with university policy and federal and state law. Please let me know if you experience any barriers to learning so I can work with you to ensure you have equal opportunity to participate fully in this course. If you are a student with a disability, or think you may have a disability, and need accommodations please contact Services for Students with Disabilities (SSD). Please refer to SSD’s website for contact and more information: http://diversity.utexas.edu/disability/. If you are already registered with SSD, please deliver
your Accommodation Letter to me as early as possible in the semester so we can discuss your approved accommodations and needs in this course.

**Course Requirements**

**Course Materials**

**Recommended books**


**Recommended Readings:**

Research using MIMIC data: [https://read.qxmd.com/keyword/229497](https://read.qxmd.com/keyword/229497)

Paper with code: [https://paperswithcode.com/](https://paperswithcode.com/)

Weekly Reading Seminar (optional): every Thursday 8-10PM at [https://utexas.zoom.us/j/5128555388](https://utexas.zoom.us/j/5128555388)

**Data and Software**

MIMIC III and MIMIC IV: contains de-identified data from over 40,000 patients who were admitted to Beth Israel Deaconess Medical Center in Boston, Massachusetts from 2001 to 2012.

- Data: [https://physionet.org/content/mimiciii/1.4/](https://physionet.org/content/mimiciii/1.4/)
- Get access: [https://mimic.physionet.org/gettingstarted/access/](https://mimic.physionet.org/gettingstarted/access/), [https://physionet.org/about/citi-course/](https://physionet.org/about/citi-course/)

Python Coding using Google Colab: [https://colab.research.google.com/](https://colab.research.google.com/)

Tableau: [https://www.tableau.com/academic/students](https://www.tableau.com/academic/students)

**Required Devices**

A laptop is required and should be brought to the classroom.

**Classroom Expectations**

Class attendance and participation are important to build a welcoming and engaging learning environment for all of us. They are required and count 10% of your final grade. If you cannot attend a class, please send me your written excuse via email.

**Course Outline**

All instructions, assignments, readings, rubrics and essential information will be on the Canvas website at utexas.instructure.com. Check Canvas regularly. Changes to the schedule may be made at my
discretion if circumstances require. I will announce any such changes in class and will also communicate them via a Canvas announcement.

