EENG 4350.001 & EENG 5350.001 Renewable Electrical Power Systems Fall 2022 – Syllabus

Tentative Syllabus – Subject to change according to circumstances

Contents

Course Description	2
Course Prerequisites	2
Class Schedule	2
Instructor	2
Course Structure	2
Assessments and Grading	3
Schedules of exams	3
Textbooks	3
Class Evaluation by Students	3
Course Learning Outcomes	3
Required Technology and Skills	4
Minimum Technology Requirements	4
Computer Skills and Digital Literacy	4
Technical Assistance	4
Course Topics	5
Tentative Course Calendar	7
Course Policies	8
Syllabus Change Policy	8
Grades	8
Attendance	8
COVID-19 Impact on Attendance	8
Class Participation	8
Late Work	8
Examination Policy	8
Assignment Policy	8
Instructor Responsibilities and Feedback	8
UNT policies	
Rules of Engagement	
Academic Integrity Policy	
ADA Policy	

Prohibition of Discrimination, Harassment, and Retaliation (Policy 16.004)		
Emergency Notification & Procedures	10	
Retention of Student Records	10	
Acceptable Student Behavior	10	
Access to Information - Eagle Connect	11	
Student Evaluation Administration Dates	11	
Sexual Assault Prevention	11	
Use of Student Work	11	
Academic Support and Student Services: Mental Health	12	
Chosen Names	12	
Pronouns	12	
Additional Student Support Services	13	
Academic Support Services	13	

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Course Description

Fundamental course on efficient and renewable electrical power systems with relationships to environmental systems. Integration of renewable and alternative energy generation to the electric power system grid. Environmental challenges for the harnessing of renewable and alternative energy sources for electrical power systems. Credit hours: 3.

Course Prerequisites

Senior standing or Master standing. Students are expected to have knowledge of physics, chemistry, and mathematics (up to linear algebra and differential equations). In addition, students are expected to have basic skills using computers such as managing files, using spreadsheets, bibliography search, and elements of programming.

Class Schedule

Monday and Wednesday 10:00-11:20 am, in person at DP B227

Instructor

- Miguel F. Acevedo, Regents Professor Electrical Engineering (EE), and Advanced Environmental Research Institute (AERI). Office Discovery Park B-260, Phone 940-891-6701, acevedo@unt.edu.
 Office hours: Monday-Wednesday 9-10 AM, and 11:30- 12:00 or by appointment.
- The preferred means of communication with the instructor is by Email using your UNT student Email account.

Course Structure

- Online resources: Canvas https://unt.instructure.com/
- Lectures in person at DP at fixed times per schedule and attendance is required. When needed, lectures will be delivered online by Zoom (links will be given in Canvas).
- Lecture time will include taking examinations (quizzes and exams), examples of problem solving, going over answers to questions in problem sets and quizzes, and reviews prior to quizzes and exams.

- Problem sets developed individually and submitted via Canvas per course calendar.
- Examinations (quizzes and exams) taken in class individually online via Canvas at fixed times per schedule and using Respondus LockDown Browser. Examinations (quizzes and exams) will be on a timer.
- Computer based labs using R and package renpow
- Remote field webinars using Zoom as needed.

Assessments and Grading

Assessment	Modality	Late/makeup policy	Points possible	Percent of final grade
Weekly problem sets	Submitted via Canvas Due Mondays 11:59 pm	No late submittal accepted	25	25%
Weekly quizzes	Taken in-class via Canvas on Wednesdays 11 am	No makeup given	25	25%
Midterm exam	Taken in-class via Canvas per schedule	No makeup given	25	25%
Final exam (not comprehensive)	Taken in-class via Canvas per schedule	No makeup given	25	25%
Total possible			100	100%

Grading scale to obtain final letter grade from percentage

A = 90.0-100.0

B = 80.0-89.9

C = 70.0-79.9

D = 60.0-69.9

F = 0.0-59.9

Schedules of exams

- Midterm: October 19, 2022, at class time 10:00 -11:20 AM.
- Final: According to UNT exam schedule: December 10, 8:00-10:00 am http://registrar.unt.edu/exams/final-exam-schedule/fall

Textbooks

Recommended: Acevedo M.F. 2018. *Introduction to renewable power systems and the environment with R*. CRC Press, 439 pp, ISBN 978-1138197343.

Class Evaluation by Students

The SPOT (Student Perceptions of Teaching) evaluation is a requirement for all organized classes at UNT and is available for your input at the end of the semester.

