Field Camp I GISC 2250
School of Engineering and Computing Sciences
Geographic Information Science Program
Spring 2020
January 5, 2020 to January 10, 2020

A. COURSE INFORMATION
Course number/section: GISC-4350.201
Class meeting time: January 05 – January 10, 2020
Class location: Sid Bouse’s Port Bolivar Ranch
Course Website: N/A

B. INSTRUCTOR INFORMATION
Instructor: Mr. Sid Bouse, RPLS, LSLS
Office location: 3701 Highway 87 Port Bolivar, Texas
Office hours: N/A
Telephone: 409-771-5544
e-mail: sid@surveygalveston.com
Appointments: N/A

C. COURSE DESCRIPTION
Catalog Course Description
A one-week field camp with intensive field data collection and computations. Traversing between control points. Digital contour data and leveling control. Detail spatial data by total station. Construction set out using total station and steel band. Classroom instruction and discussion of the legal aspects and expectations of field personnel. Taken during the sophomore or junior year. Spring. Prerequisite: GISC 2470.

D. PREREQUISITES AND COREQUISITES
Prerequisites
GISC 2470 - Geospatial Plane Measurement I

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES
Required Textbook(s)
by Charles D. Ghilani and Paul R. Wolf
Supplies
Bring your own field book, calculator, laptop, and writing materials.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT
Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

By the end of this course, students should be able to:
1. Gain hands on field time using conventional equipment to perform a boundary survey and topography.
2. Understand basic surveying techniques in property boundary research and recovery, field traverse, and data collection, and field note keeping.
3. Work with the supervision of several Registered Professional Land Surveyors and gain understanding of the fieldwork and office process required to produce a survey.

G. INSTRUCTIONAL METHODS AND ACTIVITIES
Students will be guided under the instruction of several volunteer Registered Professional Land Surveyors in the undertaking of the survey of part of the Johnson Family Ranch. The survey will consist of research at the Galveston County Courthouse to undertake research required to perform a proper survey investigation. Students will undertake a field survey to measure and determine retracement of a previous survey. Field measurements along with all metadata will be recorded in each student field book. Computations of field data reductions should also be recorded. Each student is required to produce the following submittals for grading:

A. Survey plat (example provided) - each student must prepare a survey plat of the subject property including the following minimum requirements:
   - perimeter boundary with bearings, distances, and curve data that will produce an acceptable closure and area of the land parcel.
   - title block on the plat that includes reference to record deeds, area, original survey and County.
   - available adjoining property references
   - north arrow, scale, and bearing source
   - statement: "Preliminary survey, not to be recorded or relied upon for any purpose"

B. Legal Description (Field Notes - example provided) - each student must prepare a "word" document with the metes and bounds description of the property depicted on the survey plat.
C. Survey Report (example provided) - each student must prepare a Survey Report reflecting the process used during the week to research, perform fieldwork, analyze and deliver the complete boundary survey package to the client (Instructor).

H. MAJOR COURSE REQUIREMENTS AND GRADING

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courthouse Research</td>
<td>5</td>
</tr>
<tr>
<td>Fieldwork participation</td>
<td>20</td>
</tr>
<tr>
<td>Computations and analysis</td>
<td>15</td>
</tr>
<tr>
<td>Final fieldbooks</td>
<td>35</td>
</tr>
<tr>
<td>Legal Description</td>
<td>15</td>
</tr>
<tr>
<td>Survey Reports</td>
<td>10</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100</td>
</tr>
</tbody>
</table>

