



Four Rivers Career Center
Building Trades
Career Cluster Program of Study
www.fourriverscc.org

Minimum Graduation Requirements		SUGGESTED COURSE OF HIGH SCHOOL STUDY						
It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.								
	Grade	English	Math	Science	Social Studies	Electives or Fine/Practical Arts	FRCC and Fine/Practical Arts	Additional Learning Opportunities
Secondary	9	ENGLISH I	<u>PATH A:</u> Algebra I Concepts Pre-Algebra <u>PATH B/C:</u> Algebra I Geometry Honors Geometry	<u>PATH A:</u> Applied Biology <u>PATH B/C:</u> Biology I Honors Biology I	United States History	<u>PATH A/B/C:</u> Modern Manufacturing Intro to Woods* Modern Manufacturing Intro to Metals* Design and Construction <u>PATH C:</u> World Language	HEALTH & PE	School-Based: <input checked="" type="checkbox"/> Career Research <input checked="" type="checkbox"/> Job Shadowing <input checked="" type="checkbox"/> Service Learning Project Community Based: <input checked="" type="checkbox"/> Apprenticeship <input checked="" type="checkbox"/> Volunteer <input checked="" type="checkbox"/> Part-time Employment
	10	<u>PATH A/B/C:</u> English II <u>PATH B/C:</u> Honors English II	<u>PATH A/B:</u> Algebra I Concepts Geometry Concepts Geometry <u>PATH C:</u> Algebra II Honors Algebra II	<u>PATH A/B:</u> Applied Chemistry Chemistry I <u>PATH C:</u> Honors Chemistry I Physics I	World Studies	<u>PATH A/B/C:</u> Modern Manufacturing Woodworking Modern Manufacturing Metalworking Fine Art Elective <u>Path B/C</u> PLTW Intro to Engineering/Design Computer Applications* Business Essentials*	PERSONAL FINANCE (1/2 CREDIT) (Required for graduation; may take during 10 th , 11 th , or 12 th grade)	Assessments/Certifications: <input checked="" type="checkbox"/> Technical Skills Attainment (TSA) <input checked="" type="checkbox"/> OSHA 10 <input checked="" type="checkbox"/> Career and Technical Education Certificate <input checked="" type="checkbox"/> National Career Readiness Cert. <input checked="" type="checkbox"/> FRCC Soft Skills Assessment
	11	<u>PATH A:</u> Speech and Debate* Technical and Career Writing* <u>PATH B/C:</u> AP Lit & Composition CC Public Speaking CC Comp Embedded English at FRCC (1/2 credit)	<u>PATH A:</u> Geometry Concepts Algebra II Concepts Algebra II <u>PATH B/C:</u> Algebra II (CC) Pre-Calculus Algebra II Embedded Math at FRCC (1/2 credit)	<u>PATH A:</u> Applied Physics <u>PATH B/C:</u> Chemistry I Chemistry II <u>PATH C:</u> AP Chemistry AP Physics I	<u>PATH A/B:</u> Government* Social Studies * <u>PATH C:</u> AP Government	<u>PATH A/B/C:</u> Modern Manufacturing Advanced Woodworking Modern Manufacturing Advanced Metalworking Housing Decisions and Interior Design* <u>PATH B/C:</u> Architectural Drafting* PLTW Engineering Essentials ACT Prep A+ Tutor (1/2 credit)	BUILDING CONSTRUCTION I @ FRCC (Embedded English at FRCC – ½ credit – may be taken as replacement for Senior English) (Embedded Math at FRCC – ½ credit)	Placement Assessments: <input checked="" type="checkbox"/> Compass Test <input checked="" type="checkbox"/> PLAN <input checked="" type="checkbox"/> ACT <input checked="" type="checkbox"/> ASVAB <input checked="" type="checkbox"/> WorkKeys Student Organizations: <input checked="" type="checkbox"/> SkillsUSA
	12	<u>PATH A/B/C:</u> Choice <u>PATH C:</u> AP Lit & Composition CC Public Speaking CC Comp Embedded English at FRCC (1/2 credit)	<u>PATH A:</u> Algebra III Concepts <u>PATH B/C:</u> College Prep Algebra AP Statistics CC Algebra AP Calculus (CC) Pre-Calculus Math Analysis and Statistics Embedded Math at FRCC*	<u>PATH A:</u> Elective Choice Fine Art Choice <u>PATH B/C:</u> Chemistry I Chemistry II AP Chemistry AP Physics	<u>PATH A/B/C:</u> Elective Choice Fine Art Choice	<u>PATH A/B/C:</u> Elective Choice	BUILDING CONSTRUCTION II @ FRCC (Embedded English at FRCC – ½ credit – may be taken as replacement for Senior English) Embedded Math at FRCC – ½ credit) * ½ Credit hour	36 DUAL CREDIT HOURS OFFERED THROUGH EAST CENTRAL COLLEGE Articulation Agreement State Technical College