Course Learning Outcomes

The Course Learning Outcomes (CLOs) are listed below and are evaluated by surveys of self-assessment from students at the beginning and end of the semester. The results become part of ABET accreditation reports of the EE department.

- CLO-1 Working grasp of various forms of energy and power and their relation to electricity production.

 Understanding what makes an energy- conversion process renewable.
- CLO-2 Awareness of the importance of understanding environmental systems, Carbon cycle, fossil fuel resources, global climate change, air pollution, and sustainability

- CLO-3 Review and extend prior knowledge of DC circuits and power. Electrical storage. Batteries, super-capacitors.
- CLO-4 Review and extend prior knowledge of AC circuits and power. Electromagnetic devices. Three-phase circuits, transformers, generators. Power quality: harmonics, power factor.
- CLO-5 Understand the role of thermodynamics in electric power systems: Carnot cycle, heat engine, entropy, and enthalpy. Understanding fuel cells.
- CLO-6 Basic knowledge of coal and steam combustion generation. Rankine cycles. Coal-fired power plants. Alternative: geothermal, nuclear and biomass.
- CLO-7 Basic knowledge of gas turbines and combustion engines. Brayton and Otto cycles. Distributed generation: Microturbines, Stirling engines, co-generation.
- CLO-8 Acquire an overall view of electric power industry. Generation, transmission, distribution. Baseload, intermediate and peaking power plants, load–duration curves.
- CLO-9 Working grasp of hydropower. Watersheds, Reservoirs, dams. Turbines. Reservoir and power management. Micro hydropower. Wave and tidal power
- CLO-10 Working grasp of wind power generation. Environmental conditions. Technologies, generators. Efficiencies, economics. Small-scale. Utility scale
- CLO-11 Working grasp of solar power: Sun-Earth relations, sun path, insolation, radiation, and tracking. Photovoltaic systems. Small scale. Utility scale. Environmental conditions, efficiencies.

Required Technology and Skills

Students will need access to a set of minimum technological resources and skills to succeed in this class. This course has digital components. To fully participate in this class, students will need internet access to reference content on the Canvas Learning Management System and other requirements as described below. If circumstances change, you will be informed of other technical needs to access course content. Information on how to be successful in a digital learning environment can be found at Learn Anywhere (https://online.unt.edu/learn).

Minimum Technology Requirements

The students are required to have:

- Computer
- Reliable internet access and web browser
- Canvas Technical Requirements (https://clear.unt.edu/supported-technologies/canvas/requirements)
- Install Respondus LockDown Browser (available from Canvas)

Computer Skills and Digital Literacy

Course-specific technical skills learners must have to succeed in the course:

- Using Canvas for accessing materials and grades, as well as submitting files and taking examinations.
- Converting files to PDF
- Using email with attachments
- Downloading and installing software
- Using spreadsheet programs
- Using presentation and graphics programs
- Using R and package renpow
- Performing online library searches

Technical Assistance

Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

UIT Help Desk: UIT Student Help Desk site (http://www.unt.edu/helpdesk/index.htm)

Email: helpdesk@unt.edu Phone: 940-565-2324

In Person: Sage Hall, Room 130 Walk-In Availability: 8am-9pm

Telephone Availability:

• Sunday: noon-midnight

• Monday-Thursday: 8am-midnight

Friday: 8am-8pmSaturday: 9am-5pmLaptop Checkout: 8am-7pm

For additional support, visit <u>Canvas Technical Help</u> (https://community.canvaslms.com/docs/DOC-10554-4212710328)

Course Topics

- Introduction
 - Energy and Power
 - Potential and kinetic energy; EM energy, thermal energy, chemical energy
 - Carbon-based power systems
 - Terminology: Clean, Alternative, Renewable, Green, or Sustainable
 - Electric power systems
- Environmental Systems, the Carbon Cycle, and Fossil Fuels
 - Ecosystems and the Carbon Cycle
 - Carbon Dioxide in the Atmosphere and Global Temperature
 - Geologic History and Age of Fossil Fuels
 - Shortening the Cycle and Sequestering Carbon
- Fundamentals of Direct Current Electric Circuits
 - Basics of Electric Circuits, Current and Voltage, Circuit Analysis Methods
 - Modeling Voltage and Current Sources
 - Resistivity, Wires, and Power Loss in the Wire
 - Batteries and Electrochemical Cells
- Thermodynamics
 - First Law of Thermodynamics
 - PV Paths and States
 - Heat Engine, Cycles, and Carnot Limit
- Electrical Storage Elements, Basics of AC Circuits, and AC-DC Conversion
 - Principles of Circuits with Energy Storage Elements
 - Electromechanical Devices
 - Basics of AC Systems
 - AC to DC and DC to DC Conversion
- More Thermodynamics State Functions: Entropy, Enthalpy, and Free Energy
 - Entropy and the Second Law of Thermodynamics, The T-s Plane
 - Enthalpy and Free Energy
 - Thermochemical Processes
 - Fuel Cells
- Coal- and Steam-Based Processes
 - Coal Characteristics and Types, World Coal Consumption and Reserves

