

# HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)

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## **HVAC 100. Introduction to Heating, Ventilation and Air Conditioning**

Credits: 3

Typically Offered: SPRING

This course is an introduction to the heating, ventilation and air conditioning trades and covers safety, tools, test equipment and basic electricity.

## **HVAC 103. Air Conditioning Theory and Components**

Credits: 5

Typically Offered: SPRING

This lecture and discussion course covers the theory of residential cooling. This class will include different types of compressors, evaporators, condensers, metering devices, refrigerants and electrical components.

## **HVAC 104. Heating Theory and Components**

Credits: 4

Typically Offered: SPRING

This lecture and discussion course covers residential heating systems. This class will include the operation and maintenance of gas, oil and electric furnaces as well as electronic air cleaners and humidifiers.

## **HVAC 114. Heating Systems Troubleshooting**

Credits: 5

Typically Offered: SPRING

This lecture, discussion, and lab class covers the wiring and troubleshooting of residential gas, oil and electric furnaces through the use of trainers and live equipment.

## **HVAC 213. Air Conditioning Systems Troubleshooting**

Credits: 5

Prerequisites: Must have successfully completed the spring semester or obtain departmental approval.

Typically Offered: SUMMER

This lecture, discussion and lab course covers residential cooling systems. This will include electrical components, wiring, electrical troubleshooting and mechanical troubleshooting using trainers and live equipment.