



## HIGH SCHOOL-TO-COLLEGE PATHWAY

PATHWAY: <b>MECHATRONICS ENGINEERING TECHNOLOGY</b>					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	HYD 110 Hydraulic Pneumatics I
						*Career Mgmt.	ATR 112 Intro to Automation
	10	English II	Math II	Biology	Civics & Economics		ELC 125 Diagrams & Schematics
							ISC 112 Industrial Safety
	11	English III	Math III	Physical Science	American History I	Introduction to Engineering Design	ELC 112 DC/AC Electricity
12	English IV	4 <sup>th</sup> Math Course		American History II	Principles of Engineering	Computer Integrated Manufacturing	
						MEC 111 Machine Processes I	
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	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	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**

**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