



Spring 2024 Syllabus

Course:

SURV-2L (54706) Advanced Land Surveying Lab (credit for 1 unit)

SURV-302L (54707) Advanced Land Surveying Lab (noncredit for 0 units)

Time/ Location: Saturdays (01/20; 02/3; 02/24; 03/09; 03/23; 04/13; 05/11) 8:00AM to 3:30PM
FNR 7

Instructor:

Lyn Bockmiller

Office: Tutorial Center

Office Hours: By appointment

Office hours are a good time to ask questions about the Labs if you have questions or problems understanding the concepts or skills associated with the Labs.

Phone: (559) 905-6162

Email: lyn.bockmiller@reedleycollege.edu

Important Dates:

See this website for all important dates:

<https://www.reedleycollege.edu/academics/academic-calendar.html>

First day of Spring 2024 semester: 01/08/2024

Deadline to drop for full refund: 01/19/2024

Deadline to add or drop the class to avoid a "W" (withdrawal): 01/28/2024

Last day to drop a full-term class (letter grades assigned after this date): 03/08/2024

No class: 01/15; 02/16; 02/19; 03/25-29

Final Exam: Saturday, May 11, 2024 8:00AM to 3:00PM FNR 7

Materials: Field Books

Description: This course presents advanced concepts in land surveying field practices and equipment use. It also includes horizontal and vertical curves, and topography. **PREREQUISITES:** Surveying1 or 301 and Surveying 1L or 301L. **COREQUISITES:** Surveying 2 or 302. (A, CSU)

Repeatability: SURV-2L may not be repeated after successful completion. SURV-302L is repeatable even after successful completion.

Course Objectives: In the process of completing this course, students will:

1. Demonstrate proper procedures for the use and handling of surveying equipment.
2. Establish and measure control for common surveys.
3. Establish and measure horizontal curves using the appropriate surveying methods and equipment.

4. Establish and measure vertical curves using the appropriate surveying methods and equipment.
5. Execute a topographic mapping survey and create a topographic map.

Course Outcomes: Upon completion of this course, students will be able to:

1. Apply advanced surveying theory using the appropriate surveying equipment.
2. Collect accurate field measurements.

Grading: Letter grades are given for SURV-2L. Pass/No Pass grades are given for SURV-302L. Current grades will be available to students throughout the semester on *Canvas*. Final grades will be calculated as follows:

SURV-302L	
Pass (Y)	$\geq 70\%$;
No Pass (NP)	$< 70\%$

SURV-2L	
A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	$< 60\%$

Weight/Categories	
15%	Final Exam
35%	Exams
50%	Skills Demonstrations

Exams: The date for exams will be announced in advanced. The purpose of exams is to assess learning and teaching. The lowest exam score will be dropped.

Cheating and Plagiarism: You will receive no credit for an assignment or exam if in the opinion of the instructor you have cheated or plagiarized. Academic Dishonesty is reported to the Dean's office.

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another's work, supplying one's work to another, giving or receiving copies of examinations without an instructor's permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

Plagiarism is a specific form of cheating: the use of another's words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing

to provide complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or failing to observe computer security systems and software copyrights. Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on the particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.

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Class Participation: Your active participation is key to your success. Some examples of what you will be expected to do include active listening, notetaking, partner and group discussions, and presentations.

Accommodations for students with disabilities: If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact the instructor as soon as possible.

Schedule (subject to change):

Week	Reading	Lecture and Field Exercise
2	CHAPTER 2 & 8	Field Notes, Distances and Total Station Review
4	CHAPTERS 24 & 25	Layout Horizontal and Vertical Curves
7	CHAPTERS 9 & 10	Control Networks, Leveling, Traversing and Adjustments
9	CHAPTERS 17 & 18	Topographic Data Collection and Mapping
11	CHAPTERS 21 & 22	Boundary and Public Lands Surveys
14	CHAPTERS 13-15	GPS Systems and Control Networks
17	FINAL EXAM	Multiple Field Exercises