Mechanical Engineering Technology - Mechanical Pathway AAS (A40320A) – 68 Credit Hours 2022-2023

Fall – 1st Year				
Course Number	**Course Name**	**Lec**	**Lab**	**Credit**
CIS 110	Intro to Computers **(A)**	2	2	3
DFT 151	CAD I **(A)**	2	3	3
ENG 111	Writing and Inquiry	3	0	3
MAT 171	Precalculus Algebra	3	2	4
MAC 124	CNC Milling	1	3	2
	Social/Behavioral Science Elective	3	0	3
			Total	**18**

Fall – 2nd Year				
Course Number	**Course Name**	**Lec**	**Lab**	**Credit**
DFT 154	Intro to Solid Modeling ★ **(A)**	2	3	3
MAC 114	Introduction to Metrology	2	0	2
EGR 250	Statics and Strength of Materials	4	3	5
MEC 145	Mfg Materials I	2	3	3
PHY 151	College Physics	3	2	4
WBL 111	Work-Based Learning I	0	0	1
			Total	**18**

Major Electives (Select 3 credit hours minimum)				
Course Number	**Course Name**	**Lec**	**Lab**	**Credit**
ATR 112	Intro to Automation	2	3	3
BPR 115	Elc/Fluid Power Diagrams	1	2	2
BUS 135	Principles of Supervision	3	0	3
BUS 139	Entrepreneurship I	3	0	3
CHM 151	Chemistry	3	0	4
CSC 134	C++ Programming **(A)**	2	2	3
WBL 110	World of Work	1	0	1
WBL 115	Work-Based Learning Seminar I	1	0	1
CSC 151	JAVA Programming	2	3	3
MAT 172	Precalculus Trigonometry	3	0	4

★ - Designates classes preparing students to sit for SolidWorks CSWA exam

(A) – Students may receive credit for this course by successfully completing the articulated non-credit course, or submitting evidence of an articulated industry certification. See: https://spcc.edu/credit-articulation-at-spcc/

Spring – 1st Year				
Course Number	**Course Name**	**Lec**	**Lab**	**Credit**
DFT 152	CAD II **(A)**	2	3	3
HYD 110	Hydraulics/Pneumatics **(A)**	2	3	3
ELC 117	Motors and Controls **(A)**	2	6	4
ISC 112	Industrial Safety **(A)**	2	0	2
MAC 122	CNC Turning **(A)**	1	3	2
	Communications Elective	3	0	3
			Total	**17**

Spring – 2nd Year				
Course Number	**Course Name**	**Lec**	**Lab**	**Credit**
ELC 128	Intro to PLC	2	3	3
MEC 130	Mechanism	2	2	3
MEC 161	Manufacturing Processes I	3	0	3
	Humanities/Fine Arts Elective	3	0	3
	Major Elective			3
			Total	**15**

Major Electives (Select 3 credit hours minimum)				
Course Number	**Course Name**	**Lec**	**Lab**	**Credit**
ELN 131	Analog Electronics I	3	3	4
ELN 133	Digital Electronics	3	3	4
ISC 132	Manufacturing Quality Control	2	3	3
MAC 151	Machining Calculations	1	2	2
MEC 180	Engineering Materials	2	3	3
MEC 260	Fundamentals of Machine Design	2	3	3
CTI 120	Network and Security Foundation **(A)**	2	2	3
WLD 112	Basic Welding Process	1	3	2