

LEA/LEB Apprenticeship

LEA/LEB • Fall 2019

Course description

This class is for tradesmen apprentices in the Limited Energy Technician program but is open to anyone desiring an Introduction to Electricity and Electronics. Topics this term include: Basic Electrical Theory, basic electrical controls, and NEC 2017 Code testing.

Course objectives

To provide basic knowledge for the Limited Energy Technician LEA and LEB apprenticeships.

Pre Requirements

Check with course provider.

Materials Needed

Books needed:

Mike Holt Basic Electrical Theory 978-1-932685-39-8

Ugly's Electrical Reference 978-1284119367

APR 121: Electronic Systems Technician - Level One
978-0132137096

APR 122: Electronics Systems Technician - Level Two
978-0132137126

APR 123: Electronic Systems Technician - Level Three
978-0132578233

Grading Scale

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

Grading Policy and Procedures

Your grade will be based on a combination of exams, lab time, and attendance. A late assignment will have a 10% score reduction. All assignments must have your name or they will not be graded and entered. Due dates will be on each assignment.

Attendance credit will be lost if you show up late or leave early. You earn 1 point for attending every 60 minutes. This is how I track classroom hours you have earned for the term.

Final Exam:

There will be one written final exam. It is the general policy of our department to not provide for make-up work and/or exams without previous authorization.

Darin Saunders

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Week 1

Oct 2

- Attendance
- An introduction to Syllabus
- Class materials review
- Flex Assignment

Week 2

Oct 9

- Attendance
- Tools of the job
- Flex Assignment

Week 3

Oct 16

- Attendance
- Basic Electrical Theory
- APR 121:EST 33101
- APR 122:EST 33201
- APR 123:EST 33301

Week 4

Oct 23

- Attendance
- Basic Electrical Theory
- APR 121:EST 33102 & 33103
- APR 122:EST 33202 & 33203
- APR 123:EST 33302 & 33303

Week 5

Oct 30

- Attendance
- Basic Electrical Theory
- APR 121:EST 33104
- APR 122:EST 33204 & 33205
- APR 123:EST 33304
- Mid Term prep

Week 6

Nov 6

- Attendance
- Mid Term Test

Excused absence and/or prior contact with the instructor are required for exams that are missed.

Diversity Achievement Center

“If you need help finding help at LBCC, drop in to the Diversity Achievement Center. If you are not sure how to accomplish your goals at college, don’t know where to go or how to ask for help, drop in to the DAC.” DAC location 2nd floor Student Union/Forum Building.

Disabilities Services and Emergency Planning

Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency should speak with their instructor during the first week of class. If you believe you may need accommodations but are not yet registered with the Center for Accessibility Resources (CFAR), please visit the [CFAR Website](#) for steps on how to apply for services or call (541) 917-4789.

Department Policy

Use of cell phones and laptop computers during class. It is a policy of the department to restrict the use of cell phones and laptop computers during lectures and laboratory activities. At the beginning of each class turn cell phones and laptop computers off and or silence. Cell phone calculators will be allowed.

Week 7

Nov 13

- Attendance
- Basic Electrical Theory
- APR 121:EST 33105 & 33106
- APR 122:EST 33206 & 33207
- APR 123:EST 33305

Week 8

Nov 20

- Attendance
- Basic Electrical Theory
- APR 121:EST 33107
- APR 122:EST 33208 & 33209
- APR 123:EST 33306

Week 9

Nov 27

- Attendance
- Basic Electrical Theory
- APR 121:EST 33108
- APR 122:EST 33210
- APR 123:EST 33307

Week 10

Dec 4

- Attendance
- Basic Electrical Theory
- Last day to turn in assignments
- Final Exam Review

Week 11

Dec 11

- Attendance
- Final Exam