



Festus High School
Science, Technology, Engineering & Mathematics
Career Cluster Suggested Individual Career and Academic Plan
<http://festus.k12.mo.us>

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	Required Courses/ Elective Options	<u>Area Technical School of Jefferson College</u>	Additional Learning Opportunities
Secondary	9	ELA I or Advanced ELA I	Algebra I or Geometry/ Advanced Geometry	Physical Science	World History	PEI Lifetime Health Fine Arts (Intro to Art) Foreign Language I		School Based: ☐ Career Research ☐ Cooperative Education ☐ Internship ☐ Job Shadowing ☐ Service Learning Project ☐ Other: _____
	10	ELA II or Advanced ELA II	Geometry/ Advanced Geometry or Algebra II/ Advanced Algebra II	Biology	US History	PE II Foreign Language II Computer Applications I Industrial Technology		Community Based: ☐ Mentorship ☐ Volunteer ☐ Part-time Employment ☐ Other: _____
	11	ELA III or Advanced ELA III	Algebra II/ Advanced Algebra II or Precalculus AP Statistics	Pre AP Chemistry AP Physics I Earth Science	US Government	Personal Finance Foreign Language III Drawing Drafting Technical Drawing Architectural Drawing Computer Science		Assessments/Certifications: ☐ Technical Skills Attainment (TSA) ☐ Other: _____
	12	ELA IV or AP English Lit & Comp	AP Statistics AP Calculus AB	AP Chemistry AP Physics II Advanced Biology Earth Science II	AP US History	Foreign Language IV 3-D Design Intro Engineering Design Electricity/Electronics	☐ Computer Integrated – Manufacturing	Placement Assessment: ☐ ACCUPLACER ☐ ACT ☐ PSAT ☐ SAT ☐ ASVAB ☐ Other: _____
								Student Organizations: ☐ DECA ☐ FBLA ☐ FCCLA ☐ Skills USA ☐ Other: _____

ATS symbol key : *Articulated Credit ☐ Dual Credit +Prerequisites M Mathematics C Communications **BOLD – AM ONLY PROGRAM** *Italicized – PM ONLY PROGRAM* Underlined – AM & PM
 High School credit earned is dependent upon Sending School Transcription

Career Cluster Sample Individual Career and Academic Plan

Postsecondary Offerings – For a complete listing, go to www.missouriconnections.org					
Postsecondary	Community College	Technical School/Training Institution	In State		Out of State/Other
	Crowder College www.crowder.edu East Central College www.eastcentral.edu Jefferson College www.jeffco.edu Metropolitan Community College www.mcckc.edu St. Charles Community College www.stchas.edu St Louis Community College www.stlcc.edu	Missouri Tech www.motech.edu	Avila University - www.avila.edu Central Methodist University www.centralmethodist.edu College of the Ozarks - www.coto.edu Columbia College - www.ccis.edu Culver-Stockton College www.culver.edu Drury University - www.drury.edu Evangel University - www.evangel.edu Lincoln University - www.lincolnu.edu Lindenwood Univ - www.lindenwood.edu Maryville University of St. Louis www.maryville.edu Missouri Baptist Univ - www.mobap.edu MO Southern State University www.mssu.edu Missouri State University www.missouristate.edu MO University of Science & Technology www.mst.edu Missouri Western State University www.missouriwestern.edu	Northwest Missouri State University www.nwmissouri.edu Park University - www.park.edu Rockhurst University www.rockhurst.edu Saint Louis University www.imagine.stu.edu Southeast MO State University www.semo.edu Southwest Baptist University www.sbu.edu Truman State Univ - www.truman.edu Univ of Central MO - www.ucmo.edu Univ of MO www.missouri.edu Univ of MO – KC www.umkc.edu Univ of MO – STL - www.umsf.edu Washington Univ - www.wustl.edu Westminster College www.westminster-mo.edu William Jewell College - www.jewell.edu	• Apprenticeship • Military • On-the-Job Training Grantham University www.grantham.edu
Sample Careers By Educational Level – For Occupational Specialties, go to www.careertech.org or www.missouriconnections.org					
	On-The-Job Training or Less	Technical Training or Associate Degree	Bachelors Degree	Masters Degree or More	
		Electronics Engineering Technologists Engineering Technicians Manufacturing Engineering Technologists Science Technicians	Aerospace Engineers Biomedical Engineers Cartographers Chemists Civil Engineers Electrical and Electronics Engineers Energy Engineers Environmental Engineers Geospatial Information Scientists and Technologists Industrial Engineers Manufacturing Engineers Materials Engineers Mechanical Engineers Meteorologists Mining Engineers Nuclear Engineers Petroleum Engineers Photonics Engineers Remote Sensing Scientists and Technologists	Anthropologists Archeologists Astronomers Biologists Environmental Scientists Geographers Geologists and Geophysicists Historians Mathematicians Physicists Political Scientists Robotics Engineers Sociologists	