**Schedule (tentative)**

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
<th>Class Activities</th>
<th>Lab/Tutorial</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>L1-1/11</td>
<td>Introduction, Knowing each other</td>
<td>(prep: required</td>
<td>Course Overview</td>
<td>Get access to MIMIC III Start MIT ethics course,</td>
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<td>Readings, focus</td>
<td>Introduce MIMIC III</td>
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<td>questions)</td>
<td>Form the expert group</td>
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<td>(1-Data semantics, 2-Data</td>
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<td>Share/FHIR, 3-ML/DL in health,</td>
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<td>4-AI ethics in health, 5-</td>
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<td>Explainable AI in health)</td>
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<td>L2-1/18</td>
<td>Evidence-based Care, i2b2 and OMOP</td>
<td>(Data Model: Benjamin</td>
<td>MIT ethics course</td>
<td>MIT ethics course due submit the request</td>
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<td>Glicksberg)</td>
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<td>Form group for group project</td>
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<td>(prep: required</td>
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<td>Readings, focus</td>
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<tr>
<td>L3-1/25</td>
<td>EMR Semantics: ICD10, ICD10 (COVID) and</td>
<td>expert group 1 (prep:</td>
<td>T1: MIMIC-Visual</td>
<td>Form a group randomly for self-learning</td>
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<td>ICD9 (MIMIC)</td>
<td>required Readings, focus</td>
<td>Tableau I</td>
<td>tutorial, Get MIMIC access permission, self-</td>
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<td></td>
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<td>questions)</td>
<td>T1: MIMIC-Visual Tableau I</td>
<td>learning tutorials (on Tableau, SQL, NLP, ML,</td>
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<td>S1: MIMIC-Visual Tableau I</td>
<td>DL)</td>
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<tr>
<td>L4-2/1</td>
<td>EMR Semantics: SNOMED CT I</td>
<td>expert group 2 (prep:</td>
<td>T1: MIMIC-Visual</td>
<td>Send the group project summary to TA</td>
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<td>required Readings, focus</td>
<td>Tableau II</td>
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<td>questions)</td>
<td>T1: MIMIC-Visual Tableau II</td>
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<tr>
<td>L5-2/8</td>
<td>EMR Semantics: SNOMED CT II, SNOMED and</td>
<td>expert group 3 (prep:</td>
<td>T2: MIMIC-SQL I</td>
<td>MIMIC Tableau Gallery due</td>
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<td>ICD10</td>
<td>required Readings, focus</td>
<td>T2: MIMIC-SQL I</td>
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<td>questions)</td>
<td>T2: MIMIC-SQL I</td>
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<tr>
<td>L6-2/15</td>
<td>EMR Semantics: LOINC</td>
<td>expert group 4 (prep:</td>
<td>T2: MIMIC-SQL II</td>
<td>Group project</td>
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<td></td>
<td>required Readings, focus</td>
<td>T2: MIMIC-SQL II</td>
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<tr>
<td>L7-2/22</td>
<td>EMR Semantics: RxNorm</td>
<td>expert group 5 (prep:</td>
<td>T3: MIMIC-NLP Spacy</td>
<td>Group project</td>
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<td>required Readings, focus</td>
<td>T3: MIMIC-NLP Spacy</td>
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<tr>
<td>L8-3/1</td>
<td>Clinical Decision Support System (CDSS:</td>
<td>expert group 1</td>
<td>T3: MIMIC-NLP: sciSpacy</td>
<td>MIMIC SQL due</td>
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<tr>
<td></td>
<td>Justin Rousseau)</td>
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<td>T3: MIMIC-NLP: sciSpacy</td>
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<td>T3: MIMIC-NLP: sciSpacy</td>
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**Notes:**
- *L1-1/11*: Introduction, Knowing each other
- *L2-1/18*: Evidence-based Care, i2b2 and OMOP
- *L3-1/25*: EMR Semantics: ICD10, ICD10 (COVID) and ICD9 (MIMIC)
- *L4-2/1*: EMR Semantics: SNOMED CT I
- *L5-2/8*: EMR Semantics: SNOMED CT II, SNOMED and ICD10
- *L6-2/15*: EMR Semantics: LOINC
- *L7-2/22*: EMR Semantics: RxNorm
- *L8-3/1*: Clinical Decision Support System (CDSS: Justin Rousseau)
<table>
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<tr>
<th>L9-3/8</th>
<th>Data Share: FHIR (FHIR: Darrell Woelk)</th>
<th>expert group 2 (prep: required Readings, focus questions)</th>
<th>T3: MIMIC-NLP: ClinicalBert</th>
<th>Group project</th>
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<tr>
<td>3/15-</td>
<td>Spring break</td>
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<tr>
<td>L10-3/22</td>
<td>AI health: ML/DL I</td>
<td>expert group 3 (prep: required Readings, focus questions)</td>
<td>T4: MIMIC-ML LOS I</td>
<td>Group project</td>
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<tr>
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<td>(Explainable AI and Multimodal fusion learning: Tianjian Guo)</td>
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<td>(Disease Progression Model: Tingyi Wanyan)</td>
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<td>(cTakes, ClinicalBert, bioBert, Bert, metamap, negabert)</td>
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<tr>
<td>L12-4/5</td>
<td>AI health: imaging</td>
<td>expert group 5 (prep: required Readings, focus questions)</td>
<td>T5: MIMIC-ML Readmission I</td>
<td>Group Assignment Due</td>
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<td>(Medical Imaging Diagnosis: Chongyan Chen)</td>
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<tr>
<td>L13-4/12</td>
<td>AI in drug discovery, robotics and smart device</td>
<td>Group Project</td>
<td>T5: MIMIC-ML Readmission II</td>
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<td>L15-4/26</td>
<td>Final Presentation</td>
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<td>L16-5/3</td>
<td>Final Report Due</td>
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<td>Final Group Report Due</td>
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**Course Assignments and Grading**

**Assignments**

**Individual Assignments** (45%)

1. MIT Ethics Course (5%): pass the course, submit your certificate
2. MIMIC Tableau (10%): Develop the visual gallery using Tableau on MIMIC data (Tableau file, powerpoint slides to show details with the goal that other students can follow and rebuild your gallery).

3. MIMIC SQL (10%): Develop 10 SQL queries using MIMIC data (powerpoint slides showing SQL queries, meaning of each query, screenshots for results)

4. MIMIC NLP (10%): generate an NLP tutorial using MIMIC data (powerpoint slides, python code).

5. MIMIC ML tutorial (10%): generate a ML tutorial using MIMIC data (powerpoint slides, python code).

Group Assignment (15%): Self-learning tutorial using MIMIC data (powerpoint slides, code, and video)

- Professor will pair two students to form a group
- Your group can select a topic to develop a tutorial using MIMIC: any topic you like
- Peer learning together: Another team will be assigned to learn the materials you have developed, provide feedback, and grade your tutorial
- The best way to learn is to be able to teach others: create slides and videos, and upload them to Canvas.
- Potential resources: https://paperswithcode.com/

Group Project (30%): For a team with no more than 3 members to work on a selected topic based on the follow options:

- Build an evidence-based care app/tool on health risk prediction
- Build a prototype to implement explainable AI in healthcare
- Implement a deep learning model for chest x-ray image diagnosis
- Analyze clinical notes
- Write report related social sides of AI in Health

