



Basic Course Information

Semester:	Fall 2021	Instructor Name:	David Shelton
Course Title & #:	ELTT 104	Email:	dgshelton@iid.com
CRN #:	10463	Webpage (optional):	Imperial.edu
Classroom:	ONLINE	Office #:	760-427-8590
Class Dates:	18 Aug 2021 – 11 Dec 2021	Office Hours:	
Class Days:	W	Office Phone #:	
Class Times:	4:30-8:30pm	Emergency Contact:	
Units:	4	Class Format:	CANVAS ONLINE

Course Description

An introduction to framing, setting, guying poles, installation of conductors and grounds, and the laying out and constructing of an underground line system

Course Prerequisite(s) and/or Corequisite(s)

Successful completion of

ELTT 103

with a "C" or better.

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. understand industry rules, regulations, and safety standards. (ILO1, ILO2, ILO3)
2. describe the various parts of a distribution power pole including but not limited to crossarms, deadend arms, insulators, transformers, and down guys. (ILO2, ILO3)
3. understand the function of overhead transformers including three phase hookups, analyze transformer construction, and discuss application to Imperial Irrigation District standards and the utility industry. (ILO2, ILO3)

understand underground primary voltage connections including; 600 amp tee bodies, 200 amp elbows, and quick terms used in transitioning from underground to overhead feeds. (ILO2, ILO3)



Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Practice standard safety procedures appropriate to the power utility industry.
2. Recognize and deal appropriately with hazardous materials in the power utility industry.
3. Assemble and install crossarms, pins, and insulators.
4. Demonstrate the procedures for splicing, sagging, and tying in conductors.
5. Unload, frame, and haul poles in a safe manner.
6. Demonstrate the method of splicing and pulling cable.
7. Recognize and explain safe manhole/vault construction practices.
8. Demonstrate basic knowledge in underground residential systems.

Textbooks & Other Resources or Links

- Shoemaker, Thomas M. and James E. Mack (2012). *The Lineman's and Cableman's Handbook* (12th/e). New York McGraw-Hill. ISBN: 978007174580

NJATC (2007). *Transformation for Lineworkers* (2nd/e). Alexander. ISBN: B0024KX8XA

Course Requirements and Instructional Methods

Class Activity

Presentations

Essay

Mid-Term/Final Exam(s)

Oral Assignments

Quizzes

Written Assignments

Audio Visual

Computer Assisted Instruction

Demonstration

Discussion

Lecture

Course Grading Based on Course Objectives

90-100% = A
80-89% = B
70-79% = C
60-69% = D
Below 60% = F

There are 7 quizzes (10 pts. each) =70
16 overview classes worth 80 pts. =80
1 mid-term (25 pts.) =25
1 final exam. (100 pts.) =25

Total of pts. 200 Total accumulated points are divided by 200 to arrive at percentage score.

Academic Honesty

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the IID policy and procedures 4530 for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See [General Catalog](#) for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **Food and Drink** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the [General Catalog](#).
- **Children in the classroom:** Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.

Online Etiquette

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].
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Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visitor click the heart icon in Canvas.



Anticipated Class Schedule/Calendar

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1	Syllabus & Introduction	
Week 2	104 and handbook Materials will be assigned each week on canvas	
Week 3	4103 and handbook Materials will be assigned each week on canvas	Quiz
Week 4	104 and handbook Materials will be assigned each week on canvas Presentations	
Week 5	104 and handbook Materials will be assigned each week on canvas Presentations	
Week 6	104 and handbook Materials will be assigned each week on canvas Presentations	Quiz
Week 7	104 and handbook Materials will be assigned each week on canvas Presentations	
Week 8	104 and handbook Materials will be assigned each week on canvas Midterm	
Week 9	104 and handbook Materials will be assigned each week on canvas	Quiz
Week 10	104 and handbook Materials will be assigned each week on canvas	
Week 11	104 and handbook Materials will be assigned each week on canvas	Quiz
Week 12	104 and handbook Materials will be assigned each week on canvas Presentations	
Week 13	104 and handbook Materials will be assigned each week on canvas	Quiz



IMPERIAL VALLEY COLLEGE

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 14	104 and handbook Materials will be assigned each week on canvas Presentations	
Week 15	104 and handbook Materials will be assigned each week on canvas Presentations	Quiz
Week 16	FINAL	

*****Subject to change without prior notice*****