

Hagerstown Community College Master Syllabus

COURSE: INT 107 Introduction to HVAC/R

Course Information

Course #: INT 107 Introduction to HVAC/R

3 Credits

Semester Year Spring 2019

Instructor Information

Course Description

This is a basic HVAC class. No HVAC experience is necessary. To learn the basics of refrigeration, components and to properly service HVAC equipment. Learn to recover refrigerant, and evacuate a refrigeration system. Properly braze copper joints. Total of 45 hours of lecture. Course fee required.

Textbook and Course Materials

- Modern Refrigeration text book
- Modern Refrigeration and Air Conditioning Workbook (20); Althouse ISBN: 9781619602021
- Long pants
- Boots

Student Learning Outcomes

On successful completion of this course, students should be able to:

- Understand refrigeration theory.
- Understand EPA regulations and refrigerant recovery process.
- Understand HVAC/R system components and how they work.
- Understand evacuation, leak testing, and charging procedures.
- Understand SEER and COP energy ratings and HVAC system design

Definition of Credit Hour: Classroom Courses

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute academic hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours in the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to complete at least 2 hours of coursework outside of class for each hour of in-class coursework.

In-class Instruction	45
Textbook Chapter Readings	15 hours
Study of Manuals for Hands-on Activities	15 hours
Chapter Review Questions and Answers	15 hours
Research Assignments	15 hours
Exam Preparation	20 hours

Services for students with disabilities: Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530.