

HOWARDS GROVE HIGH SCHOOL

ARCHITECTURE & CONSTRUCTION Career Plan of Study
Careers in designing, planning, managing, building, and maintaining the built environment.
Pathways include Design/Pre-Construction; Construction; and Maintenance/Operations.

	Entry Level Occupations	Careers with Certification/Associate Degree	Careers with Bachelors, Pre-Professional, or Higher Degree
Sample Occupations	Bricklayer; Construction Laborer; Drywall Installer; Floor Covering Installer; Grading & Leveling Machine Operator; Groundskeeper & Gardener; Heavy Equipment Operator; Highway Maintenance Worker; Roofer; Tile Setter	Architectural Drafter; Bricklayer; Carpenter; Cement Mason; Civil Engineering Technician; Contractor; Drywall Installer; Electrical Engineering Technician; Electrician; HVAC Technician; Insulator; Pipefitter; Plasterer; Plumber; Sheet Metal Worker; Tile Cutter	Architect; Building Contractor; CAD Designer; Civil Engineer; Cost Estimator; Electrical Engineer; Grounds Supervisor; Highway Engineer; Inspector; Interior Design; Landscape Architect; Surveyor

This plan of study should serve as a guide, along with other career planning materials, as you continue on your career path. Courses listed within this plan are only recommended courses and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as post-secondary school entrance requirements.

High School Requirements	Grade	English (4 credits total)	Math (2 credits total)	Science (2 credits total)	Social Studies (3 credits total)	Additional Requirements
	9	English 9		Physical Science	Geography	Computer App. OR Info. & Computer Tech. Physical Education Health
	10	Sophomore Composition		Biology	World History	Physical Education Health
	11	Speech & .5 credit (see list below)			U.S. History	Grades 9 - 12 <i>Fine Arts/Humanities:</i> 1 credit from Art, Music, Foreign Language, or Mythology <i>Career & Technical Education:</i> 1 credit from Agribusiness, Business Ed, Family & Consumer Ed, or Tech Ed
	12	English Electives (see list below)			Political Systems & Issues	Grade 11 or 12: P.E. Elective

High School Electives	English Electives	Math Electives	Science Electives	Social Studies Electives	Recommended Electives
	with Speech: American Lit Mythology Mass Media grade 12: Advanced Comp & World Lit; Advanced Comp & Mythology; Lit A & Lit B AP English	Applied Math I Algebra I Geometry Algebra II Intro to Stats Trigonometry Elementary Functions Calculus	Applied Chemistry Chemistry Physics AP Adv. Chemistry AP Adv. Biology	Social Problems	Intro to Tech; Applied Tech; Construction Systems; Technology Engineering; Industrial Design; Communications Design; Architectural/Engineering Drawing; Studies in Advanced Technology Education; Future Prep; Technology Education Co-op Program; Drafting Youth Apprenticeship; Art Survey; Drawing & Design; Business Law; Business Economics; Accounting; 2 years World Language; Psychology

POST SECONDARY PROGRAMS

Technical Colleges	Certificates	Technical Diplomas	Associate Degrees
	Air Cond. Ref. & Heating: MATC Bricklaying/Masonry: MATC Power Engineering & Boiler Operator: MATC, NWTC Preparatory Plumbing: MATC	Architectural Woodworking/Cabinetmaking: MATC Building Trades - Carpentry: Gateway, MPTC, Nicolet Area, Southwest Area Waukesha Co. Cabinetmaking & Millwork: Madison Area Carpentry: MATC Construction & Remodeling: Madison Area Gas Utility Construction & Service: NWTC Residential Building Construction: FVTC Wood Tech: NWTC	Air Conditioning, Heating & Refrig. Tech: MATC, MPTC, NWTC Architectural Commercial Design: WI Indianhead Architectural Drafting/Construction Technology: Waukesha Area Architectural Technology: MATC, NWTC Architectural - Residential Design: Northcentral Civil Engineering Technology: Gateway, MATC, Madison Area, NWTC Interior Design: FVTC, MATC Land Survey Technician: Nicolet Area Prototype & Design Technician: NWTC

Key to Abbreviations: FVTC: Fox Valley; LTC: Lakeshore; MATC: Milwaukee Area; MPTC: Moraine Park; NWTC: Northeast Wisconsin

Four Year Colleges	Public Colleges	Private Colleges
	Architectural Studies: Milwaukee Civil Engineering: Madison, Milwaukee, Platteville Construction: Stout Interior Architecture/Design: Madison, Stevens Point	Architectural Engineering: MSOE Civil Engineering: Marquette Construction Management: Marquette, MSOE Interior Architecture & Design: MIAD Interior Design: Concordia

*These are some of the programs at Wisconsin Technical Colleges and some of the majors at UW System Colleges and WI Private Colleges and Universities.
 For information about technical college programs go to www.witechcolleges.org.
 For information about UW System colleges go to www.wisconsin.edu.
 For information about private colleges and universities in Wisconsin go to www.wisconsinmentor.org.
 For information about transfer agreements between technical colleges and UW System schools and between technical colleges and private schools go to www.uwsa.edu/tis.*

This is one of sixteen career clusters. For more information about career clusters go to www.careerclusters.org.