I. COURSE CONTENT/SCHEDULE

<table>
<thead>
<tr>
<th>DATE (BY DAY OR WEEK)</th>
<th>TOPIC</th>
<th>CHAPTER(S)</th>
<th>ASSIGNMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday 01/05/2020</td>
<td>Arrival date for students at Sid Bouse’s Sea Ranch Form working groups</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monday 01/06/2020 8 AM-12</td>
<td>Students will review instructions for traverse, levels, detail survey, and requirements for final survey reports and plans. Open discussion of surveying responsibilities and expectations with 3 RPLS/LSLS surveyors.</td>
<td>Chapter 21</td>
<td></td>
</tr>
<tr>
<td>Day</td>
<td>Date</td>
<td>Time</td>
<td>Activity</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
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<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Monday</td>
<td>01/07/2020</td>
<td>1-5 PM</td>
<td>Checks on survey equipment Crews will be formed. Field reconance traverse or levels planning, setup and procedures discussed.</td>
</tr>
<tr>
<td>Tuesday</td>
<td>01/08/2020</td>
<td>8 AM-5 PM</td>
<td>Field Work: The traverse survey will begin using conventional traverse equipment.</td>
</tr>
<tr>
<td>Wednesday</td>
<td>01/11/2017</td>
<td>8 AM-12</td>
<td>Field work and curve work</td>
</tr>
<tr>
<td>Wednesday</td>
<td>01/11/2016</td>
<td>1-9 PM</td>
<td>Continuation of field work not completed. Weather permitting Polaris observation discussion and fieldwork</td>
</tr>
<tr>
<td>Thursday</td>
<td>01/12/2016</td>
<td>8 AM-12</td>
<td>Final Survey started and reviewed. Stakeout procedures</td>
</tr>
<tr>
<td>Thursday</td>
<td>01/12/2016</td>
<td>1-5 PM</td>
<td>GPS and Coordinate Systems</td>
</tr>
<tr>
<td>Friday</td>
<td>01/13/2016</td>
<td>8 AM-5 PM</td>
<td>Resolution and review of survey data. Level loop through traverse and stake grade breaks. Clean up camp.</td>
</tr>
</tbody>
</table>

Note: This schedule will allow each student a minimum of 8 hours of classroom instruction in 4-hour blocks with an optional additional 4 hours on Friday morning. This optional classroom time may depend on weather situations and the progress of the evening analysis class.

Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and submissions shown are directly related to the Student Learning Outcomes described in Section F.

**J. COURSE POLICIES**

**Attendance/Tardiness**
Attendance at all times is compulsory

**Late Work**
Late work will not be graded.

**Participation**
Participation in all activities is compulsory.

**Others**
The camp must be clean and tidy before leaving on Friday.

**K. COLLEGE AND UNIVERSITY POLICIES**

- **Academic Integrity (University)**
  It is expected that university students will demonstrate a high level of maturity, self-direction, and ability to manage their own affairs. Students are viewed as individuals who possess the qualities of worth, dignity, and the capacity for self-direction in personal behavior.
  See Full University Policy at [http://catalog.tamucc.edu/content.php?catoid=10&navoid=313#Academic_Integrity](http://catalog.tamucc.edu/content.php?catoid=10&navoid=313#Academic_Integrity)

- **Classroom/Professional Behavior**
  - Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

- **Deadline for Dropping a Course with a Grade of W (University)**
  The grade of W will be assigned to any student officially dropping a course. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must be completed. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar ([http://www.tamucc.edu/academics/calendar/](http://www.tamucc.edu/academics/calendar/)) for the last day to drop a course.

- **Grade Appeals (College of Science and Engineering)**
  As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade
is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at [http://www.tamucc.edu/provost/university_rules/index.html](http://www.tamucc.edu/provost/university_rules/index.html), and the College of Science and Engineering Grade Appeals webpage at [http://sci.tamucc.edu/students/GradeAppeal.html](http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disability Services**
  Disability Services (DS) is the hub for coordinating services and accommodations to ensure accessibility and utilization of all programs for all Texas A&M University-Corpus Christi students with disabilities. Our services are designed to meet the unique educational needs of enrolled students with documented permanent or temporary disabilities. DS provides intake and consultation services to students seeking to register with our office. DS reviews an individual’s documentation of disability and assesses eligibility for services and the determination of reasonable accommodations. For more information visit the Disability Services Office at 116 Corpus Christi Hall or go to [http://disabilityservices.tamucc.edu/](http://disabilityservices.tamucc.edu/)

**GENERAL DISCLAIMER**
I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.