Basic Course Information

Semester:	FALL 2019	Instructor Name:	Timothy J Dickerson
Course Title & #:	ELTT 104	Email:	tjdickerson@iid.com
CRN #:	10969	Webpage (optional):	
Classroom:	LQ Computer Lab	Office #:	760-398-5884
Class Dates:	August 20 to December 10	Office Hours:	8:00am to 3:00pm
Class Days:	Mondays	Office Phone #:	<mark>760-801-9304</mark>
Class Times:	4:00pm to 8:00pm	Emergency Contact:	760-801-9304
Units:	4		

Course Description

Instruction in maintenance line distribution and underground line maintenance. (Nontransferable, AA/AS degree only)

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

Successful completion of ELTT103

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. (ILO2, ILO3)
- 2. understand line trucks, derricks, digging equipment, and bucket trucks, there uses, and safety when using equipment. (ILO2, ILO3)
- 3. understand and describe the overhead distribution system including delta and wye connections, cutouts, switches, reclosers, sectionalizers, capacitors, and voltage regulators. (ILO1, ILO2, ILO3)

understand the various troubleshooting techniques on underground and overhead transformers, and cable fault location. (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. Limited knowledge of the operation of a bucket truck, digger derrick, backhoe, and trencher (Book work only no hands on operation).
- 4. Demonstrate the method(s) of connecting pole top transformers (single-phase and three phase)

Page 1 of 8 Updated: Fall 2019 5. Analyze and explain the procedures for troubleshooting and replacement of faulty pole top transformer components; i.e., cutouts, switches, capacitors, and voltage regulators. Explain the procedures in locating cable fault sites.

Textbooks & Other Resources or Links

- ELTT 104 Transmission & Distribution
- ELTT 102 Transmission & Distribution
- Imperial Irrigation District Lineman Apprenticeship Training Program Handbook 1990. *Electrical Lineman Training Committee* Imperial Irrigation District
- NJATC 2007. Transformation for Lineworkers 2nd. Alexander ISBN: B0024KX8XA.
- Shoemaker, Thomas M. and James E. Mack 2017. *The Lineman's and Cableman's Handbook* 13th. New York. McGraw-Hill ISBN: 9780071850032.

Course Requirements and Instructional Methods

CLASS ACTIVITY:

Essay

Mid-TermOne Mid-Term50 pointsFinal Exam(s)One Final Exam50 points

Objective Two Presentations 10 Points (each)

Oral Assignments

Problem Solving Exercise

Quizzes Three Quizzes 20 points (each)

Skill Demonstration

Written Assignments Two Essays (1)-OSHA 10 points (1)- Safety 10 points

INSTRUCTIONAL METHODOLOGY:

Audio Visual
Discussion
Group Activity
Individual Assistance
Lecture
Simulation/Case Study

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2)hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

Page 2 of 8 Updated: Fall 2019

Course Grading Based on Course Objectives

Provide detailed information related to grading practices and grading scale, including values and totals. Consider adding final grade calculation, rubrics, late assignment policy, and other grading practices.]

GRADING SCALE

Percent Range	Grade	Description
90-100%	Α	Excellent
80-89%	В	Good
70-79%	С	Satisfactory
60-69%	D	Below Satisfactory
59 & Below	F	Fail
	I	Incomplete

TOTAL POINTS POSSIBLE: (150)

(based on scored class activities)

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.

Page 3 of 8 Updated: Fall 2019 • Children in the classroom: Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.

Online Netiquette

- 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 (!!!!)].

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 General Catalog 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.

Additional Student Services

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

• CANVAS LMS. Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: Canvas Student Login. The Canvas Student Guides Site provides a variety of

Page 4 of 8 Updated: Fall 2019

- support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- Learning Services. There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your Campus Map for the Math Lab; Reading, Writing & Language Labs; and the Study Skills Center.
- Library Services. There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **Student Health Center**. A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC Student Health Center at 760-355-6128 in Room 1536 for more information.
- Mental Health Counseling Services. Short-term individual, couples, family and group counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information..

Veteran's Center

The mission of the IVC Military and Veteran Success Center is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.

Extended Opportunity Program and Services (EOPS)

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, personal/academic counseling, tutoring, book vouchers, and community referrals to qualifying low-income students. EOPS is composed of a group of professionals ready to assist you with the resolution of both academic and personal issues. Our staff is set up to understand the problems of our culturally diverse population and strives to meet student needs that are as diverse as our student population.

Also under the umbrella of EOPS our CARE (Cooperative Agency Resources for Education) Program for single parents is specifically designed to provide support services and assist with the resolution of issues that are particular to this population. Students that are single parents receiving TANF/Cash Aid

Page **5** of **8** Updated: **Fall 2019**

assistance may qualify for our CARE program, for additional information on CARE please contact Lourdes Mercado, 760-355-6448, lourdes.mercado@imperial.edu.

EOPS provides additional support and services that may identify with one of the following experiences:

- Current and former foster youth students that were in the foster care system at any point in their lives
- Students experiencing homelessness
- Formerly incarcerated students

To apply for EOPS and for additional information on EOPS services, please contact Alexis Ayala, 760-355-5713, <u>alexis.ayala@imperial.edu</u>.

Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.
- The Student Equity Program also houses IVC's Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

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.

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC Library Department provides numerous Information Literacy Tutorials to assist students in this endeavor.

Page 6 of 8 Updated: Fall 2019

Anticipated Class Schedule/Calendar

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1	Syllabus & Introduction	Tugos/ Duo Ducos/ Tosas
August 22	ELTT 102 line trucks and digger derricks	ELTT 102
Week 2	ELTT 102 line trucks and digger derricks	
August 29	Hazardous Materials	ELTT 102
Week 3	ELTT 102 Introduction to Bucket Trucks Pre-Use-	
September 5	Safety-Inspections- Placement	ELTT 102 Quiz
Week 4	ELTT 102 Bucket trucks Operation	
September 12	Material Handling Bucket trucks	ELTT 102
	Back Hoes and Trenchers	
		ELLT 102
Week 5	Fall Protection use and Inspection-Safety—Written	
September 19	assignment	Cal/OSHA
Week 6	ELLT 104 Cable fault location unit 1	
August 26	Presentations	ELTT 104/Quiz
Week 7	ELTT 104 Cable Fault Location unit 2	
October 3	Presentations	ELTT 104
Week 8	Mid-Term	
October 10		
Week 9	ELTT 104 Pole Top Equipment Replacement 1	
October 17	Low Voltage Safety	ELTT 104
Week 10	ELTT 104 Pole Top Equipment Replacement 1	
October 24		
	High Voltage Safety	ELTT 104
Week 11	ELTT 104 Pole Top Equipment Replacement 2	
October 31		ELTT 104
Week 12	ELTT 104 Pole Top Equipment Replacement 2	ELIT 104
November 7	ELTT 104 Fole Top Equipment Replacement 2	
November /		ELTT 104
Week 13	ELTT 104 Overhead Distribution Systems	
November 14	Transformer connections	
		ELTT 104/Quiz
Week 14	ELTT 104 Overhead Distribution Systems	, ,
November 21	Transformer connections -Presentations	ELTT 104
Week 15	ELTT 104 Overhead Distribution Systems	
December 5	Transformer connections -Presentations	ELTT 104
Week 16	Final Exam	
December 12		

Page 7 of 8 Updated: Fall 2019 ***Tentative, subject to change without prior notice***