

# Program Scorecard 2021-2022

## Mechatronics Specialist 10-462-1

Student Demographics	2021-22		2020-21		2019-20	
	Number	Percent	Number	Percent	Number	Percent
Full-Time	17	49%	9	43%	15	41%
Part-Time	18	51%	12	57%	22	59%
Students with Disabilities	1	3%	0	0%	0	0%
Students of Color	3	9%	3	14%	2	5%
Financial Aid Recipients	14	40%	4	19%	15	41%
Male	34	97%	21	100%	36	97%
Female	1	3%	0	0%	1	3%
Mean Age	30		29		29	
Median Age	29		26		24	
Mode Age	19		19		22	
Bias per WTCS (NTO*)	Female		Female		Female	
Total Program Students	35		21		37	
Total Pre-Program Students	0		0		0	

NOTE: Demographics include program students only, with the exception of financial aid

\*NTO: non-traditional occupation

Student Interest	2021-22	2020-21	2019-20	2018-19	2017-18
New Accepted Students	23	16	19	17	23
Capacity	56	52	43	43	50
Percent Capacity	41%	31%	44%	40%	46%
FTEs	21	12	24	30	30
Fall/Spring Waitlist	0	0	0	0	0

Graduate Placement	2021-22*	2020-21	2019-20	2018-19	2017-18
Graduates	6	5	14	15	6
Employed in Related Field	NA	100%	83%	100%	100%
Seeking Employment	NA	33%	0%	0%	0%
Continuing Education	NA	0%	13%	17%	0%
Survey Response Rate	NA	75%	57%	40%	83%

\*2021-22 graduate placement data is not available because graduates are surveyed 6 months to 1 year after graduation; 2021-22 data will be available spring 2023.

Wages & Openings	2020-21
CVTC Graduate Average Hourly Wage	\$24.20
CVTC Graduate Average Annual Wage	\$54,025
Regional Median Annual Wage	\$47,982
National Median Annual Wage	\$45,823
Regional Job Openings	359

CVTC Key Performance Indicator Goals		
	Goal	Actual
Graduation within 3 years	55%	43%
Job Related Placement	90%	82%
Aidable FTEs	3,865	3,722

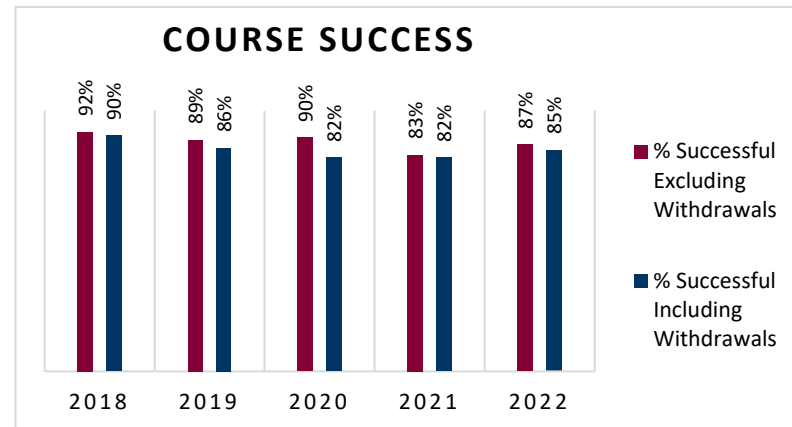
Graduation Rates	Cohort Year*					Program Target	WTCS
	2019-20	2018-19	2017-18	2016-17	2015-16		
Graduation within 3 Years	35%	35%	57%	47%	44%	51%	32%
Graduation within 4 Years	NA	35%	57%	47%	50%	51%	32%

\*Cohort year is the year the student started in the program.