- Coal-Fired Power Plants
- Earth's Atmosphere, Environmental Impacts of Coal-Fired Power Plants
- Other Steam-Based Systems, Nuclear, Geothermal
- Alternating Current (AC) Circuits and Power
 - Impedance
 - Instantaneous and Average Power, Root Mean Square (RMS)
 - Complex Power, Power Factor, Complex Power Loss in the Line
 - Inverters and Back-to-Back Converters
- Gas and Liquid Fuels: Gas Turbines and Combustion Engines
 - Natural Gas, Gas-Based Conversion
 - Internal Combustion Engines, Oil as Fuel for Power Generation
 - Alternative or Substitute Gas and Liquid Fuels, Alternative Turbines and Combustion Engines
 - Combined Heat and Power (CHP)
- Transformers and Three-Phase Circuits
 - Transformers
 - Three-Phase Power Systems
 - Power Quality: Harmonic Distortion
 - AC-DC and DC-AC Converters in Three-Phase Systems
- Power Systems and the Electric Power Grid
 - Electric Power Systems: Major Components, Distribution Bus
 - Transmission Line Models, Bus Admittance Matrix
 - Basics of Per Unit (P.U.) System, Power Flow
 - Demand, Daily Regime, Weekly Regime, Load–Duration Curve
 - Power Delivery: Environmental Relationships
- Hydroelectric Power Generation
 - Hydroelectric Power: Calculating Power
 - Types of Turbines
 - Hydro Power Design and Management, Environmental Interaction
 - Coastal Hydroelectric: Tidal and Wave Power
- Wind Resources and Wind Power
 - Wind: Driving Forces and Circulation Patterns
 - Wind Power, Statistics of Wind Speed
 - Wind Turbines, Wind Farms
 - Off-Grid and Microgrids, Distributed Generation
 - Environmental Considerations of Wind Power Generation
- Solar Power
 - Solar Resource
 - Photovoltaic (PV) Basics, PV Performance, Tilting the Panel and Sun Tracking
 - Solar Farms, Grid-Tie, Off-Grid, and Microgrids
 - Concentrating Solar Power (CSP)
 - Environmental Considerations of Solar Power Generation

Tentative Course Calendar

(PS=Problem Set)

Week	Date	Assessment	Topics- Activities	Chapter
1	8/29	ABET Survey	Energy and Power, conversion, electricity production	1
1	8/31		Intro to R and renpow, combustion, Fossil fuels	1, Appendix
2	9/5	PS due 9/6	Labor Day – University closed	
2	9/7	Quiz	Carbon Cycle, CO₂ emissions, Global temperature	2
3	9/12	PS due	Continued Carbon and energy and intro to DC sources	2,3
3	9/14	Quiz	DC circuits, sources, batteries, transients	3,5
4	9/19	PS due	Thermodynamics, 1 st law, paths, states	4
4	9/21	Quiz	Heat Engines, cycles, Carnot limit	4
5	9/26	PS due	Entropy 2nd law	6
5	9/28	Quiz	T-s plane, Fuel cells	6
6	10/3	PS due	AC Circuits, phasors, analysis, AC power	5
6	10/5	Quiz	RMS AC Power, Power Factor	8
7	10/10	PS due	Coal fired power plants, Steam based	7
7	10/12	Quiz	Nuclear, geothermal	7
8	10/17	PS due	Review for midterm exam	1-8,
		Nongraded		Appendix
		Quiz		
8	10/19		Midterm Exam	1-8,
				Appendix
9	10/24		Gas and oil, gas turbine, combustion engine	9
9	10/26		Landfill gas, microturbines, Stirling engines	9
10	10/31	PS due	Transformers	10
10	11/2	Quiz	Three phase, Harmonics	10
11	11/7	PS due	Electric power systems, the Grid	11
11	11/9	Quiz	Power flow, demand statistics	11
12	11/14	PS due	Water resources, Hydroelectric power, hydrology	12
12	11/16	Quiz	Tidal and wave energy	12
13	11/21	PS due	Wind resources, power, statistics	13
13	11/23	Quiz	Wind turbines	13
14	11/28	PS due	Solar resources	14
14	11/30	Quiz	Photovoltaics Solar CSP	14
15	12/5	PS due	Integration of renewables	
15	12/7	Non-graded	Review for Final	9-14
		Quiz		
Einala	12/15	ABET Survey	5	0.11
Finals	12/10	Final exam	Final Exam 8:00 -10:00 am	9-14

Course Policies

Syllabus Change Policy

Information provided in the syllabus is subject to change according to circumstances.

