

Pima Community College

Syllabus for Spring 2015

Course name and number: EUT-106

Section code (CRN): 24094

Class Meeting Days/Times: Saturday mornings (8:00am to 11:40am)

Class Location: TEP Irvington Campus (Ken Saville Training Center)

Instructor: Pete Pfeifer

Office hours/availability: after class

Phone/voicemail: 745-3176 or Cell 870-4380

Email address: ppfeifer@TEP.com

Class website: None

First day of class: Jan 24th, 2015

Add date: Jan 26th, 2015

Drop/Refund date: Feb 2nd, 2015

Withdrawal deadline: March 30th, 2015

Final exam date: May 16th, 2015

Last day of class: May 16th, 2015

Campus phone number: 206-7171

Adjunct Faculty Office: 206-7314

Course Description

Overview of the theories and devices used to measure electricity. Includes electric utility metering terminology, AC and DC electrical theory, Blondel's theorem, an electromechanical kilowatt-hour meter's operating principles, understanding schematic drawings for meter mounting devices and transformer connections.

Course Objectives

Upon completion of this course, the student will be able to do the following;
Understand common terminology used at a electric utility's metering department
Understand AC and DC circuit fundamentals
Understand the operating principles of a single-phase electromechanical kilowatt-hour meter
Understand the theory of operation for a distribution transformer
Understand the differences between high and low impedance measuring devices

Course Outline

Basic electrical theory for both DC and AC circuits
Electric utility terminology
Measuring Instruments
Blondel's Theorem
Electro mechanical kilowatt-hour meter operating principles
Electronic kilowatt-hour meter operating principles

Required Text Book(s)

Delmar's Standard Textbook of Electricity

Required Materials

Text Book, Calculator, Pencil, Eraser, etc.

ADA Compliance Statement

Pima Community College in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act offers reasonable accommodations, including material in alternative formats, to qualified students with appropriate disability documentation. To obtain a reasonable accommodation, students must be registered with a campus Disabled Student Resource Office (DSR) who will verify, identify, and authorize implementation. Accommodations cannot be made without verification of the need. Students are responsible for making all accommodation requests in a timely manner. The Downtown Campus DSR office telephone number is 206-7286.

Class Preparation and Policies

The student should bring with him or herself a calculator, pencil, paper, the textbook and a willingness to learn. The student **should not** bring food, drink or electronic device (cell phone, video games, etc.) that could be disruptive to the rest of the students.

Class Attendance

Because the class will be moving quickly through the material attendance is critical to passing the course. If a student has missed more than two classes it will be difficult for them to catch up. An attendance point system where points are lost for missing, coming in late, or leaving early, will be factored in with points for assignments and test score. Lost points can significantly reduce a student's grade. Couple this with the fact students with poor attendance usually don't do well on quizzes or tests, students with poor attendance will struggle getting a passing grade.

Assignments

Any homework assigned to the student will have to be completed by the start of the next class. The homework will be reviewed at that time to verify the students understand the material. Any quizzes or tests will be taken during normal class time and turned into the teacher **before the student leaves that day.**

Grading Procedures and Policy

Grades will be based on traditional grading scale:

100% - 90%	A
89% - 80%	B
79% - 70%	C
69% - 60%	D
Below - 59%	F

Class Final	30%
Exams worth	70%

Student Withdrawal

Students may withdraw from class without instructor permission and without incurring any grade penalty until **March 30th, 2015**

This grade may be requested by the student only during the first two-thirds of any session and may be given by the instructor on or before the official census reporting date to students who have ceased attending class before that date. Students who stop attending class after this date may receive a grade of "F."

