

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 TECHNICIAN – FULL-TIME
Technical Diploma

Course Number	Course Title	Credits	Prerequisite(s)/Comments
<u>First Semester</u>			
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	Mechanic Prints and Networks	1	<u>Program student or instructor approval</u>
625-180	Manufacturing Skills Standards	2	
Total Credits		15 cr.	
<u>Second Semester</u>			
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.	
<u>Third Semester (8 weeks)</u>			
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.	

MINIMUM PROGRAM CREDITS REQUIRED = 37

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.

PROGRAM REQUIREMENTS

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START DATE(S): June, August, October, January, and March

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MECHATRONICS TECHNICIAN – PART-TIME

Technical Diploma

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>
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>
Total Credits		10 cr.	
Second Semester			
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	
462-130	Mechanic Prints and Networks	1	<u>Program student or instructor approval</u>
625-180	Manufacturing Skills Standards	2	
462-120	Centrifugal Pumps & Alignment	3	<u>Program student, 462-126 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		10 cr.	
Third Semester			
462-118	Industrial Electricity Principles	3	<u>Program student 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>
Total Credits		10 cr.	
Fourth Semester			
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.	

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