SYLLABUS

DATE OF LAST REVIEW: 10/21/2014
CIP CODE: 46.0302
SEMESTER: Departmental Syllabus
COURSE TITLE: Print Reading
COURSE NUMBER: ELET0104
CREDIT HOURS: 2
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
EMAIL: Departmental Syllabus

KCKCC-issued email accounts are the official means for electronically communicating with our students.

PREREQUISITES: None

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckccbookstore.com for the required text for your particular class.

COURSE DESCRIPTION:
This class will educate the student on: how to read and interpret blueprints, layout a job from blueprints, calculate materials for a job from blueprints, draw electrical requirements a blueprint conforming to NEC, locate components on a wiring schematic, draw a schematic diagram, and learn work ethics.

METHOD OF INSTRUCTION:
A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.
COURSE OUTLINE:
I. Common architectural and electrical symbols
II. Calculations for various scales per dimension
III. Materials and Construction calculations
IV. Understanding electrical prints for residences and industrial drawings

EXPECTED LEARNER OUTCOMES:
A. The student will be able to identify standard electrical symbols and notations.
B. The student will be able to interpret dimensions using scales.
C. The student will be able to identify basic layout of drawing set.
D. The student will be able to identify site plans, floor plans, one line diagrams and detail drawings.

COURSE COMPETENCIES:

The student will be able to identify standard electrical symbols and notations.
1. The student will be able to interpret the function of electrical symbols.
2. The student will be able to identify receptacles symbols for power needs.
3. The student will be able to identify lighting and switch symbols.
4. The student will be able to identify AFCI and GFCI receptacles notations.
5. The student will be able to identify lighting symbols and notations.
6. The student will be able to identify limit symbols and notations.
7. The student will be able to identify control relay symbols.
8. The student will be able to identify motor starters and transformer symbols.

The student will be able to interpret dimensions using scales.
9. The student will be able to determine footage on a quarter inch per foot basis.
10. The student will be able to determine footage on an eighth of an inch per foot basis.
11. The student will be able to determine footage on a one-sixteenth of an inch per foot basis.
12. The student will be able to determine the scale as per architectural drawings.
13. The student will be able to determine the scale as per electrical engineering drawings.

The student will be able to identify basic layout of drawing set.
14. The student will be able to identify the plumbing layout.
15. The student will be able to identify the heating and cooling duct work.
16. The student will be able to identify the electrical distribution of power.
17. The student will be able to identify the location for main service panel.
18. The student will be able to identify the layout rough in construction.
19. The student will be able to identify the layout for lighting circuits.
20. The student will be able to identify basic layout for ceiling fans.
21. The student will be able to identify outdoor perimeter lights.
22. The student will be able to identify basic layout for transformers.
The student will be able to identify site plans, floor plans, one line diagrams and detail drawings.

23. The student will be able to identify site plans for first or second floor.
24. The student will be able to identify site plans elevations for electrical components.
25. The student will be able identify and explain one line diagrams layout.
26. The student will be able to identify and explain detail legends for site plans.
27. The student will be able to identify and explain power circuits diagram.
28. The student will be able to explain the function of components in an one-line diagram.

ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student's progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome anytime.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center, in Rm. 3354 or call at: 288-7670.