

Four Rivers Career Center Welding Career Cluster Program of Study http://frcc-sdow-mo.schoolloop.com

		aduation Requirements		SUGGESTED COURSE OF HIGH SCHOOL STUDY								
IVIIIII	mum Gr	aduation Requirements	5	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	PATH A: Algebra I Concepts Pre-Algebra PATH B/C: Algebra I Geometry Honors Geometry	PATH A: Applied Biology PATH B/C: Biology I Honors Biology I	United States History	PATH A/B/C: Modern Manufacturing Into to Metals* Modern Manufacturing Into to Woods* Design and Construction Fine Art PATH B/C Computer Applications PATH C: World Language	HEALTH & PE	School-Based:				
	10	PATH A/B/C: English II PATH B/C: Honors English II	PATH A/B: Algebra I Concepts Geometry Concepts Geometry PATH C: Algebra II Honors Algebra II	PATH A/B: Applied Chemistry Chemistry I PATH C: Honors Chemistry I Physics I	World Studies	PATH A/B/C: Modern Manufacturing Metalworking PATH C: PLTW Intro to Engineering/Design World Language	PERSONAL FINANCE (1/2 CREDIT) (Required for graduation; may take during 10 th , 11 th , or 12 th grade)					
	11	PATH A: Speech and Debate* Technical and Career Writing* PATH B/C: AP Lit & Composition CC Public Speaking CC Comp Embedded English at FRCC (1/2 credit)	PATH A: Geometry Concepts Algebra II Concepts Algebra II PATH B/C: Algebra II (CC) Pre-Calculus Algebra II Embedded Math at FRCC (1/2 credit)	PATH A: Applied Physics PATH B/C: Chemistry I Chemistry II PATH C: AP Chemistry AP Physics I	PATH A/B: Government* Social Studies * PATH C: AP Government	PATH A/B/C: Modern Manufacturing Advanced Metalworking Fine Art choice A+ Tutor* Path B/C ACT Prep*	WELDING TECHNOLOGY I @ FRCC (Embedded English at FRCC – ½ credit – may be taken as replacement for Senior English) Embedded Math at FRCC – ½ credit)					
	12	PATH A/B/C: Choice PATH C: AP Lit & Composition CC Public Speaking CC Comp Embedded English at FRCC (1/2 credit)	PATH A: Algebra III Concepts PATH B/C: College Prep Algebra AP Statistics CC Algebra AP Calculus (CC) Pre-Calculus Math Analysis and Statistics Embedded Math at FRCC*	PATH A: Elective Choice Fine Art Choice PATH B/C: Chemistry I Chemistry II AP Chemistry AP Physics	PATH A/B/C: Elective Choice Fine Art Choice	PATH A/B/C: Elective Choice Fine Art Choice A+ Tutor* * 1⁄2 Credit hour	WELDING TECHNOLOGY II @ FRCC (Embedded English at FRCC – ½ credit – may be taken as replacement for Senior English) Embedded Math at FRCC – ½ credit)	CENTAL COLLEGE Articulation Agreement State Technical College				

		Ac	ademic Focus for Succes	s at Four Rivers C	areer Center	
	Core Aca				Fine/Practical Arts	Professionalism
Focus on Academics	Mathematics: Basic math Metric Fractions Decimals Percentages Problem solving Embedded English : Analyze informational text Application process Build technical vocab Career specific	Science: Metallurgy Physical Science Principles of electricity Basic physics Thermal dynamics English Language Arts: Technical reading Technical vocabulary Some lengthy writing Locating information Social Studies: Occupational opportunities in welding Government regulations for welds Certifications General: Task completion Mechanical ability Work ethic	 Manual dext Fine motor s Hand/eye cc Balance Mobility Safety: Basic shop First aid 	erity skills oordination safety of dangers in	 Blueprint reading Welding symbols Metal shop Wood shop 	 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
	On-The-Job Training or Less	Technical Training of		les, go to <u>www.cal</u>	eerclusters.org or <u>www.missouriconn</u> Bachelors Degree	Masters Degree or More
Met Pre Qua Too	chinists cal and Plastic Processing Workers cision Assemblers ality Control Inspectors of Grinders azer	Semiconductor Processing O Welders and Solderers Welding and Soldering Mach	Operators	Occupational Hea Safety Engineers	Ith and Safety Specialists	