

HIGH SCHOOL-TO-COLLEGE PATHWAY

PATHWAY: COMPUTER-INTEGRATED MACHINING					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/PPT
						*PLTW Intro to Engineering Design	
	10	English II	Math II	Biology	Civics & Economics	PLTW Principles of Engineering	Microsoft Excel
	11	English III	Math III	Physics	US History I	MAC 111 Mach. Tech I	BPR 111 Print Reading MAC 124 CNC Milling
12	English IV	4 th Math Course	Elective	US History II	PLTW CIM Internship/Apprenticeship	MEC 110 Intro to CAD/CAM MAC 122 CNC Turning	
COMMUNITY COLLEGE PLAN							
Year 13							
POSTSECONDARY	Fall Semester	ACA 111 College Student Success	BPR 111 Print Reading	CIS 110 Intro to Computers	MAC 111 Machining Technology I	MAC 121 Intro to CNC	MAT 121 Algebra/Trigonometry I
	Spring Semester	BPR 121 Blueprint Reading: Mechan.	ENG 111 Writing & Inquiry OR ENG 110 Freshman Comp.	MAC 112 Machining Technology II	MAC 124 CNC Milling	MAC 151 Machining Calculations	MEC 110 Intro to CAD/CAM
	Summer Semester	MAC 113 Machining Technology III			MAC 122 CNC Turning		
	Year 14						
Fall Semester	ENG 114 Prof. Research & Report OR ENG 115 Oral Communication	MAC 152 Advanced Machining Calc	MAC 214 Machining Technology IV	MAC 222 Advanced CNC Turning	MEC 231 Comp-Aided Manuf. I		
Spring Semester	Humanities/Fine Arts Elective	ISC 112 Industrial Safety	MAC 224 Advanced CNC Milling	MEC 142 Physical Metallurgy	Social Science Elective		

REQUIRED CREDIT HOURS FOR DEGREE: 69

HOURS REMAINING TO COMPLETE DEGREE: 53

RED ARTICULATED CREDIT: 2 HOURS

Yellow Recommended CTE: 14 HOURS

OCCUPATIONS: Machinists, Computer-Controlled Machine Tool Operator, Drilling & Boring Machine Tool Setter, Grinding Machine Tool Setter, Milling Machine Setter.
AVERAGE SALARY: \$39,570

Upon completion of the pathway, the students will be awarded a **Certificate in CNC Machining** from SCC.