# Heating, Ventilation and Air Conditioning (HVAC)



	9.	10.	11,	12.
HVAC	Fabrication Technology I Fabrication Technology II Auto Systems	PLTW - Introduction to Engineering Design	PLTW - Digital Electronics (DC)	D214 Youth Apprenticeship: Heating, Ventilation and Air Conditioning  College Heating Principles  College Introductory Electronics
	High School District 214 Graduation Requirements			
English	English   English   English Course Descriptions Section - Page 223			4.0 credit units
Mathematics	Mathematics   Mathematics   Mathematics   Mathematics (Recommended) Including one unit of Algebra I and one unit of Geometry. Course Descriptions Section - Page 251			3.0 credit units
Social Science	Social Science   Social Science   Social Science (Recommended)  Must include one year of U.S. History or combination of U.S. History and American Government and one semester civics.  Course Descriptions Section - Page 269			2.0 credit units
Science	Science   Science   Science (Recommended) Course Descriptions Section - Page 261			2.0 credit units
Career & Technical Education	Career and Technical Education Course Descriptions Section - Page 275			1.0 credit unit
Fine Arts	Fine Arts Course Descriptions Section - Page 239			0.5 credit unit
Consumer Education	Consumer Education Students meet the consumer education graduation requirement by passing one of the following courses or combination of courses: Personal Finance (06210) - Page 288, Economics (07830) - Page 273, Consumer Education (59940) - Page 274.			0.25 credit unit
Physical Education	Physical Education   Health   Physical Education   Physical Education  A minimum of 3-5 days of daily physical education is a required course for all students in each of four years of high school. The State also requires that students during high school take a minimum of 18 weeks (one semester) of health education.*  Course Descriptions Section - Page 309  Refer to page 327 in Academic Policies and Procedures section regarding substitutions for physical education.			*

### **Post Secondary**

#### Career Related Electives

College Heating and Cooling Controls

College Refrigeration Fundamentals

College Refrigeration Systems

PLTW - Introduction to Engineering Design

PLTW - Civil Engineering and Architecture

College Introductory Electronics (Harper College)

College Industrial Control Systems (Harper College)

College Practical Architecture Construction

## Career Related Activities for the HVAC pathway

Athletics

**District Career Days** 

**District Career Nights** 

**District Career Treks** 

High Mileage Vehicle Club

**Robotics Club** 

Skills USA

### Four-Year University Admission Requirements

English (4 years)

Mathematics (4 years)

Social Science (3-4 years)

Science (2-3 years)

World Language (2-3 years)

Fine Arts (1-2 years)

See your counselor regarding admission requirements for highly selective institutions.



#### **Apprenticeship**



With its Youth Apprenticeship program, District 214 is one of the first high school districts in the country to set up its own apprenticeships for students with local employers rather than bringing in external organizations to manage the program, according to Jobs for the Future, a leading workforce research organization.

Apprentices are selected for the program in their junior year of high school. They get 20 to 30 hours a month of paid job training during the school year in addition to college coursework and mentoring. During the summer, they work up to 28 hours a week to expand their skills. At the end of the program, students receive either a federally registered apprenticeship certification or a youth apprenticeship certification in addition to up to a year of college credits.

During the program's pilot year, the District opted to use its own facilities for job placements in cybersecurity, HVAC (heating, ventilation, air conditioning) and automotive services to streamline the process but has since increased the program by placing apprentices with local employers.

Honors, Advance Placement and Dual Credit courses are offered throughout the curriculum. Please consult with your high school counselor for the latest information regarding course offerings, scheduling and registration for all career pathways and courses.

\*This represents the number of units of credit required at full implementation for the graduating class of 2012 and beyond (12 units, assuming a unit is equivalent to a year-long course). Additionally, physical education, while not a state graduation requirement is a required course for all students a minimum of 3-5 days a week in each of four years of high school (See ILCS 110,5/27-6 and 23 III.Adm. Code Section 1.425).

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