

**Laney College**  
Vocational Training Department

Course Name:	Basic Electricity-3 Units
Course Number/Code:	E/ET 203
Class Meeting Days/Times:	Tuesday and Thursday, 5:30pm to 7:50 pm, Rm's. B-130 & B-120.
Suggested Preparation:	E/ET 204, Technical math for Electricians
Course Description:	Theory and lab on Basic Electricity. Learn about electrical current starting with electron flow. Learn the concepts, uses, and how to calculate resistance, inductance, and capacitance and how they apply to both DC and AC circuits. AC coils, transformers, and motors will be examined and discussed. Lab work includes learning electrical safety and hands-on wiring using many types of components. Digital meters will be used to measure project voltages, amperages, and resistances.
Student Learning Outcome:	Describe and explain electrical theories as they apply to course content. Safely perform electrical laboratory experiments. Demonstrate ability to measure electrical quantities as per Ohm's Law. Demonstrate the ability to design and correctly predict outcomes of combined electrical components in circuits.
Instructor:	Steve Weldon
Office Location & Phone:	Room B120; (510) 464-3283
Office Hours:	Monday through Thursday, 11am until 3:30 pm
Email	stweldon@peralta.edu
Required Textbook:	Paul T. Schultz. <u>AC/DC Principles</u> . Homewood, Illinois: American Technical Publishers, Inc. 2007 ISBN 978-0-8269-1350-0
Required Supplies:	Notebook, writing implement, & scientific calculator . <b>Texas Instruments TI-30XA a must!</b>
Required Tools:	None.
Grading Policy:	Homework, Quizzes, Tests, & Class Participation (20%) Hands-on Performance Assessments (30%) } =Course Grade Semester Notebook <b>turned-in</b> (20%) Final Exam (30%).
Attendance Policy:	<b>Students absent four class days will have their overall course grade reduced a grade level.</b> Class begins promptly 5 minutes after the hour and instructions will be given only once. If tardiness becomes a problem the door will be locked.
Withdrawal:	1. It is the responsibility of the student to withdraw (drop) from a class to receive a refund. 2. A student who quits attending after the designated period will receive a letter grade (an "F") on their permanent record.

**Attend every class session. Read the book and answer end-of-chapter questions before coming to class. Be prepared to discuss the information and actively participate. Class starts on January 21, Class ends on May 20. Good Fortune!**