

Basic Course Information

Semester	Fall 2016	Instructor Name	David G. Shelton
Course Title & #	ELTT 103 Electrical Trades III	Email	dgshelton@iid.com
CRN #	10865	Webpage (optional)	
Room	IID Mechanical Classroom LAB	Office	
Class Dates	August 17 – December 7, 2016	Office Hours	
Class Days	Wednesday	Office Phone #	
Class Times	4:00-8:00pm	Office contact if student will be out or emergency	760-427-8590
Units	4.00		

Course Description

An introduction to Underground Line Maintenance, Electrical Safety, installation of conductors and grounds, and the laying out and constructing of an underground line system. (Nontransferable, AA/AS degree only)

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 URD system including but not limited to Cables, Transformers and Trenching. (ILO2, ILO3)
3. Understand the function of transformers including three phase hookups, and discuss application to standards and the utility industry. (ILO2, ILO3)
4. 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

MEASURABLE COURSE OBJECTIVES AND MINIMUM STANDARDS FOR GRADE OF “C”:

1. Upon satisfactory completion of the course, students will be able to (these objectives are subject to change):
 1. Practice standard safety procedures appropriate to the power utility industry.
 2. Recognize and deal appropriately with hazardous materials in the power utility industry.
 4. Understand and recognize substation equipment.
 5. Demonstrate the method of splicing and pulling cable.
 6. Recognize and explain safe manhole/vault construction practices.
 7. Demonstrate basic knowledge in underground residential systems.

Textbooks & Other Resources or Link

Shoemaker, Thomas M. and James E. Mack (2012). The Lineman's and Cableman's Handbook (12th/e). New York McGraw-Hill. ISBN: 9780071742580

Course Requirements and Instructional Methods

Assignments are designed to elicit your demonstration of critical thinking, understanding and application of the course concepts, and your proficiency in the subject matter.

Required Activities or Assignments Points

1. Homework, Assignments: 25

2. Quizzes: 25

2. Mid-Term Exam: 25

4. Final Exam: 25

Teaching Methods: Discussion of assignments and instructional methods will be a combination of all methods of instruction, which can be classified as telling, lecturing, or discussing; showing or demonstrating.

Out of Class Assignments:

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.

Course Grading Based on Course Objectives

The course grade is based on total points accumulated during the semester. There is a maximum of 100 points. Very limited extra credit points may be available, either through some class participation activity, group work or perfect attendance. Failing to turn in regular assignments will stop you from being able to earn extra credit points and late assignments will have points subtracted.

Final Grades are calculated as follows:

Points	Grade
90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

Grading Rubrics: In addition to the percentages and points listed above the following grading rubric (standards expected) will be used when grading student assignments. The description that best fits your work will be the assigned grade.

Grade

Rubric or Standard Expected

A-Focused and clearly organized. Contains advanced critical thinking and analysis. Convincing evidence is provided to support conclusions. Clearly meets or exceeds assignment requirements.

B-Generally focused with some development of ideas, but may be simplistic or repetitive. Evidence is provided to support conclusions. Occasional grammatical errors. Meets assignment requirements, but does not exceed.

C-Unfocused, underdeveloped, or rambling, but has some coherence. Minimal evidence is provided to support conclusions. Several grammatical errors. Meets minimum assignment requirements.

D-Unfocused, underdeveloped, and/or rambling. Limited evidence is used to support conclusions. Serious grammatical errors that impede overall understanding. Does not address the assignment requirements

F-Unfocused, underdeveloped, and/or rambling. Incomplete or too brief. No evidence is used to support conclusions. Serious grammatical errors that block overall understanding. Does not meet assignment requirements. Minimal to no student effort.

Late Assignments will be accepted until the graded assignment is returned to the class, but assessed a penalty of 10 points per calendar day it is late.

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 re-admission 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. **Consider:** specifics for your class/program
- 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.
- 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, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- Plagiarism is to take and present 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 correctly ‘cite a source’, 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, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or 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 School 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) use of a commercial term paper service

Additional Help – Discretionary Section and Language

The instructor can add the information pertinent to his or her class here. Some suggested language:

- Blackboard support center: <http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- Learning Labs: There are several ‘labs’ on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Learning Services (library). Please speak to the instructor about labs unique to your specific program
- Library Services: There is more to our library than just books. You have access to tutors in the learning 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 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. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

Anticipated Class Schedule / Calendar

Below is a tentative, provisional overview of the reading, assignments, tests, or other activity for the duration of the course. The faculty may find a table format useful for this purpose.

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1	Syllabus & Introduction	
Week 2	Safety in Utility Systems 103 Manual – Lineman’s hand book	
Week 3	Safety in Utility Systems Substations 103 Manual – Lineman’s hand book	
Week 4	Quiz Home Work- ELLT 103 1-5—1-10	
Week 5	Safety in Utility Systems Substations/Trip to Electric Shop 103 Manual – Lineman’s hand book	
Week 6	Safety in Utility Systems Confined Space 103 Manual – Lineman’s hand book	
Week 7	Safety in Utility Systems Confined Space 103 Manual – Lineman’s hand book MID-TERM REVIEW	
Week 8	MID-TERM	
Week 9	Safety in Utility Systems Fall Protection 103 Manual – Lineman’s hand book	
Week 10	Safety in Utility Systems PPE and FR 103 Manual – Lineman’s hand book	
Week 11	Safety in Utility Systems PPE and FR 103 Manual – Lineman’s hand book	
Week 12	QUIZ Safety in Utility Systems 103 Manual – Lineman’s hand book	

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Week 13	Safety in Utility Systems Linemen Safety Gear 103 Manual – Lineman's hand book	
Week 14	Safety in Utility Systems Arc Flash 103 Manual – Lineman's hand book	
Week 15	Review Final Exam	
Week 16	Final Exam	