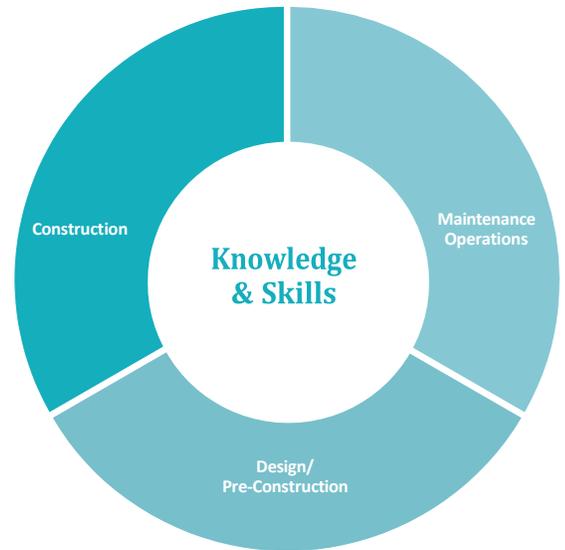


ARCHITECTURE AND CONSTRUCTION

This Program of Study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs

Pathways:

- Construction
- Design/Pre-Construction
- Maintenance Operations



Suggested Learning Experiences

Middle School Electives				
Courses	Grade 7		Grade 8	
Additional Electives	<ul style="list-style-type: none"> • Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration 		<ul style="list-style-type: none"> • Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics 	
High School Electives				
Courses	Grade 9	Grade 10	Grade 11	Grade 12
Additional Electives	<ul style="list-style-type: none"> • World Languages 	<ul style="list-style-type: none"> • World Languages 	<ul style="list-style-type: none"> • World Languages • AP Economics 	<ul style="list-style-type: none"> • World Languages • TC Accounting I and II
Career & Technical Education	<ul style="list-style-type: none"> • Construction Tech I • Intro to Engineering Design (PLTW) • Career Pathways • Electricity and Electronics 	<ul style="list-style-type: none"> • Construction Tech II • Principles of Engineering (PLTW) 	<ul style="list-style-type: none"> • Adv. Construction-Technology • TC Business Core • Digital Electronics (PLTW) 	<ul style="list-style-type: none"> • Construction Technology Capstone • Civil Engineering and Architecture (PLTW) • See Work-Based Learning Options below

High School Electives Cont.

Courses	Grade 9	Grade 10	Grade 11	Grade 12
English	<ul style="list-style-type: none"> English I R/H/Essentials 	<ul style="list-style-type: none"> English II R/H/Essentials, AP Lang/US History 	<ul style="list-style-type: none"> AS Oral and Interpersonal Communication, R/H/Essentials, AP Language & Composition 	<ul style="list-style-type: none"> AS Written Communications, AP Literature & Composition, TC English 101/102, Contemporary Media & Lit, English IV Essentials
Math	<ul style="list-style-type: none"> Essentials I Math Algebra I Geometry 	<ul style="list-style-type: none"> Essentials II Math Geometry Algebra II 	<ul style="list-style-type: none"> Advanced Math Applications Algebra II Pre-Calculus 	<ul style="list-style-type: none"> AS Technical Math TC Math 105/110 Pre-Calculus AP Calculus AP Statistics
Science	<ul style="list-style-type: none"> Biology Agriscience Earth and Space Science 	<ul style="list-style-type: none"> Chemistry AP Biology 	<ul style="list-style-type: none"> AP Environmental Science Physics 	<ul style="list-style-type: none"> AP Physics
Social Studies	<ul style="list-style-type: none"> US History & American Government AP Government Essentials 	<ul style="list-style-type: none"> American Republic R/Essentials AP US History AP Lang/US History 	<ul style="list-style-type: none"> World Studies R/Essentials AP European History AP World History 	<ul style="list-style-type: none"> Crime, Justice, and Law
Other Required	<ul style="list-style-type: none"> Healthy Choices Physical Education Computer Applications 	<ul style="list-style-type: none"> Healthy Choices Physical Education 	<ul style="list-style-type: none"> Consumer & Personal Finance Physical Education 	<ul style="list-style-type: none"> Consumer & Personal Finance Physical Education
Work-Based Learning Options	Youth Apprenticeship, ACE Academy			
Other Activities	FFA, National Honor Society, Pathway Partners, Skills USA, Youth Service Learning			

Career Types by Pathway

High School Diploma/ON-THE-JOB-TRAINING	Certificate/License	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
CONSTRUCTION				
<ul style="list-style-type: none"> Carpentry Iron Working Masonry 	<ul style="list-style-type: none"> Carpentry Construction Management Electrical and Power Transmission Iron Working 	<ul style="list-style-type: none"> Carpentry Construction Management Electrical and Power Transmission Iron Working 	<ul style="list-style-type: none"> Construction Management 	<ul style="list-style-type: none"> Construction Management Construction Engineering
DESIGN AND PRE-CONSTRUCTION				
	<ul style="list-style-type: none"> Interior Design Surveying Technology 		<ul style="list-style-type: none"> Architectural Engineering Technology Civil Engineering Technology Interior Design Landscape Architecture 	<ul style="list-style-type: none"> Architectural Engineering Technology Civil Engineering Technology Environmental Design Interior Design Landscape Architecture
MAINTENANCE AND OPERATIONS				
<ul style="list-style-type: none"> Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology 	<ul style="list-style-type: none"> Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology 	<ul style="list-style-type: none"> Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology 	<ul style="list-style-type: none"> Industrial Engineering 	