Output: A report with less than 5 pages (aiming for a workshop paper using ACM template: https://www.acm.org/publications/taps/word-template-workflow), powerpoint, code, presentation and demo

Some examples:

- Using shapley to understand disparity: https://arxiv.org/pdf/2111.08168.pdf
- Explainable AI on COVID patients: https://www.medrxiv.org/content/10.1101/2020.06.07.20124933v1.full.pdf
- Patient embedding: https://proceedings.neurips.cc/paper/2018/file/934b535800b1c8f96a5d72f72f1611-Paper.pdf
Class presentations, participations, and final presentation (10%)

Late Work and Making Up Missed Work
Late work without proper excuse is not accepted. Each late work is subject to a 1-point grade reduction for every one hour late.

Absences
Each absence in class without proper excuse will get 1-point grade reduction from your final grade.

Equitable Accommodation
If you want to improve your grade, adding extra work to your assignments can be considered. Please discuss this with your instructor.

Grade Breaks

<table>
<thead>
<tr>
<th>Grade</th>
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<tbody>
<tr>
<td>A</td>
<td>94%</td>
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<td>A-</td>
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<td>B+</td>
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Course Policies and Disclosures

Academic Integrity Expectations
Students who violate University rules on academic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since such dishonesty harms the individual, all students, and the integrity of the University, policies on academic dishonesty will be strictly enforced. For further information, please visit the Student Conduct and Academic Integrity website at: http://deanofstudents.utexas.edu/conduct.

Getting Help with Technology
Students needing help with technology in this course should contact the ITS Service Desk or email iSchool Helpdesk <help@ischool.utexas.edu> for software, hardware, or other technology available at our iSchool.
Content Warning
Our classroom provides an open space for the critical and civil exchange of ideas. Some readings and other content in this course will include topics that some students may find offensive and/or traumatizing. I’ll aim to forewarn students about potentially disturbing content and I ask all students to help to create an atmosphere of mutual respect and sensitivity.

Religious Holy Days
By UT Austin policy, you must notify me of your pending absence as far in advance as possible of the date of observance of a religious holy day. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

Names and Pronouns
Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. I will gladly honor your request to address you by your chosen name and by the gender pronouns you use. Class rosters are provided to the instructor with the student’s chosen (not legal) name, if you have provided one. If you wish to provide or update a chosen name, that can be done easily at this page, and you can add your pronouns to Canvas.

Land Acknowledgment
I would like to acknowledge that we are meeting on the Indigenous lands of Turtle Island, the ancestral name for what now is called North America. Moreover, I would like to acknowledge the Alabama-Coushatta, Caddo, Carrizo/Comanche, Coahuiltecan, Comanche, Kickapoo, Lipan Apache, Tonkawa and Ysleta Del Sur Pueblo, and all the American Indian and Indigenous Peoples and communities who have been or have become a part of these lands and territories in Texas.

University Resources for Students
SERVICES FOR STUDENTS WITH DISABILITIES (SSD)
The university is committed to creating an accessible and inclusive learning environment consistent with university policy and federal and state law. Please let me know if you experience any barriers to learning so I can work with you to ensure you have equal opportunity to participate fully in this course. If you are a student with a disability, or think you may have a disability, and need accommodations please contact Services for Students with Disabilities (SSD). Please refer to SSD’s website for contact and more information: http://diversity.utexas.edu/disability/. If you are already registered with SSD, please deliver your Accommodation Letter to me as early as possible in the semester so we can discuss your approved accommodations and needs in this course.

COUNSELING AND MENTAL HEALTH CENTER (CMHC)
All of us benefit from support during times of struggle. Know you are not alone. If you or anyone you know is experiencing symptoms of stress, anxiety, depression, academic concerns, loneliness, difficulty sleeping, or any other concern impacting your wellbeing – you are strongly encouraged to connect with CMHC. The Counseling and Mental Health Center provides a wide variety of mental health services to all UT students including crisis services, counseling services with immediate support and well-being resources. Additionally, CARE Counselors are located within the academic schools and colleges. These
counselors get to know the concerns that are unique to their college’s students. For more information on CMHC, visit https://cmhc.utexas.edu or call 512-471-3515.

UNIVERSITY HEALTH SERVICES (UHS)
Your physical health and wellness are a priority. University Health Services is an on-campus high-quality medical facility providing care to all UT students. Services offered by UHS include general medicine, urgent care, a 24/7 nurse advice line, women’s health, sports medicine, physical therapy, lab and radiology services, COVID-19 testing and vaccinations and much more. For additional information, visit https://healthyhorns.utexas.edu or call 512-471-4955.

SANGER LEARNING CENTER
Did you know that more than one-third of UT undergraduate students use the Sanger Learning Center each year to improve their academic performance? All students are welcome to take advantage of Sanger Center’s classes and workshops, private learning specialist appointments, peer academic coaching, and tutoring for more than 70 courses in 15 different subject areas. For more information, please visit https://ugs.utexas.edu/slc or call 512-471-3614 (JES A332).”

