

Portfolio Requirements

HVAC & R

Freshmen Year	
Trimester 2	BOB Project (Minimum 1 page reflection including at least 1 picture, technical drawing and refrigeration cycle data)
Trimester 3	DC Motor Project (Minimum 1 page reflection including at least 1 picture, motor design drawing, and explain any/all obstacles in creating the project)
Additional Projects	Tool Slideshow (Minimum of 8 slides including what tools you learned about and pictures of each tool included)

Sophomore Year	
Trimester 1	Build a Refrigeration Simulator (Minimum of 1 page reflection including technical data, system diagram and a min. of 2 pictures)
Trimester 2	Build a Refrigeration System with accessories (Minimum of 1 page reflection including technical data, system diagram and a min. of 2 pictures)
Trimester 3	Install and duct an Air Handler (Minimum of 2 page reflection including at least 3 pictures, technical drawing with CFM layout, refrigeration data, and air flow measurements)
Additional Projects	

Junior Year	
Trimester 1	Exploratory Process (minimum 100 word reflection, minimum 5 pictures showing high level instruction)
Trimester 2	Pick one high level installation or service call from outside jobs (minimum 100 word reflection, minimum 5 pictures showing high level instruction)
Trimester 3	Pipe and install a gas or oil boiler and related heating parts and controls. (minimum 100 word reflection, minimum 5 pictures showing high level instruction)
Additional Projects	

Senior Year	
Trimester 1	Building Maintenance Proposal- Take a section of the school building and create a Maintenance Proposal to be presented to our Facilities Dept.
Trimester 2	Design a heating and cooling system from an instructor supplied blue print and estimate the cost of installation. (minimum 1 page

	reflection on the process in addition to a marked blueprint indicating equipment layout, an actual proposal and a total cost on the proposal)
Trimester 3	Co-Op Pick one high level installation or service call from Co-Op (minimum 1 page reflection, minimum 4 pictures showing high level instruction) or Pick one high level installation or service call from outside jobs (minimum 1 page reflection, minimum 4 pictures showing high level instruction)
Additional Projects	If on Co-op all year long provide 3 separate high level entries from your work. 1 Entry per trimester is due.