Architecture & Construction Cluster

High School

Grade	English	Math	Science	Social Studies	Other Required Courses	Career & Technical Courses
9	English 9	Algebra I	Earth, Life, Physical Science	State History or Civics	Physical Education Health	Pre-Engineering courses ■ Wood Technics ■■■ Metals/Manufacturing ■■■ Computer Aided Design ■■
10	English 10	Geometry or Algebra II	Biology	US History	***Possible GTC Credit*** — ***Cr.***	Pre-Engineering courses ■ Wood Techniques ■■ Metals/Manufacturing ■ Electricity ■■ Electronics ■■ Agricultural & Environmental Science ■
11	English 11	Algebra II or Trigonometry	Physics	Economics Psychology	**General Education** English Composition I — 3 Speech — 3 Speaking Principles — 1 Oral/Interpersonal Communication — 3 Writing Principles — 1 Applied Mathematics I — 2 Intro to College Math — 3 College Technical Math 1A — 3 College Technical Math 1B — 2 Math with Business Applications — 3 General Physics — 4 Economics — 3 Intro to Psychology — 3 Intro to Sociology — 3 PC Basics / Microsoft Office **Cluster Courses** — 2 Intro to Civil Engineering & Architectural Technology — 3 Principles of Line, Color & Design — 1 Welding Basics	Pre-Engineering courses ■ Personal Finance ■■■ Residential Construction ■■
College Placement Assessments (ACT, SAT, etc), Academic/Career Advisement Provided						
12	English 12	Pre-Calculus or Calculus	Chemistry or Biology II	Government		Pre-Engineering ■■■ Business related courses ■■■ Advanced Construction ■■

Gateway Technical College

Associate Degrees	Technical Diplomas	Certificates	Credit Transfer Opportunities
Design/Pre-Construction			• Franklin University • Marquette University • St. Cloud State University • DeVry University • UW-Oshkosh • UW-Stout
Civil Engineering Technology – *Architectural*			
Interior Design			
Construction			
Air Conditioning, Heating, & Refrigeration Technology	Building Trades –Carpentry		
Maintenance/Operations			
	Facilities Maintenance		

Careers

Requiring Postsecondary Education

- Assistant Estimator
- AutoCAD/MicroStation Plan Production Assistant
- Boiler Operator
- Building Manager
- Business Owner
- Carpenter Foreman
- Commercial Interior Designer
- Construction Inspector
- Construction Manager
- Design Assistant
- Detail Drafter
- Estimator
- Expeditor
- Facility Repair Worker
- Facilities Manager
- Freelance Designer
- Home Consultant & Planner
- HVAC Service Technician
- HVAC System Installer
- Independent Building Contractor
- Interior Design Assistant
- Journey Worker
- Lab Technician
- Maintenance Technician
- Maintenance Mechanic
- Project Designer
- Registered Land Surveyor
- Residential Interior Designer
- Retail Import Manager
- Retail Sales Positions
- Service Manager
- Service Supervisor
- Survey Assistant
- Wholesale Buyer
- Wholesale Import Dealer

Requiring Baccalaureate Degree

- Antique Specialist
- Architectural Specialist
- Building Contractor
- Building Maintenance Supervisor
- Designer
- General Construction Supervisor
- Illustrator
- Lab Supervisor
- Management Position
- Manufacturer's Representative
- Mechanical Engineer
- Product / Architectural Designer
- Professional Architect
- Professional Civil Engineer
- Senior Designer
- Teacher