Grades

All grades for the course will be final. No extra credit assignments or work will be considered after the final grade has been recorded.

Attendance

Attendance to class is required. Please arrive on time and do not leave the classroom early unless you request my authorization to do so before the class starts. Being punctual and staying for the full period indicates our respect for others. Being late to class is sometimes inevitable. If you are late, know that you are welcome to join the class, but please do so without distracting others. More than two instances of tardiness will result in an absence from class.

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. 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) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider. 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.

Class Participation

Students are encouraged to participate during lectures.

Late Work

Problem sets are to be submitted by the due date and time. Late work is not accepted.

Examination Policy

Examinations (quizzes and exams) require Respondus LockDown Browser. Make sure you are logged on to Canvas and Respondus LockDown Browers at least 5 minutes before the examination start time to avoid last minute technical difficulties. Students will take the examinations individually but at the same time (per schedule) and are not allowed to work together or in teams while taking the examinations. No make-up examinations will be given.

Assignment Policy

Instructions, due dates, submittal format for each assignment will be given in Canvas. Consider submitting assignments ahead of the due date to avoid potential last minute technical difficulties, including server unavailability. If you experience technical difficulties at the due date and time, you should immediately contact the instructor and the Student Helpdesk helpdesk@unt.edu or 940.565.2324.

Instructor Responsibilities and Feedback

As an instructor I strive to help students learn, providing clear instructions for assessments, answering questions about assignments, identifying additional resources as necessary, providing grading information, reviewing and updating course content. I aim to return graded work to you within one week after the due date. Normally, I do my best to respond to Email questions within a 24-hour timeframe.

UNT policies

Rules of Engagement

Rules of engagement refer to the way students are expected to interact with each other and with their instructors. Here are some general guidelines:

- While the freedom to express yourself is a fundamental human right, any communication that
 utilizes cruel and derogatory language based on 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 will not be
 tolerated.
- Treat your instructor and classmates with respect in any communication, even when their opinion differs from your own.
- Speak from personal experiences. Use "I" statements to share thoughts and feelings. Try not to speak on behalf of groups or other individual's experiences.
- Use your critical thinking skills to challenge other people's ideas, instead of attacking individuals.
- Avoid using all caps while communicating digitally. This may be interpreted as "YELLING!"
- Be cautious when using humor or sarcasm in emails or discussion posts as tone can be difficult to interpret digitally.
- Avoid using "text-talk".
- Proofread and fact-check your sources.
- Keep in mind that online posts can be permanent, so think first before you type.

See these Engagement Guidelines (https://clear.unt.edu/online-communication-tips) for more information.

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. Examples of categories of academic dishonesty are:

- A. Cheating. The use of unauthorized assistance in an academic exercise, including but not limited to:
 - a. use of any unauthorized assistance to take exams, tests, quizzes or other assessments;
 - b. dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems or carrying out other assignments;
 - c. acquisition, without permission, of tests, notes or other academic materials belonging to a faculty or staff member of the University;
 - d. dual submission of a paper or project, or re-submission of a paper or project to a different class without express permission from the instructor;
 - e. any other act designed to give a student an unfair advantage on an academic assignment.
- B. Plagiarism. Use of another's thoughts or words without proper attribution in any academic exercise, regardless of the student's intent, including but not limited to:
 - a. the knowing or negligent use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgement or citation
 - b. the knowing or negligent unacknowledged use of materials prepared by another person or by an agency engaged in selling term papers or other academic materials.
- C. Forgery. Altering a score, grade or official academic university record or forging the signature of

- an instructor or other student.
- D. Fabrication. Falsifying or inventing any information, data or research as part of an academic exercise.
- E. Facilitating Academic Dishonesty. Helping or assisting another in the commission of academic dishonesty.
- F. Sabotage. Acting to prevent others from completing their work or willfully disrupting the academic work of others.

ADA Policy

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time; however, ODA notices of reasonable 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 reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the Office of Disability Access website (http://www.unt.edu/oda). You may also contact ODA by phone at (940) 565-4323.

