Semester/Year: Spring 2016

Lecture Hours: 5  Lab Hours: 0  Credit Hours: 5

Class Time: 6:30 - 9:00 pm  Days: MW  Room: GW216/PS216

Instructor’s Name: Mr. Fagan  Mr. Blesi

Instructor's contact Information:
Mr. Fagan
Cell Phone: 307-262-5364
Email: jfagan@caspercollege.edu
Office Hours: N/A

Mr. Blesi
Office Phone: 268-2459
Office Number: GW-116F
Email: jblesi@caspercollege.edu
Office hours:
M 10:00 - 11:00 a.m.
M 5:00 – 6:00 p.m.
T 10:00 a.m. - 12:00 p.m.
Th 12:00 - 1:00 p.m. (CS)

Course Description:
This is the second semester class of a series of classes mandated for electrical apprentices. This series of classes is designed to complement the on-the-job-training received by electrical apprentices. This course is designed to provide the beginning electrical apprentice with the necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics of study include safety, introduction to the National Electrical Code, basic electrical theory, lighting and appliance circuits, and wiring methods.

Statement of Prerequisites: Recommended status as a first-year Electrical Apprentice with an Independent Electrical contractor, and registered with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety, as an apprentice electrician.

Course Goals:
Upon completion of this course, the student will meet the requirements for continuation as a second year Electrical Apprentice. This vocational course is intended to provide entry-level training for employment in areas closely related to electrical wiring. As such, it is not intended to be transferred to other institutions, although it may be accepted by similar two-year vocational programs. Within the State of Wyoming, this course is transferable to any other Community College participating in the State approved Electrical Apprenticeship training program.
Outcomes:
1. Determine electrical behavior by applying theory to practical electrical circuits.

Course Objectives:
1. Wiring of houses to meet the requirements of the National Electrical Code.
2. Demonstrate ability to measure primary and secondary transformer electrical quantities.
3. Demonstrate wiring individual transformers as 3 phase delta and wye.
4. Ability to answer motor and control questions based upon Article 430 of the National Electrical Code.

Program Goals:
Meet the Electrical Inspector state requirements for electrical apprentice classes.
Promote the National Electrical Code for electrical safety.

Methodology:
Lecture, demonstration, audio-visual materials and practical applications will be used for instruction in this course.

Evaluation Criteria:
Students will be evaluated on homework, participation, and exams.

Grading Policy: A = 94% or better
B = 88 – 93%
C = 82 – 87%
D = 75 – 81%
F = Less than 75%

Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.

Required Text, Readings, and Materials:
Electrical Wiring Residential, Mullin, Delmar Learning, 18th ed., 2014.
2014 NEC National Electrical Code.
An inexpensive scientific calculator.

Class Policies: Last Date to Change to Audit Status or Withdraw with a W Grade:
April 14, 2016

Attendance is required by the Department of Fire Prevention and Electrical Safety and Casper College. All students must have at least 72 hours of attendance per semester. Less than 72 will result in failure.

Test grades are based on correct work shown...which means if the student is not there, the grade is zero. A makeup may be given depending on the reason, the status of the student's homework, and attendance.

Unexcused absences will result in the loss of 6% of the participation grade.
Excused absences will result in the loss of 3% of the participation grade.

No student will be allowed to take midterm or continue attending class if not registered by midterm exam.

**Safety:** Personal and equipment safety standards will be strictly enforced. *It is the individual’s responsibility to develop and use a safe work attitude.* Disregard for the safety of yourself and/or others will result in dismissal from the class.

**Student Rights and Responsibilities:** Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

**Chain of Command:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

**Academic Dishonesty:** (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

**Official Means of Communication:** Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.
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