



CEC235 Commercial HVAC Lab Syllabus

Course Information

Credits	4
Campus	Washburn Institute of Technology
Address	5724 SW Huntoon
City/State/Zip	Topeka, Kansas 66604
Office Fax	785-273-7080

Description

This course continues the introduction to Commercial HVAC systems through hands-on training. Students will be performing basic maintenance, repairs and troubleshooting on functioning light commercial and commercial equipment.

Textbooks

Carter Stanfield & David Skaves, *AHRI Fundamentals of HVACR*, Edition: 3rd, ISBN: 978-0-13-401616-0
Ronnie J. Auvil, *HVAC Control Systems*. ATP. Edition: 4th, ISBN: 978-0-8269-0779-0

Student Learning Outcomes:

- A. Communicate effectively
- B. Integrate technology
- C. Learn effectively
- D. Demonstrate cooperative teamwork skills
- E. Apply safety in the workplace
- F. Think critically and creatively
- G. Demonstrate responsible work ethics

Competencies

- 1. Explain the operation of frequency drive
- 2. Create a seasonal maintenance plan based on equipment provided
- 3. Demonstrate awareness of safety issues
- 4. Describe economizer functions
- 5. Demonstrate maintenance procedures
- 6. Demonstrate quality torch skills while soldering or brazing
- 7. Read and interpret advanced electrical diagrams.
- 8. Repair and rebuild packaged conditioning units.

9. Demonstrate knowledge of Fundamental HVAC Principles and practices

Guidelines for Success

Assessment Plan

Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution's technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

Grading Scale

92 - 100%	= A
85 – 91%	= B
78 - 84%	= C
70 - 77%	= D
<70%	= F

Attendance

Classroom attendance is required. Material missed must be made up with the instructor.

Disability

The Americans with Disabilities Act (ADA) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Institute of Technology for persons with disabilities. Qualified students with disabilities MUST self-identify by completing an application. In addition students must provide appropriate medical documentation to the ADA coordinator to be eligible for accommodations. New requests for accommodations should be submitted at least two months or more prior to the date the accommodations are needed. However, please contact the ADA office as soon as a need may arise. Depending on the accommodation request, four to eight weeks lead time may be needed for timely and effective provision of accommodations.

The ADA Office coordinates and assists in arranging accommodations it deems appropriate for eligible students on a case-by-case basis. If you are a student with a disability that may substantially limit your ability to participate in any of our classes and you believe that you will need accommodations, it is your responsibility to contact: ADA Coordinator, 785.670.3365 or Gloria.christian@washburn.edu.

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