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 and investigate such conductand 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.

Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets, and assignments submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom or Zoom

meeting and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's Code of Student Conduct (https://deanofstudents.unt.edu/conduct) to learn more.

Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail Eagle Connect (https://it.unt.edu/eagleconnect).

Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the SPOT website (http://spot.unt.edu/) or email spot@unt.edu.

Sexual Assault Prevention

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT's Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim's compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565- 2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at <a href="Ocenarios ocenarios ocenar

Use of Student Work

A student owns the copyright for all work (e.g. software, photographs, reports, presentations, and email postings) he or she creates within a class and the University is not entitled to use any student work without the student's permission unless all of the following criteria are met:

- The work is used only once.
- The work is not used in its entirety.
- Use of the work does not affect any potential profits from the work.
- The student is not identified.
- The work is identified as student work.

If the use of the work does not meet all of the above criteria, then the University office or department using the work must obtain the student's written permission.

Download the UNT System Permission, Waiver and Release Form

Transmission and Recording of Student Images in Electronically-Delivered Courses

- 1. No permission is needed from a student for his or her image or voice to be transmitted live via videoconference or streaming media, but all students should be informed when courses are to be conducted using either method of delivery.
- 2. In the event an instructor records student presentations, he or she must obtain permission from the student using a signed release in order to use the recording for future classes in accordance with the Use of Student-Created Work guidelines above.
- 3. Instructors who video-record their class lectures with the intention of re-using some or all of recordings for future class offerings must notify students on the course syllabus if students' images may appear on video. Instructors are also advised to provide accommodation for students who do not wish to appear in class recordings.
 Example: This course employs lecture capture technology to record class sessions. Students may occasionally appear on video. The lecture recordings will be available to you for study purposes and may also be reused in future course offerings.

No notification is needed if only audio and slide capture is used or if the video only records the instructor's image. However, the instructor is encouraged to let students know the recordings will be available to them for study purposes.

Academic Support and Student Services: Mental Health

UNT provides mental health resources to students to help ensure there are numerous outlets to turn to that wholeheartedly care for and are there for students in need, regardless of the nature of an issue or its severity. Listed below are several resources on campus that can support your academic success and mental well-being:

- <u>Student Health and Wellness Center</u> (https://studentaffairs.unt.edu/student-health-and-wellness-center)
- Counseling and Testing Services (https://studentaffairs.unt.edu/counseling-and-testing-services)
- UNT Care Team (https://studentaffairs.unt.edu/care)
- <u>UNT Psychiatric Services</u> (https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry)
- <u>Individual Counseling</u> (https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling)

Chosen Names

A chosen name is a name that a person goes by that may or may not match their legal name. If you have a chosen name that is different from your legal name and would like that to be used in class, please let the instructor know. Below is a list of resources for updating your chosen name at UNT.

- <u>UNT Records</u>
- UNT ID Card
- UNT Email Address
- Legal Name

*UNT euIDs cannot be changed at this time. The collaborating offices are working on a process to make this option accessible to UNT community members.

Pronouns

Pronouns (she/her, they/them, he/him, etc.) are a public way for people to address you, much like your name, and can be shared with a name when making an introduction, both virtually and in-person. Just as we ask and don't assume someone's name, we should also ask and not assume someone's pronouns. You can add your pronouns to your Canvas account so that they follow your name when posting to discussion boards, submitting assignments, etc.

Below is a list of additional resources regarding pronouns and their usage:

- o What are pronouns and why are they important?
- o How do I use pronouns?
- o How do I share my pronouns?
- o How do I ask for another person's pronouns?
- o How do I correct myself or others when the wrong pronoun is used?

Additional Student Support Services

- Registrar (https://registrar.unt.edu/registration)
- Financial Aid (https://financialaid.unt.edu/)
- Student Legal Services (https://studentaffairs.unt.edu/student-legal-services)
- Career Center (https://studentaffairs.unt.edu/career-center)
- Multicultural Center (https://edo.unt.edu/multicultural-center)
- Counseling and Testing Services (https://studentaffairs.unt.edu/counseling-and-testing-services)
- Pride Alliance (https://edo.unt.edu/pridealliance)
- <u>UNT Food Pantry</u> (https://deanofstudents.unt.edu/resources/food-pantry)

Academic Support Services

- Academic Resource Center (https://clear.unt.edu/canvas/student-resources)
- Academic Success Center (https://success.unt.edu/asc)
- UNT Libraries (https://library.unt.edu/)
- Writing Lab (http://writingcenter.unt.edu/)