Incomplete "I" Grades

- To receive an "I" grade, you must have finished at least 1/2 of the course requirements (including receiving a passing grade on the midterm) and specifically request the grade. Please call before the last week of class to be sure that there is sufficient time to consider your request. An incomplete grade generally implies that a student has shown sufficient initiative to complete the course on his or her own. You will receive a copy of the standard "I" form filed with the grade. This form details specifically what must be done to complete the course. A student has one year to complete the required work, otherwise the grade automatically reverts to an "F."
- "I" grades are not awarded automatically. The student must request an "I" from the instructor who will judge

the student's ability to complete the course on his or her own. Generally the student must have completed over 75% of the course requirements. Student and instructor fill out a form listing what remains to be completed as well as how and when the work will be done. "I" grades will not be re-evaluated during the final two weeks of the semester when class activities are normally at their most intense.

- "I" grades must be requested in writing by the student and final decisions regarding an incomplete grade are made by the instructor, but no incompletes are given if less than 2/3 of the course work has been completed. Incompletes are generally reserved for medical and family emergencies that are of significant duration or occur at a critical time during the semester.
- Due to the nature of this class, incomplete grades will not be given.

"AU" Audit Grades

Auditing a PCC class means that you enroll, attend and do work for the class but do not expect to receive credit or a grade. To audit the class, you need the instructor's permission and signature on an audit request form from any campus admissions office. This form and appropriate payment must be returned to the admissions office for admission. An audit registration cannot be completed until the first day of class. You must complete your audit registration by the end of the add period for the class you wish to audit. The instructor is not required to grade assignments submitted by students who are auditing the class.

Final Grades

For privacy and security reasons, instructors are advised NOT to give grades over the telephone or via email unless the student signs the exception box on the acknowledgment page of this syllabus. Students who wish to check grades may call MAX 2000 at 206-4880 or may access grades online using Banner Online at <http://bannerweb.pima.edu>

Class Calendar

January 24th, 2015

First class

Instructor Introduction
Placement Tests
Atomic Structure
Voltage and Current

January 31st, 2015

Second Class

Basic Circuits
Ohm's Law and the Power Formula

February 7th, 2015

Third Class

Quizzes
Static Electricity
Magnetism

February 14th, 2015

Fourth Class

Series Circuits

February 21st, 2015

Rodeo Break

February 28th, 2015

Fifth Class

Quiz on Series Circuits
Parallel Circuits

March 7th, 2015

Sixth Class

Quiz on Parallel Circuits
Combination Circuits

March 14th, 2015

Seventh Class

Quiz on Series, Parallel and Combination circuits
Magnetic Induction
Induction

March 21st, 2015

Spring Break

March 28th, 2015

Eighth Class

Quiz
Basic Trigonometry

April 4th, 2015

Ninth Class

Quiz
Alternating Current
Induction

April 11th, 2015

Tenth Class

Quiz
RL Circuits
Power Factor

April 18th, 2015

Eleventh Class

Quiz
Metering Course
Electro-mechanical meter theory

April 25th 2015

Twelfth Class

Electronic meter theory

May 2nd, 2015

Thirteenth Class

Quiz
Residential meter services
Trailer Pedestals
Gang Panels

May 9th, 2015

Fourteenth Class

Quiz on Meter Sockets
Revue

May 16th, 2015

Final

Caveats

The instructor reserves the right to make changes to the syllabus and will notify students of those changes in class.

PCC Student Code of Conduct & Scholastic Ethics

STUDENT RESPONSIBILITIES

By enrolling at Pima Community College, a student assumes the obligation to be a responsible member of the College community. All students are responsible to:

1. Contribute to a climate of academic integrity; rational, critical, and creative inquiry; freedom of individual thought and expression consistent with the rights of others; and commitment to the well-being of society as a whole.
2. Adhere to course requirements as specified by instructor(s) in the course syllabus, and follow all written and/or verbal instructions given by instructors or designated College representatives.
3. Obey all duly established College, local, state, and federal policies, regulations, and laws.
4. Refrain from actions that deny other members of the College community their rights as described herein.
5. Refrain from acts of violence, intimidation, or degradation toward any person.
6. Cooperate with College administrators, faculty, and staff in the performance of their authorized duties.
7. Give and maintain accurate and complete information for all official records required by the College.
8. Meet all financial obligations to the College.
9. Carry personal picture identification at all times while on College property or at College functions.
10. Attend all judicial proceedings when issued notice to do so.
11. Maintain the highest ethical standards in academic achievement.

