

HIGH SCHOOL-TO-COLLEGE PATHWAY

PATHWAY: MECHATRONICS ENGINEERING TECHNOLOGY						ASSOCIATE OF APPLIED SCIENCE DEGREE		
HIGH SCHOOL PLAN								
SECONDARY	GRADE	English	Math	Science	Social Studies	Required Courses or Recommended CTE Electives		Career and Technical Courses
	9	English I	Math I	Earth Science	World History	*Health/PE Microsoft Word & PowerPoint		Engineering & Architecture Design/Drafting I
						*PLTW Introduction to Engineering Design		
	10	English II	Math II	Biology	Civics & Economics	ELC 125 Diagrams & Schematics		ELC 112 DC/AC Electricity HYD 110 Hydraulic Pneumatics I
						ATR 112 Intro to Automation		
	11	English III	Math III	Physics	American History I	Internship/Apprenticeship		MEC 111 Machine Processes I PLTW Computer Integrated Manufacturing
Internship/Apprenticeship								
12	English IV	4 th Math Course	Elective	American History II	Internship/Apprenticeship		PLTW Computer Integrated Manufacturing	
					Internship/Apprenticeship			
COMMUNITY COLLEGE PLAN								
Year 13								
POSTSECONDARY	Fall Semester	ACA 111 College Student Success	ELC 112 DC/AC Electricity	ELC 125 Diagrams & Schematics	Humanities/Fine Arts Elective	HYD 110 Hydraulic Pneumatics I	MAT 121 Algebra & Trigonometry I	
	Spring Semester	ATR 112 Intro to Automation	CIS 110 Intro to Computers	ENG 111 Writing & Inquiry OR ENG 110 Freshman Composition	MEC 111 Machine Processes I	MNT 110 Intro to Maint. Procedures	PHY 131 Physics - Mechanics	
	Summer Semester	ELC 115 Industrial Wiring or WBL		ELC 117 Motors & Controls		ISC 112 Industrial Safety		
	Year 14							
Fall Semester	DFT 151 CAD I	ELC 128 Introduction to PLC	ENG 114 Prof. Research & Reporting OR ENG 115 Oral Communication		MAC 121 Intro to CNC or WLD 112 Basic Welding Processes		Social Science Elective	
Spring Semester	ATR 212 Industrial Robots	ELC 213 Instrumentation	ELC 228 PLC Applications		MEC 130 Mechanisms	PCI 162 Instrumentation Controls		

REQUIRED CREDIT HOURS FOR DEGREE: 76

HOURS REMAINING TO COMPLETE DEGREE: 51

RED ARTICULATED CREDIT: 7 HOURS

Yellow Recommended CTE: 18 HOURS

CLUSTERS: Architecture & Construction; Manufacturing; Science, Technology, Engineering, & Math

OCCUPATIONS: Automation Engineer, Automation Specialist, Controls Engineer, Process Engineer, Project Engineer.

AVERAGE SALARY: \$47,910

Upon completion of the pathway, the students will be awarded a **Mechatronics Engineering Certificate** from SCC