

PROGRAM REQUIREMENTS
www.cvtc.edu - 1-800-547-2882

START DATE(S): June, August, October, January, and March	EFFECTIVE: June 2023
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MECHATRONICS SPECIALIST – FULL-TIME

Associate Degree

Course Number	Course Title	Credits	Prerequisite(s)/Comments
First Semester			
419-116	Basic Hydraulics	2	<u>Program student or instructor approval</u>
419-117	Basic Pneumatics	2	<u>Program student or instructor approval</u>
442-120	Related Welding- Industrial Mechanic OR	2	<u>Program student or instructor approval</u>
106-114	Customer Communication Techniques AND	1	
106-115	Customer Care Strategies	1	
462-111	Mechanical Concepts	2	<u>Program student or instructor approval</u>
462-115	Industrial PC Network Concepts	2	<u>Program student or instructor approval</u>
462-119	Industrial Mechanical Skills	2	<u>Program student or instructor approval</u>
462-130	Manufacturing Prints & Networks	1	<u>Program student or instructor approval</u>
625-180	Manufacturing Skills Standards	2	
	Total Credits	15 cr.	
Second Semester			
462-118	Industrial Electricity Principles	3	<u>Program student or instructor approval</u>
462-120	Centrifugal Pumps & Alignment	3	<u>Program student, 462-126 or concurrent, or instructor approval</u>
462-121	IOT Automated Manufacturing	4	<u>Program student, 462-118 or concurrent, or instructor approval</u>
462-123	PLC Manufacturing Applications	3	<u>Program student, 462-121 or concurrent, or instructor approval</u>
462-126	Mechanical Alignment & Bearings	2	<u>Program student, 462-111, 462-119 or concurrent, or instructor approval</u>
	Total Credits	15 cr.	
Third Semester (8 weeks)			
419-102	Hydraulic System Operations	2	<u>Program student, 419-116, or instructor approval</u>
419-118	Pneumatic System Operations	2	<u>Program student, 419-117, or instructor approval</u>
462-122	Preventative and Periodic Maintenance	1	<u>Program student, 462-111, or instructor approval</u>
462-132	Machine Troubleshooting & Repair, Advanced	2	<u>Program student, 462-120, (462-123, 419-102, 419-118 or concurrent) or instructor approval</u>
	Total Credits	7 cr.	
Fourth Semester			
462-140	Piping Systems	2	<u>Program student, 462-120, or instructor approval</u>
462-150	Building System Maintenance	2	<u>Program student, 462-123, or instructor approval</u>
801-136	English Composition 1	3	
804-134	Mathematical Reasoning	3	
	Total Credits	10 cr.	
Fifth Semester			
462-141	Process Control & Water Treatment Systems	2	<u>Program student, 462-120, 462-123, 462-140, or instructor approval</u>
462-151	New Technologies in Industrial Maintenance	2	<u>Program student, 462-120, 462-123, 462-150, or instructor approval</u>
801-197	Technical Reporting	3	<u>801-136</u>
809-195	Economics	3	
809-199	Psychology of Human Relations	3	
	Total Credits	13 cr.	

MINIMUM PROGRAM CREDITS REQUIRED = 60

2.0 MINIMUM PROGRAM CUMULATIVE GPA REQUIRED FOR GRADUATION

If a student does not enroll in any courses at CVTC for two or more consecutive semesters, the student will be required to reapply with Admissions. Students must abide by any changes in admission requirements and degree requirements.

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MECHATRONICS SPECIALIST – PART-TIME

Associate Degree

Course Number	Course Title	Credits	Prerequisite(s)/Comments
First Semester			
419-116	Basic Hydraulics	2	Program student or instructor approval
419-117	Basic Pneumatics	2	Program student or instructor approval
462-111	Mechanical Concepts	2	Program student or instructor approval
462-115	Industrial PC Network Concepts	2	Program student or instructor approval
462-119	Industrial Mechanical Skills	2	Program student or instructor approval
Total Credits		10 cr.	
Second Semester			
442-120	Related Welding- Industrial Mechanic OR	2	Program student or instructor approval
106-114	Customer Communication Techniques AND	1	
106-115	Customer Care Strategies	1	
462-130	Manufacturing Prints & Networks	1	Program student or instructor approval
625-180	Manufacturing Skills Standards	2	
462-120	Centrifugal Pumps & Alignment	3	Program student, 462-126 or concurrent, or instructor approval
462-126	Mechanical Alignment & Bearings	2	Program student, 462-111, 462-119 or concurrent, or instructor approval
Total Credits		10 cr.	
Third Semester			
462-118	Industrial Electricity Principles	3	Program student or instructor approval
462-121	IOT Automated Manufacturing	4	Program student, 462-118 or concurrent, or instructor approval
462-123	PLC Manufacturing Applications	3	Program student, 462-121 or concurrent, or instructor approval
Total Credits		10 cr.	
Fourth Semester			
419-102	Hydraulic System Operations	2	Program student, 419-116, or instructor approval
419-118	Pneumatic System Operations	2	Program student, 419-117, or instructor approval
462-122	Preventative and Periodic Maintenance	1	Program student, 462-111, or instructor approval
462-132	Machine Troubleshooting & Repair, Advanced	2	Program student, 462-120, (462-123, 419-102, 419-118 or concurrent) or instructor approval
Total Credits		7 cr.	
Fifth Semester			
462-140	Piping Systems	2	Program student, 462-120, or instructor approval
462-150	Building System Maintenance	2	Program student, 462-123, or instructor approval
804-134	Mathematical Reasoning	3	
801-136	English Composition 1	3	
Total Credits		10 cr.	
Sixth Semester			
462-141	Process Control & Water Treatment Systems	2	Program student, 462-120, 462-123, 462-140, or instructor approval
462-151	New Technologies in Industrial Maintenance	2	Program student, 462-120, 462-123, 462-150, or instructor approval
801-197	Technical Reporting	3	801-136
809-195	Economics	3	
809-199	Psychology of Human Relations	3	
Total Credits		13 cr.	

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