

CAREER PROGRAM OF STUDY



Career Cluster: **ARCHITECTURE & CONSTRUCTION**

Pathway: *Design/Pre-Construction; Construction; Maintenance/Operations*

Student Name: _____

Career Clusters identify pathways from high schools to two- and four-year technical colleges, universities, apprenticeship programs and the workplace so that learners can recognize the relationship between what they learn in school and what they can do in the future.

Knowledge and Skills Needed to Succeed in this Career Cluster: Academics, Communications, Problem Solving & Critical Thinking, Information Technology Applications, Systems, Safety, Health & Environmental, Leadership & Teamwork, Ethics & Legal Responsibilities, Employability & Career Development, and Technical Skills.

		9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	HIGH SCHOOL COURSES	<i>Core Courses</i>			
		English I English Prep 2 English Prep I	English II Basic Skills English English Prep 2 English Prep I	Adv. Comp. & Early Amer. Lit. American Literature Basic Skills English English Prep 2	AP English World Literature Adv. Comp. & Early Amer. Lit. Technical Writing Everyday English
Social Studies	HIGH SCHOOL COURSES	<i>Schedule a Sophomore Individual Planning Conference with your Counselor</i>			
		U.S. History	World History	Modern American History (req.) Psychology Sociology Comparative Politics Modern Global Issues	AP American History Pop Culture Microeconomics Macroeconomics
Math	HIGH SCHOOL COURSES	<i>Schedule College Visits & College Entrance Exams for Junior Year</i>			
		Algebra I Extended Algebra Geometry	Geometry Extended Geometry Algebra II	Probability & Stats Adv. Geometry Pre-Calculus FST	AP Calculus Discrete Math ACT Math Prep
Science	HIGH SCHOOL COURSES	<i>Schedule Senior Interview with your Counselor before October 1</i>			
		Integrated Science Biology Plant Science	Biology Chemistry Animal Science	Physics AP Chemistry AP Physics	AP Biology Food Science Animal Health & Nutrition

		Elective Courses Within This Cluster Include:	School Activities
CAREER ENHANCEMENT	HIGH SCHOOL COURSES	Employability Skills Activities in Construction Activities in Transportation Personal Finance Intro to Microsoft Office Drafting & CAD Home Servicing Accounting I	Skills USA-VICA Key Club Youth Apprenticeship Band Choir
		Power & Energy Materials & Processing Electricity & Electronics Cabinet Making Architectural Planning Computer Programming I Building Trades Advanced Technical Design Welding	

Student Signature: _____ Date: _____

Parent/Guardian Signature: _____ Date: _____

Counselor Signature: _____ Date: _____



ARCHITECTURE & CONSTRUCTION

Career Majors		
POST SECONDARY PROGRAMS	Wisconsin Technical College System – 2 year www.witechcolleges.com	
	Wisconsin College/University System – 4 year www.uwhelp.wisconsin.edu Wisconsin Independent Colleges & Universities www.wisconsinmentor.org	
Air Conditioning, Heating & Refrigeration Technology Architectural Design Architectural Drafting/ Construction Technology Architectural Woodworking/ Cabinet Making Bricklaying & Masonry Carpentry Construction & Remodeling	Electrical Power Distribution Electricity Gas Utility Construction & Service Land Survey Technician Model Building Design & Construction Preparatory Plumbing Residential Building Systems Specialist Wood Tech	Architectural Studies Construction Civil Engineer Engineering Electrical Engineer Electronic Engineer Environmental Designer Environmental Engineer Landscape Architecture Materials Engineer Mechanical Engineer Paper Science Occupational Safety Urban Planning
<i>Learn more about career programs at www.careervoyages.com</i>		



ARCHITECTURE & CONSTRUCTION

Specialty Careers / Occupations		
Design/Pre-Construction	Construction	Maintenance/Operations
Architect Architectural and Civil Drafter Drafter Regional and Urban Planner/Designer Industrial Engineer Materials Engineer Mechanical Drafter Environmental Designer Civil Engineer Programmer Mechanical Engineer Electrical Engineer Preservationist Environmental Engineer Landscape Architect Surveyor Fire Prevention and Protection Engineer Cost Estimator Electrical and Electronic Engineering Technician Civil Engineering Technician Environmental Engineering Technician Surveying and Mapping Technician Interior Designer Landscape Designer Specifications Writer Building Code Official Computer Aided Drafter (CAD) Renderer (traditional and computer) Modeler (traditional and computer)	General Contractor/Builder Specialty Contractor Construction Engineer Construction Manager Superintendent Project Manager Construction Foreman Estimator Project Inspector Manufacturer's Representative Sales and Marketing Manager Equipment and Material Manager Scheduler Safety Director Education and Training Director/Coordinator Construction Inspector Subcontractor Preservationist Service Contractor Field Supervisor Specialty Trades Subcontractor Mason Construction Craft Laborer Iron/Metalworker (structural and reinforcing) Carpenter System Installer Electrician Boilermaker Electronic Systems Technician Sheetmetal Worker Security/Fire Alarm Systems Installer Concrete Finisher Glazier Tile and Marble Setter Landscaper/Groundskeeper Elevator Installer Roofer Painter and Plasterer/Drywall Explosives Worker Insulation Worker Drywall Installer Plumber Pipe Fitter Millwright Heating, Ventilation, Air Conditioning and Refrigeration Mechanic Carpet Installer Electrician Steamfitter Terrazo Worker and Finisher	General Maintenance Contractor Construction Engineer Construction Manager Superintendent Project Manager Estimator Facilities Engineer Reliability Engineer Environmental Engineer Demolition Engineer Project Inspector Manufacturer's Representative Sales and Marketing Manager Equipment and Material Manager Scheduler Maintenance Planner/Scheduler Security Controls Manager • Preservationist Safety Director Construction Inspector Service Contractor Field Supervisor Specialty Trades Subcontractor Mason Iron/Metalworker Carpenter System Installer Electrician Boilermaker Cost Estimator Sheetmetal Worker Security and Fire Alarm System Installer Concrete Finisher Glazier Tile and Marble Setter Hazardous Materials Remover Landscaper/Groundskeeper Elevator Installer Drywall & Insulation Worker Plumber / Pipe Fitter Millworker Heating, Ventilation, Air Conditioning and Refrigeration Mechanic Carpet Installer Electrician Steamfitter Terrazo Worker and Finisher Refractory Technician Hydro Testing Technician Thermal Control Technician Restoration Technician Wastewater Maintenance Technician Highway Maintenance Worker

SAMPLE CAREER OCCUPATIONS

Learn more about specific occupations at: <http://www.bls.gov/oco/>

