

## ATHENS TECHNICAL COLLEGE

Athens, GA

Product Name MyHVACLab

Course Name Refrigeration Fundamentals / 4 credits

**Key Results** MyHVACLab reinforces course concepts and facilitates learning beyond the classroom. Those students who complete all of the MyHVACLab assignments, also do the best in the course.

## Text

*Fundamentals of HVACR, 2e*, by Carter Stanfield and David Skaves

## Implementation

Refrigeration Fundamentals is a required course for both Air Conditioning Technology diploma students and those pursuing an Air Conditioning Systems Maintenance certificate. The course introduces the basic concepts, theories, and safety regulations and procedures of refrigeration. Topics include an introduction to the Occupational Safety and Health Administration, safety, first aid, laws of thermodynamics, pressure and temperature relationships, heat transfer, the refrigerant cycle, refrigerant identification, and types of air conditioning systems.

MyHVACLab is used in most courses in our curriculum to reinforce the concepts in the reading assignments. Each week, I give a reading assignment and a corresponding list of activities to complete in MyHVACLab, and I encourage students to complete the work prior to lecture.

At the end of each assignment, students take a quiz in MyHVACLab. I allow unlimited attempts on the quizzes because students learn in different ways—some need more exposure than others to master the concepts. Most important is that students are able to apply the concepts in lab.

## Assessments

30 percent	Lab
30 percent	Tests
25 percent	Final Exam
15 percent	MyHVACLab homework

*“The immediate feedback in MyHVACLab is a very powerful tool.”*

## MyLab Benefits

MyHVACLab provides good reinforcement of the concepts without taking away class time—learning continues outside of the classroom. In addition, students learn more actively than they do with the book alone. They appreciate the animations, videos, and the variety of learning exercises offered by MyHVACLab. But perhaps its greatest feature is the immediate feedback—students are able to see what they did right and wrong without waiting for their homework to be corrected and returned.

## Conclusion

The best students do all of the work in MyHVACLab and my observation is that it really does help them. The immediate feedback in MyHVACLab is a very powerful tool.

*Submitted by Carter Stanfield  
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