Fall 2025, GEOG 4170¹

ENV 391: F, 9 AM—11:50 AM

Instructor: Prof. David Ferring

Office: ENV 320H

Email: david.ferring@unt.edu (**Always refer to this syllabus before you send an email)

Office hours: W 3:30-5 PM, F 1-2 PM, or by appointment via Zoom

(https://unt.zoom.us/j/83108273872)

Course Objectives and Overview

This course introduces geography students to various techniques used in gathering field data. It aims to provide a foundation for identifying, collecting, mapping, and recording human and environment data in the field. Students interested in human geography, ethnobiology, archeology, ecology, and physical geography, to name a few perspectives, will learn to systematically collect several types of data.

The first part of the course deals with *mapping*, a fundamental geographic activity. Students learn how to collect data with a clearly spatial dimension. Emphasis is placed on mapping small areas because data at this scale are usually what geographers do not already possess, and, therefore, need. Also, working at this scale gives students a first-hand appreciation for the processes involved in *systematically* collecting and *recording* data. Instruction during this part of the course is very focused; students are closely *supervised*.

The second part of the course focuses on the collection of various types of human and environmental data. Instruction during the second half of the semester is less supervised than in the first half. Students are given a great deal of *liberty* to hone their skills at making professional judgments.

The focus of this course is on landscapes, especially those that are material and visible. Instruction includes outdoor lectures and exercises. This course involves hands-on experience. **Students can expect to be hot, cold, dirty, and wet**. Research methods, project formulation, laboratory data analyses, and cartography are *not* part of this course. This course deals exclusively with outdoor data collection techniques.

Required Materials

Each student is required to have:

- 1. Two *Rite in the Rain Universal No. 353* <u>field books</u>. **No other hardback or stitched notebook models are acceptable.** The field books should be available at the UNT Bookstore or you can order one from Forestry Suppliers.
- 2. One small plastic protractor that can also be used as a ruler.
- 3. One small drafting compass.
- 4. One smart phone (with camera and calculator), or a camera and a calculator.

¹ The design of this course is derived from an existing syllabus of Dr. Matt Fry. I thank him for generously sharing his materials and advice on pedagogical practices.

Equipment

Various pieces of equipment, such as measuring tapes, Suunto compass/clinometers, and soil corers, will be used in this course. Students will be able to check-out/check-in equipment from the instructor/department during department office hours (8 AM-5 PM). **Any damage should be reported immediately and no later than when the equipment is checked-in**.

Grading

- This is not a remote course! All students are expected to attend every class, and, have read the Course Notes, and perhaps some Suggested Additional Readings, ahead of time.
- All students are expected to be active participants.
- Students will treat this course as though it were professional employment and they will treat each exercise as though it were a professional assignment or task.
- Every exercise will be due on the on the following class period. But you should aim to complete exercises during the assigned times.

Exercises will be graded on the following criteria:

- 1. Layout: title and information box, use of tabular pages, use of graphics pages;
- 2. Appearance: legibility, contrast/pencil, lines and lettering, overall neatness;
- 3. Data: sufficiency/extraneousness, accuracy/calculations;
- 4. Overall quality.

This is a course designed specifically for *advanced* geography undergraduate or graduate students who anticipate that one day they may need to gather data first-hand. Accordingly, all students are expected to be *mature*, *industrious*, *highly self-motivated*, and *enthusiastic*.

Assigned work will involve several exercises to be completed in small groups, often outside of class hours, and usually within one week of when they are begun. Each student will be responsible for recording exercise data in their own field notebook. Students will record exercise data in one book while the instructor grades the previously completed exercise recorded in the other. Each student will maintain a photographic record consisting of two photos of each exercise. One photo will be of the student actively working, and one will be of a topical nature, illustrating some aspect of the exercise. Students should take their own photos as shared photos will be docked a letter grade. Toward the end of the semester an album will be prepared with complete captions. The albums will be graded as Exercise 14.

Course Notes and Suggested Additional Readings constitute part of this course. A comprehensive final examination covering the Course Notes, material presented in class, and lessons learned during the exercises will be administered at the end of the semester.

15% = Participation (attendance, enthusiasm, and continuous improvement)

75% = Completion of, and performance on, exercises

10% = Final examination

Accommodations

"The University of North Texas makes reasonable academic accommodation 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 you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You 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 Office of Disability Accommodation. You may also contact them by phone at 940.565.4323."

Academic Dishonesty and Integrity

Students are expected to uphold the University of North Texas Code of Student Conduct. It is dishonest and a violation of student academic integrity to:

1) PLAGIARIZE, 2) CHEAT ON AN EXAMINATION, 3) COPY OR COLLABORATE ON ASSIGNMENTS WITHOUT PERMISSION, 4) FABRICATE OR FALSIFY DATA OR RECORDS, and 4) ENGAGE IN OTHER FORMS OF DECEIT OR DISHONESTY

Students caught cheating or plagiarizing will receive a "0" for that particular assignment or exam. Additionally, the incident will be reported to the Office of Student Rights and Responsibilities for further penalty.

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 and the instructor may refer the student to the Center for Student Rights and Responsibilities to consider whether the student's conduct violated the Code of Student Conduct found at www.unt.edu/csrr.

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.

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 oeo@unt.edu or at (940) 565 2759.

Tentative Course Schedule**

**course schedule is subject to change

| Aug 2 | 22 | Introduction | |
|--------|----|---------------------------------------|--------|
| | | Before Heading Out | |
| | | Base Maps and Aerial Images | |
| | | Recording Data | |
| | | Measuring Distances | Ex. 1 |
| Aug 2 | 29 | Tying-into a Baseline | Ex. 2 |
| Sept 5 | 5 | Tying-into a Datum by Triangulation | Ex. 3 |
| Sept 1 | L2 | Compass/Tying-into a Datum by Azimuth | Ex. 4 |
| Sept 1 | L9 | Conducting a Traverse | Ex. 5 |
| Sept 2 | 26 | Hand Leveling | Ex. 6 |
| Oct 3 | 3 | Vertical Distances (clinometer) | Ex. 7 |
| Oct 1 | LO | Sampling Procedures | Ex. 8 |
| Oct 1 | L7 | Describing Soils | Ex. 9 |
| Oct 2 | 24 | Measuring Erosion | Ex. 10 |
| Oct 3 | 31 | Vegetation | Ex. 11 |
| Nov 7 | 7 | Land Use and Landscape Analysis | Ex. 12 |
| Nov 1 | L4 | Plotting Past Places Part I | Ex. 13 |
| Nov 2 | 21 | Research Day | |
| Nov 2 | 28 | Thanksgiving – No Class | |
| Dec 5 | 5 | Plotting Past Places Part II | Ex. 14 |
| Dec 1 | LO | Final Exam | |
| Dec 1 | 12 | Make-Up Field Day | |