STUDENT EMERGENCY SERVICES (SES)
Student Emergency Services in the Office of the Dean of Students helps students and their families during difficult or emergency situations. Assistance includes outreach, advocacy, intervention, support, and referrals to relevant campus and community resources. If you need to be absent from class due to a family emergency, medical or mental health concern, or academic difficulty due to crisis or an emergency situation, you can work with Student Emergency Services. SES will document your situation and notify your professors. If immediate mental health assistance is needed, call the Counseling and Mental Health Center (CMHC) at 512-471-3515 or you may also contact Bryce Moffett, LCSW (iSchool CARE counselor) at 512-232-2983. Outside CMHC business hours (8a.m.-5p.m., Monday-Friday), contact the CMHC 24/7 Crisis Line at 512-471-2255. Additional information is available at https://deanofstudents.utexas.edu/emergency/ or by calling 512-471-5017.

Important Safety Information
If you have concerns about the safety or behavior of fellow students, TAs or professors, contact BCCAL (the Behavior Concerns and COVID-19 Advice Line) at https://safety.utexas.edu/behavior-concerns-advice-line or by calling 512-232-5050. Confidentiality will be maintained as much as possible, however the university may be required to release some information to appropriate parties.

CLASSROOM SAFETY AND COVID-19
To help preserve our in-person learning environment, the university recommends the following.
- Adhere to university mask guidance. Masks are strongly recommended, but optional, inside university buildings for vaccinated and unvaccinated individuals, except when alone in a private office or single-occupant cubicle.
- Vaccinations are widely available, free and not billed to health insurance. The vaccine will help protect against the transmission of the virus to others and reduce serious symptoms in those who are vaccinated.
- Proactive Community Testing remains an important part of the university’s efforts to protect our community. Tests are fast and free.
- We encourage the use of the Protect Texas App each day prior to coming to campus.
• If you develop COVID-19 symptoms or feel sick, stay home and contact the University Health Services’ Nurse Advice Line at 512-475-6877. If you need to be absent from class, contact Student Emergency Services and they will notify your professors. In addition, to help understand what to do if you have been had close contact with someone who tested positive for COVID-19, see this University Health Services link.
• Behavior Concerns and COVID-19 Advice Line (BCCAL) remains available as the primary tool to address questions or concerns from the university community about COVID-19.
• Students who test positive should contact BCCAL or self-report (if tested off campus) to University Health Services.
• Visit Protect Texas Together for more information.

TITLE IX DISCLOSURE
Beginning January 1, 2020, Texas Senate Bill 212 requires all employees of Texas universities, including faculty, to report any information to the Title IX Office regarding sexual harassment, sexual assault, dating violence and stalking that is disclosed to them. Texas law requires that all employees who witness or receive any information of this type (including, but not limited to, writing assignments, class discussions, or one-on-one conversations) must be report it. If you would like to speak with someone who can provide support or remedies without making an official report to the university, please email advocate@austin.utexas.edu. For more information about reporting options and resources, visit http://www.titleix.utexas.edu/, contact the Title IX Office via email at titleix@austin.utexas.edu, or call 512-471-0419. Although graduate teaching and research assistants are not subject to Texas Senate Bill 212, they are still mandatory reporters under Federal Title IX laws and are required to report a wide range of behaviors we refer to as sexual misconduct, including the types of sexual misconduct covered under Texas Senate Bill 212. The Title IX office has developed supportive ways to respond to a survivor and compiled campus resources to support survivors.

Faculty members and certain staff members are considered “Responsible Employees” or “Mandatory Reporters,” which means that they are required to report violations of Title IX to the Title IX Coordinator. I am a Responsible Employee and must report any Title IX-related incidents that are disclosed in writing, discussion, or one-on-one. Before talking with me or with any faculty or staff member about a Title IX-related incident, be sure to ask whether they are a responsible employee. If you want to speak with someone for support or remedies without making an official report to the university, email advocate@austin.utexas.edu. For more information about reporting options and resources, visit the Title IX Office or email titleix@austin.utexas.edu.

CAMPUS SAFETY
The following are recommendations regarding emergency evacuation from the Office of Campus Safety and Security, 512-471-5767,
• Students should sign up for Campus Emergency Text Alerts at the page linked above.
• Occupants of buildings on The University of Texas at Austin campus must evacuate buildings when a fire alarm is activated. Alarm activation or announcement requires exiting and assembling outside.
• Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.
• Students requiring assistance in evacuation shall inform their instructor in writing during the first week of class.
• In the event of an evacuation, follow the instruction of faculty or class instructors. Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.
• For more information, please visit emergency preparedness.