

Engineering, Manufacturing, Industrial Trades & Technology (EMITT)

Pathway: Architecture and Design

Description: Careers in designing, planning, managing, building and maintaining the built environment.

Grade	English	Math	Science	Social Studies	PE/ Health	General Electives	Pathway Electives	Occupations Relating to This Pathway
9	English 9	Algebra I Hon Geometry	Biology	World History	PE 9	Fine Arts CTE Foreign Languages Academic	Freshman Seminar & Semester Elective#	<ul style="list-style-type: none"> ▶ Architect ▶ Carpenter ▶ Civil Engineer ▶ Construction Foreman/ Manager ▶ Contractor ▶ Demolition Engineer ▶ Drafter ▶ Drywall Installer ▶ Electrician ▶ Electronic Systems Technician ▶ Equipment/Material Manager ▶ General Contractor/ Builder ▶ Heating, Ventilation, Air Conditioning and Refrigeration Mechanic ▶ Interior Designer ▶ Painter ▶ Paperhanger ▶ Plumber ▶ Project Estimator ▶ Project Inspector ▶ Roofer ▶ Safety Director ▶ Sheet Metal Worker ▶ Tile and Marble Setter
10	English 10	Geometry Hon Geo Algebra II Coll Algebra	Chemistry	Elective	PE10/ Health	Fine Arts CTE Foreign Languages Academic	Orientation to Drafting	
11	English 11	Algebra II Coll Algebra Trigonometry Pre-Calculus Math Topics	Physics	US History	PE Elective	Fine Arts CTE Foreign Languages Academic	Drafting/CAD I* Engineering Graphics I*	
12	English 12	Elective	Elective	Econ-Gov	PE Elective	Fine Arts CTE Foreign Languages Academic	Engineering Graphics II* RVC- Intro to Construction Management*	
<p>Recommended General Electives: #Exploring Engineering (Highly Recommended) Introduction to Industrial Technology and Engineering Construction I & II Machine Tool I & II AP Calculus AP Physics Internship</p> <p>Educational Opportunities after High School: RVC- A Electronic Engineering Technology, Sustainable Energy Systems, Building Construction Management NIU- B Electrical Engineering, Mechanical Engineering-Advanced Computing & Simulation, Mechatronics, Sustainable Engineering, Electrical Engineering</p>								

*Articulation/Dual Credit agreement with RVC is pending.

RVC: Rock Valley College

RC: Rockford College

NIU: Northern Illinois University

RAS: Rasmussen College

A: Associates Degree (2-year degree)

B: Bachelor's Degree (4-year degree)

M: Master's Degree (6-year degree)