

Construction Pathway

Electrical, Masonry, Residential and Heating & Air

11th & 12th Graders



Possible Careers

- Cabinet Maker
- Concrete/Mason
- Crew Foreman
- Drafter
- Drywall
- Estimator
- Finish Carpenter
- Framing Lead
- Carpenter
- Remodeler
- Business Owner
- Construction Electrician
- HVAC Maintenance Specialist

Field Trips

- Home Builders Association of Lincoln
- Fall and Spring Parade of Homes
- SCC Construction Career Days
- BPI (Building Products Institute) class field trips
- City of Lincoln Building & Safety Offices



Overview

Students will choose to specialize in residential building construction, masonry, electrical, or HVAC. Curriculum will provide knowledge of basic residential and commercial construction skills, career awareness and training options, safety procedures, codes knowledge, design, layout, and estimating.

Student Experience & Projects

Students will enrich their technical skills with participation in activities such as SkillsUSA conferences/competitions, job shadows, summer employment, internships, career fairs, Habitat for Humanity, entrepreneurship seminar, install smoke alarms, housing repairs for seniors, paint-a-thon, green build recycle projects, HBAL home show/activities, and AGC activities.

20

Dual Credits: Earn up to 20 Southeast Community College credits.



the career academy

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Awards

State SkillsUSA:

- State Champion in Carpentry Contest
- State Champion in Job Skills Demonstration A

National SkillsUSA:

- National Runner-Up Carpentry: Zac LeGasse

"My favorite thing about TCA is the work time in the lab!"

- Kris, East

"TCA is a great environment and you get college credit!"

- Lydia, Pius X

Course Information

Recommended pre-TCA courses to take at your home high school

Highly Recommended: Intro to Construction

Encouraged: Intro to Woods Manufacturing, Intro to Engineering Design, CAD-Architecture

Heating and Air Dual Credits Available 12.5	YEAR 1 CLASSES <i>Junior (or Senior if pathway is not full)</i>		YEAR 2 CLASSES <i>Returning TCA Senior</i>	
	First Semester HVAC 1132 (2.0) Piping Principles	Second Semester HVAC 1336 (2.0) Sheet Metal Fabrication	First Semester HVAC 1109 (4.0) Electrical Theory/Lab	Second Semester HVAC 1131 (3.0) Refrigeration Systems HVAC 1450 (1.5) EPA Refrigerant Cert.
Residential Construction/ Masonry Dual Credits Available 12	RESIDENTIAL CONSTRUCTION CLASSES <i>Junior or Senior</i>		MASONRY CLASSES <i>Junior or Senior</i>	
	First Semester CNST 1226 (1.5) Tools and Materials I CNST 1228 (1.5) Construction Processes & Practices I	Second Semester CNST 1227 (1.5) Tools and Materials II CNST 1229 (1.5) Construction Processes & Practices II	First Semester CNST 1123 (1.5) Concrete & Masonry Tools & Materials I CNST 1125 (1.5) Concrete & Masonry Applications I	Second Semester CNST 1124 (1.5) Concrete & Masonry Tools & Materials II CNST 1126 (1.5) Concrete & Masonry Applications II
	<i>Option: LPS Residential Construction (House Project)</i>		<i>Option: LPS Residential Construction (House Project)</i>	
Electrical Dual Credits Available 20	YEAR 1 CLASSES <i>Junior (or Senior if pathway is not full)</i>		YEAR 2 CLASSES <i>Returning TCA Senior</i>	
	First Semester ELEC 1131 (5.0) DC Principles	Second Semester ELEC 1217 (5.0) AC Principles	First Semester ELEC 1366 (5.0) Residential & Commercial Wiring I	Second Semester ELEC 1367 (5.0) Residential & Commercial Wiring II
Additional high school courses taken at TCA to meet graduation requirements <i>(Students earn 30 LPS credits per year toward the 245 LPS credits required for graduation).</i>	First Semester 11th LPS Gov't & Politics <i>(5 LPS credits)</i> 12th LPS English <i>(5 LPS credits)</i>	Second Semester 11th LPS Economics <i>(5 LPS credits)</i> 12th LPS English <i>(5 LPS credits)</i>	First Semester Senior English Seminar English <i>(10 LPS credits)</i> Course completed over two semesters earning 5 credits each semester	

Information subject to change.

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