

Utah Career Center

Advanced Electricity/Electronics

Semester

Instructor:

Phone:

Required Text:

UA Basic Electricity Textbook

UCC Supplemental Drawings, Specs, Diagrams, and Schematics (Provided)

Major goals of this course: Upon completion of this course, the apprentices will have an advanced knowledge of electrical circuits, wiring diagrams, and electrical testing and troubleshooting.

The main points of this course are:

- 1- Electrical Principles in HVAC Systems
- 2- Complex Electrical Schematic Interpretation
- 3- Diagnose and Troubleshoot Advanced Electrical Issues
- 4- Understand and Work with HVAC Control Systems
- 5- Electrical Codes and Standards HVAC Related
- 6- Optimization of Electrical Components for Energy Efficiency
- 7- Motor and Compressor Diagnostics
- 8- Advanced Diagnostic Tools
- 9- Emerging Technologies

Grading:

- 1- In class assignments: 30%
- 2- Daily quizzes: 30%
- 3- Final Test: 30%
- 4- Attendance: 10%

5-	100-95	A	76-73	C
	94-90	A-	72-70	C-
	89-87	B+	69-67	D+
	86-83	B	66-63	D
	82-80	B-	62-60	D-
	79-77	C+	59 or less	F

A 70% or better is required on the “Final Test” to pass this course.

General Information

Attendance:

Class is scheduled from ____ to _____. Tardiness by students is not acceptable. Any person arriving late will be marked 'tardy.' Three (3) tardies will be counted as one (1) unexcused absence. The office will need to have all excuses for absences turned in to them within two (2) weeks of the absence.

Assignments:

Quizzes will be given every day of class. Assignments will also be done daily. If a class is missed the assignments and quiz may be made up for credit. It is your responsibility to get with the Instructor the first week back to arrange the make-up work. Late work MUST be made up within 2 weeks. It will not be accepted after that time.

Quizzes and Tests:

Quizzes will be given every day of class. Tests will be given at the end of each chapter and as a final exam. Quizzes may contain ANY information discussed in class or from the text. Test questions will be written from the daily quiz questions and may or may not contain minor variations.

ADA Statement:

If you have a disability that may impact your ability to participate in this course, please contact SLCC to discuss reasonable accommodation. Students must provide documentation about their disability to receive accommodations.