Students admitted to both PCC and UA through the Program for Joint Admissions and Enrollment will be subject to codes of academic integrity and codes of conduct at both institutions.

SCHOLASTIC ETHICS CODE

The purpose of the Scholastics Ethics Code is to:

- encourage and promote positive learning and ethical scholarly behavior,
- define behavior violating scholastic ethics,
- specify procedures for the determination of the facts of the alleged violations, and to define penalties.

Guidelines for Scholastic Ethics

Students assume full responsibility for the content and integrity of the coursework they submit. The following is a guide to assist students in observing positive behavior in scholastic ethics:

1. Students must do their own work and submit only their own work on essays, examinations, reports, and projects, unless otherwise permitted by the instructor.
2. Students can benefit from working in groups. They may collaborate or cooperate with other students during take-home examinations or projects only if specifically authorized by the instructor in the class syllabus or at the time of the examination.

CODE OF ACADEMIC INTEGRITY: VIOLATIONS

Students enrolled in the College assume the obligation of conducting themselves in accordance with the highest scholarly ethics. Actions constituting violations of academic integrity will be considered a violation of the Student Code of Conduct and include, but are not limited to the following:

1. Cheating

Intentional deceit during the pursuit of academic coursework, tests, class assignments, activities in any testing area, learning center, clinical setting, tutoring session, or in the gathering of research materials is considered cheating. "Cheating" includes, but is not limited to, the following:

- a) Copying from another student's test paper or knowingly allowing your test to be copied.
- b) Using materials during a test that were not clearly authorized by the person giving the test.
- c) Collaborating with another student during a test without permission.
- d) Knowingly using, buying, selling, offering, transporting, or soliciting any of the contents of a test.
- e) Taking a test for another student or permitting another student to take a test for you.
- f) Bribing or attempting to bribe another person to obtain a passing grade or a better grade on a test or for a course.
- g) Intentional misconstruing of facts or incidents relating to an evaluated exercise or assignment that would change the grade given.

2. Plagiarism

The representing of the work of other persons as one's own, including the use of term papers written by others and information downloaded from the Internet, is plagiarism. The use of another person's words, ideas, or information without proper acknowledgement is also plagiarism. The student should seek guidance from the instructor about acceptable methods to be used to acknowledge the work and ideas of others.

3. Collusion

Obtaining from or giving to another student unauthorized assistance on material in any course work is collusion.

4. Compromising Instructional and Test Materials

Unauthorized acquisition of instructional and/or testing materials from desks, cabinets, work rooms, classrooms, laboratories, instructors' offices, tutoring labs, testing areas, assessment areas, secretarial offices, college offices, and/or other areas is compromising test materials.

5. Misrepresentation/Fraud

Using false records, false identification papers, unauthorized I.D. cards, or computer access to official college documents or to services such as testing areas, placement assessments, tutoring services, and/or tests or test banks of any type constitutes misrepresentation/fraud.

Acknowledgment of Receipt of Syllabus

Student Name _____

Home Phone # _____ Cell Phone # _____

E-mail _____

Please complete and return the following acknowledgment to your instructor in class.

I, (print name) _____, have received my (insert course name) syllabus (including course objectives, policies, requirements and schedule), and have read and understand all the enclosed materials, including the course/instructor expectations and deadlines.

Please read the following statements and check all that apply:

____ I have no objection to receiving phone calls from the instructor at my home phone number.

____ I have no objection to receiving phone calls from the instructor at my cell phone number.

____ I have no objection to receiving email from the instructor.

____ I prefer that the instructor not call or contact me anytime during the semester.

____ I give permission for my instructor to e-mail any grades and materials associated with my student record for this course during this semester to the email address listed above.

Student Signature: _____ Date: _____