HVAC IIB (Spring 2024)

Welcome back to the HVAC Apprenticeship program!

I understand you are a busy person, successful people are, and I strongly encourage you to set aside the time you will need to learn and master the content within each module. To facilitate this, establish a study schedule and stick to it. If you are substantially engaged in the textbooks and Pearson online materials, on a near-daily basis, your study habits will improve and your knowledge and skills will increase.

Attendance and engagement in the online material is critical to your success in this course. Particularly, attendance is a requirement and metric used to determine successful completion of your apprenticeship program. Additionally, completing all of the assignments in Pearson's learning management system (LMS) is critical to your learning and these assignments also have an impact on your grade.

Pay close attention to the schedule outlined below and be prepared (read the material and write down questions to ask) for the lecture. As the semester progresses, there could be a need to adjust the schedule. I will use text messaging to communicate schedule changes and reminders to the class. If your phone does not accept text messages, you will need to speak with me and arrange for a different form of communication. We will meet for lecture and lab at the Superior Water and Air site located at 3536 S. 1950 W.

We will continue to use Heating, Ventilating, and Air Conditioning, Level 2, 5th edition, as we did Fall semester. We will also continue to use the LMS on the website of our textbook's publisher—Pearson. All textbook-related assignments, and exam preparation materials, will only be available via this LMS. To be successful in this course, you will need to register for this course on Pearson's website and access this course frequently to supplement your study of the textbook. If you were registered on Pearson Fall semester you should still be registered.

This semester we will prepare for the Rocky Mountain Gas Association (RMGA) Gas Technician Certification exam. The RMGA (or accepted equivalent) Gas Technician Certification is required by Utah State law (https://le.utah.gov/xcode/Title58/Chapter55/58-55-S308.html?v=C58-55-%20S308_1800010118000101) to install or service gas appliances. The certification exam is a 4 hour and 10- minute, 100-question, open book exam. The test preparation book can be borrowed from SLCC. If you would like to purchase one you can keep, you will need to contact RMGA at 801-521-8340. I recommend checking out the RMGA website at https://utrmga.org. The website offers a practice exam to assist in your preparation and instructions how to obtain an exam voucher. RMGA charges $100 for the exam voucher. The voucher includes one free retake if you don't pass with 80 or better the first time. Once you have the exam voucher, you will take the voucher to an RMGA exam proctor. The testing center at SLCC (801-957-3267) is a RMGA exam proctor and the proctoring fee is waived for SLCC students; ask your instructor for the current code to receive this waiver. You will need to take the exam outside of class time.

The following schedule will be our guide to learning this semester. As usual, there are assignments in Pearson for each module. Due to their nature, scheduled labs will be performed as a class and cannot be made up.

January 10, 2024	HVAC IIB Introduction
	Module 6 Section 1 Heat Pump Operating Principles
	Module 6 Section 4 Electric Heating Equipment
January 17, 2024	Module 6 Section 2 Heat Pump System Operation
	Module 6 Section 3 Heat Pump Installation Practices
January 24, 2024	Module 6 Review
	Module 7 Section 1 Gaskets, Packing, Seals, and Bearings
	Module 7 Section 2 Lubrication
January 31, 2024	Module 6 Exam
	Module 7 Section 3 Drive Belts
	Module 7 Section 4 Basic Maintenance Procedures
February 7, 2024	Module 7 Review
	Module 8 Section 1 Principles of Combustion
	Module 8 Section 2 Furnace Venting Systems
February 14, 2024	Module 7 Exam
	Module 8 Section 3 Venting Gas-Fired Furnaces
	Module 8 Review
February 21, 2024	Module 8 Exam
	RMGA Test Prep
February 28, 2024	RMGA Test Prep
March 6, 2024	NO SCHOOL—Spring Break
March 13, 2024	RMGA Test Prep
March 20, 2024	Module 9 Section 1 Introduction—Sheet Metal Duct Systems
	Module 9 Section 2 Joining Sheet Metal
	Module 9 Section 3 Suspending and Supporting Sheet Metal Ducts

March 27, 2024	Module 9 Section 4 Insulation
	Module 9 Section 5 Dampers and Access Doors
	Module 9 Section 6 Flexible Duct
	Module 9 Take-Home Exam Provided and due April 3, 2024
April 3, 2024	Module 10 Section 1 Fiberglass Duct Standards and Application Considerations
	Module 10 Section 2 Fiberglass Duct Fabrication and Repair
	Module 10 Section 3 Fiberglass Duct Suspension and Support
	Module 10 Section 4 Fabric-Based Air Distribution Products
	Module 10 Take-Home Test Provided and due April 10, 2024
April 10, 2024	Module 11 Section 1 Basic Commercial Air-Side Systems
	Module 11 Section 2 Types of Commercial All-Air Systems
	Module 11 Section 3 Air Terminals
	Module 11 Section 4 Air Source Equipment
	Module 11 Take-Home Test Provided and due April 17, 2024
April 17, 2024	Module 13 Section 1 Hydronic Heating System Principles
	Module 13 Section 2 Hot-Water Heating Systems
	Module 13 Section 3 Hydronic Piping Systems
April 24, 2024	Module 13 Section 4 Water Flow and Balance
	Final Exam Review
	Module 13 In-Class Open-Book Exam
May 1, 2024	Final Exam

Your final grade for the semester will be calculated as follows:

Assignments and Labs	35% of final grade
Module Exams	40% of final grade
Final Exam	25% of final grade

The following grading standards will be used in this class:

Grade	Range
A	100% to 94%
A-	< 94% to 90%
B+	< 90% to 87%
B	< 87% to 84%
B-	< 84% to 80%
C+	< 80% to 77%
C	< 77% to 74%
C-	< 74% to 70%
D+	< 70% to 67%
D	< 67% to 64%
D-	< 64% to 61%
F	< 61% to 0%