

## **Course Syllabus**

### **Surveying I with Lab – CIV 150/151**

Instructor: Kevin D. Franklin, MS, PLS

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Class Location: B 107

Class Time: Fridays 11:30 - 4

Office Hours: By appointment

**Registrar's Course Description:** *This course introduces the student to the proper use and care of surveying equipment used in making linear and angular measurements, including tapes, transits, theodolites, levels, and total stations. This leads to the development of the basic principles of traversing as it relates to boundary surveying. The laboratory will familiarize the student with the proper use and care of the common instruments used by the surveying profession. The use of the equipment is then applied to a boundary traverse.*

**Materials Required:** Students should be prepared for each session with the following items:

- Textbook - *Elementary Surveying, An Introduction to Geomatics*, Ghilani
- Basic calculator (Texas Instruments TI-30 or similar)
- Engineer's field book
- Engineering scale and compass
- Weather-appropriate clothing for outdoor labs
- Bringing a laptop to class is encouraged but not required

**Schedule:** See attached preliminary schedule. Please note that lecture/lab schedule is subject to change in order to maximize available daylight hours, depending on weather conditions and other unforeseen events.

**Grading:** The Surveying I lab course (CIV 151, 1.5 credits) has a separate grade from the Surveying I lecture (CIV 150, 3.0 credits). The student's lab grade will be based upon the lab reports. Some lab activities may run for multiple lab sessions. The student's lecture grade will be based upon 3 exams, ad hoc quizzes, and weekly homework assignments.

**Attendance:** Attendance is mandatory. If you need to miss a class for emergency reasons, it is your responsibility to make up the missed material and assignments. Given the once-per-week meeting schedule, missing multiple (more than 1) class sessions makes it extremely difficult to successfully complete the course.

**Late Work:** Late work is not accepted without prior approval from the instructor. Students are expected to immediately contact the instructor if they do not turn in an assignment on time to avoid getting a "0" for the assignment.

**Academic Integrity** – Lab data may be generated by a group of students working as a "field crew". Lab reports shall be the responsibility of each individual student. Using the work of others without giving proper credit (plagiarism), or academic dishonesty (as defined by the Student Handbook) is unacceptable. After evaluation of the infraction(s) in a manner consistent with the Student Handbook, a grade of "0" may be assigned.

**Lab Policies:** Cell phones and other electronic devices must be kept off and out of sight. No texting is permitted. Students are expected to have a calculator separate from their cell phone. Language and behavior that is disrespectful or disruptive to others is unacceptable. Students should refer to the Student Handbook for additional important school policies.

**Disabilities** – If you have a visible or hidden disability that may require classroom or test taking modifications you are encouraged to contact Student Services for assessment.

**Digication Statement:** All students are required to maintain a learning portfolio in Digication that uses the Three Rivers Template. Through this electronic tool, students can see their own growth in college-wide learning. The student can keep and continue to use the Digication account after graduation. A Three Rivers General Education Assessment Team will select random works to improve the college experience for all. No names will be attached to the assessment work; it will remain **private and anonymous** for college improvement purposes. The instructor will indicate recommended Digication assignments.

**BOARD OF REGENTS FOR HIGHTER EDUCATION AND CONNECTICUT STATE COLLEGES AND UNIVERSITIES POLICY REGARDING SEXUAL MISCONDUCT REPORTING, SUPPORT SERVICES AND PROCESSES POLICY: Statement of Policy for Public Act No. 14-11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:** “The Board of Regents for Higher Education (BOR) in conjunction with the Connecticut State Colleges and Universities (CSCU) is committed to insuring that each member of every BOR governed college and university community has the opportunity to participate fully in the process of education free from acts of sexual misconduct, intimate partner violence and stalking. It is the intent of the BOR and each of its colleges or universities to provide safety, privacy and support to victims of sexual misconduct and intimate partner violence.”

**UNITED STATES DEPARTMENT OF EDUCATION AND OFFICE OF CIVIL RIGHTS TITLE IX STATEMENT OF POLICY:** “Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in education programs and activities in federally funded schools at all levels. If any part of a school district or college receives any Federal funds for any purpose, all of the operations of the district or college are covered by Title IX.

Title IX protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students (as well as other persons) at recipient institutions are protected by Title IX – regardless of their sex, sexual orientation, gender identity, part-or full-time status, disability, race, or national origin-in all aspects of a recipient’s educational programs and activities.”

If any student experiences sexual misconduct or harassment, and/or racial or ethnic discrimination on Three Rivers Community College Campus, or fears for their safety from a threat while on campus, please contact Edward A. Derr, the Diversity Officer and Title IX Coordinator:

Edward A. Derr  
Title IX Coordinator and Diversity Officer  
Admissions Welcome Center \* Office A116  
574 New London Turnpike, Norwich CT 06360  
860.215.9255 \* [EDerr@trcc.comnet.edu](mailto:EDerr@trcc.comnet.edu)

**TENTATIVE SCHEDULE:**

<i>September 1, 2017</i>	Course goals and outcomes, review syllabus, history and origins, pacing lab
<i>September 8, 2017</i>	Angles and distances, units of measure, equipment setup lab
<i>September 15, 2017</i>	Coordinate systems, total station observations (sideshot lab)
<i>September 22, 2017</i>	Spreadsheet applications for data reduction, direct and indirect problem
<i>September 29, 2017</i>	Exam I, three wire leveling lab
<i>October 6, 2017</i>	Trigonometric leveling
<i>October 13, 2017</i>	Community service project?
<i>October 20, 2017</i>	Traverse methods and procedures, traverse lab 1
<i>October 27, 2017</i>	Traverse data reduction, traverse lab 2
<i>November 3-4, 2017</i>	CALS Meeting – Rocky Hill
<i>November 10, 2017</i>	Exam II, Construction surveys, plot plan lab
<i>November 17, 2017</i>	Land use and planning, subdivision lab
<i>November 24, 2017</i>	Thanksgiving holiday - college closed
<i>December 1, 2017</i>	Traversing, continued
<i>December 8, 2017</i>	Software applications, remote sensing, GIS
<i>December 15, 2017</i>	Exam III, final traverse review