

COLLEGE:		St. Louis Community College			CLUSTER:	Science, Technology, Engineering & Math					
HIGH SCHOOL(S):		Riverview Gardens School District			PATHWAY:	Engineering Technology					
					PROGRAM:	Manufacturing Technology					
		GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES RECOMMENDED ELECTIVE COURSES OTHER ELECTIVE COURSES CAREER AND TECHNICAL EDUCATION COURSES				
ADULT LEARNER ENTRY POINTS	SECONDARY	9	Communications Arts (1)	Algebra (1)	Biology or Physical Science (1)	Civics or World History (1)	Health/PE (1/2)	Principles of Engineering (1)			
		10	Communications Arts (Writing Intensive) (1)	Geometry (1)	Biology or Chemistry (1)	World History or Civics (1)	Health/PE (1/2)	Introduction to Engineering Design (1)	Fine Arts (1/2)		
		After 10th grade, assess for college readiness; provide academic/career advising and apply appropriate enrichments (ACT Plan)									
		11	Communications Arts (Writing Intensive) (1)	Algebra II (1)	Chemistry or Physics (1)	U.S. History (1)	Foreign Language (1/2)	Computer Integrated Manufacturing (1)	Digital Electronics (1)		
		After 11th grade, assess for college readiness; provide academic/career advising and apply appropriate enrichments (ACT or Accuplacer)									
		12	Communications Arts (Writing Intensive) (1)	Discrete Math or Pre-Calculus (1)		Missouri Constitution (1/2)	Foreign Language (1/2)	Engineering Design and Development (1)			
	Administer college placement exams (reading, math, and writing) and other assessments to determine academic readiness and career skill preparedness; provide academic/career advising and additional preparation										
	POSTSECONDARY	Year 1 1st Semester	College Composition I (3) (ENG:101)	Technical Algebra & Trigonometry (5) (MTH:144)				Principles of Engineering (3) (GE:121)	Introduction to Engineering Design (3) (EGR: 147)	Manufacturing Processes I (3) (ME: 151)	Engineering Drawing (3) (EGR: 100)
		Year 1 2nd Semester	College Comp II (3) or Report Writing (ENG:102 or 103)					Mechanics-Statics (3) (ME:135)	Manufacturing Processes II (3) (ME:152)	Computer Integrated Manufacturing (3) (ME: 121)	Fundamentals of Digital Electronics (3) (EE: 121)
		Year 2 1st Semester				Mo State Requirement (3)		Mechanics-Dynamics (3) (ME:242)	Strength of Materials (3) (ME:243)	Fluid Power (3) (ME:255)	Materials and Metallurgy (3) (ME:249)
		Year 2 2nd Semester				PE - Requirement (1)	Social Science Requirement (3)	Numerical Control Programming (3) (ME: 241)	electives (5)	Engineering Design & Development (3) (GE:122)	
	Required Courses										
Recommended Elective Courses											
Other Elective Courses											
Career and Technical Education Courses											
Credit-Based Transition Programs (e.g. Dual/Concurrent Enrollment, Articulated Courses, 2+2+2)											
Mandatory Assessments, Advising, and Additional Preparation											



CCTI

College and Career Transitions Initiative

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