PATH A – OFF TO WORK

PATH B – ASSOCIATE'S DEGREE/PROFESSIONAL CERTIFICATION

PATH C – 4-YEAR DEGREE AND BEYOND

Academic Focus for Success at Four Rivers Career Center					
Focus on Academics	Core Academics		Physical/Health	Fine/Practical Arts	Professionalism
	Mathematics: <ul style="list-style-type: none">• General math• Fractions• Decimals• Percentages• Volume• Area• Accounting Science: <ul style="list-style-type: none">• Dendrology• Metallurgy• Chemistry (related to adhesives/ mixtures of concrete)• Geology• Ergonomics General: <ul style="list-style-type: none">• Task completion• Mechanical ability	English Language Arts : <ul style="list-style-type: none">• Technical reading• Technical vocabulary• Verbal communication• Penmanship Social Studies : <ul style="list-style-type: none">• Early human shelters• Evolution of tools• History of US banking and finance• History of building disasters• Labor history• History of fire and fire codes• History of immigration and migration• Economics• OSHA	<ul style="list-style-type: none">• Physical strength• Mobility• Hand/eye coordination• Gross and fine motor skills Safety: <ul style="list-style-type: none">• Basic shop safety• First aid• Awareness of dangers in the shop and at the job site Embedded English : <ul style="list-style-type: none">• Analyze informational text• Application process• Build technical vocab• Career specific research• Career specific writing• Cite textual evidence• Interview skills• Oral presentations/ collaborative discussion• Resume development	<ul style="list-style-type: none">• Wood shop• Metal shop• Drafting	<ul style="list-style-type: none">• Reliable• Motivated• Work independently• Follow multi-step directions• Prepared daily• Teamwork• Attention to detail• Code of ethics• Flexible• Task oriented• Punctual• Professional attitude• Professional communication• Trade related professional attire• Respectful and courteous• Competent• Enthusiastic• Empathetic• Anger management
Sample Careers By Educational Level - For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org					
On-The-Job Training or Less		Technical Training or Associate Degree	Bachelors Degree	Masters Degree or More	
Bricklayers, Stonemasons and Cement Masons Cabinetmakers and Carpenters Drywall Finishers & installers and Plasterers Electricians Fence Builders Heating and Cooling System Mechanics Highway Maintenance Workers & Paving Equip Operators Line Installers and Repairers Plumbers and Pipefitters Roofers Sheet Metal Workers and Structural Metal Workers Surveying and Mapping Technicians Tile Setters		Commercial Divers Drafter Energy Auditors Interior Designers	Architects Construction Managers Cost Estimators Landscape Architects Surveyors	Architects, Except Landscape and Naval Architecture Teachers, Postsecondary Engineering Managers Engineering Teachers, Postsecondary Historians Operations Research Analysts Political Scientists Sociologists Sociology Teachers, Postsecondary	