Retention Rates	Academic Year					Program Target
	Fall 2021 to Fall 2022	Fall 2020 to Fall 2021	Fall 2019 to Fall 2020	Fall 2018 to Fall 2019	Fall 2017 to Fall 2018	
Fall-to-Fall Retention	59%	67%	37%	52%	68%	59%
Core Courses	2021-22	2020-21	2019-20	2018-19	2017-18	
Course Success Rate	85%	84%	83%	87%	96%	89%
Withdraw Rate	1%	0%	6%	5%	0%	NA
General Education Courses	2021-22	2020-21	2019-20	2018-19	2017-18	
Course Success Rate	89%	56%	88%	85%	75%	83%
Withdraw Rate	6%	6%	3%	3%	0%	NA

Technical Skills Attainment	2021-22	2020-21	2019-20	2018-19	2017-18
Met	7	3	5	15	12
Not Met	0	0	0	0	0
Not Assessed	1	1	1	1	0

Student Surveys	2021-22	2020-21	2019-20	2018-19	CVTC
SSI- Instructional Effectiveness by Program (scale of 1 to 7)		6.7		6.6	6.3
CCSSE- Active & Collaborative Learning by Cluster (scale of 1 to 4)	2.5				2.2



CVTC Course Success Goal: 80%

**CAREER CLUSTER**  
Manufacturing

**Mechatronics Specialist (10-462-1)**  
**2021-22 Course Success**

Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
Face-to-Face	214	32	4	250	87%	86%
Online	8	1	1	10	89%	80%
<b>Grand Total</b>	<b>222</b>	<b>33</b>	<b>5</b>	<b>260</b>	<b>87%</b>	<b>85%</b>

Course & Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
<b>419-102 Hydraulic System Operations</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>86%</b>	<b>86%</b>
Face-to-Face	6	1	0	7	86%	86%
<b>419-116 Basic Hydraulics</b>	<b>14</b>	<b>3</b>	<b>0</b>	<b>17</b>	<b>82%</b>	<b>82%</b>
Face-to-Face	14	3	0	17	82%	82%
<b>419-117 Basic Pneumatics</b>	<b>12</b>	<b>3</b>	<b>1</b>	<b>16</b>	<b>80%</b>	<b>75%</b>
Face-to-Face	12	3	1	16	80%	75%
<b>419-118 Pneumatic System Operations</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>86%</b>	<b>86%</b>
Face-to-Face	6	1	0	7	86%	86%
<b>442-120 Related Welding-Indust Mech</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	15	0	0	15	100%	100%
<b>462-111 Mechanical Concepts</b>	<b>13</b>	<b>5</b>	<b>1</b>	<b>19</b>	<b>72%</b>	<b>68%</b>
Face-to-Face	13	5	1	19	72%	68%
<b>462-115 Industrial PC Network Concepts</b>	<b>13</b>	<b>3</b>	<b>0</b>	<b>16</b>	<b>81%</b>	<b>81%</b>
Face-to-Face	13	3	0	16	81%	81%
<b>462-118 Industrial Electric Principles</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	14	0	0	14	100%	100%
<b>462-119 Industrial Mechanical Skills</b>	<b>10</b>	<b>3</b>	<b>1</b>	<b>14</b>	<b>77%</b>	<b>71%</b>
Face-to-Face	10	3	1	14	77%	71%
<b>462-120 Centrifugal Pumps &amp; Alignment</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	13	0	0	13	100%	100%
<b>462-121 IOT Automated Manufacturing</b>	<b>14</b>	<b>1</b>	<b>0</b>	<b>15</b>	<b>93%</b>	<b>93%</b>
Face-to-Face	14	1	0	15	93%	93%
<b>462-122 Prev and Periodic Maintenance</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>83%</b>	<b>83%</b>
Face-to-Face	5	1	0	6	83%	83%

**Mechatronics Specialist (10-462-1)**  
**2021-22 Course Success**

<b>Course &amp; Delivery Method</b>	<b>Successful Count</b>	<b>Unsuccessful Count</b>	<b>Withdrawal Count</b>	<b>Enrollment Count</b>	<b>% Successful Excluding Withdrawals</b>	<b>% Successful Including Withdrawals</b>
<b>462-123 PLC Manufacturing Applications</b>	<b>14</b>	<b>1</b>	<b>0</b>	<b>15</b>	<b>93%</b>	<b>93%</b>
Face-to-Face	14	1	0	15	93%	93%
<b>462-126 Mechanical Alignment &amp; Bearing</b>	<b>12</b>	<b>1</b>	<b>0</b>	<b>13</b>	<b>92%</b>	<b>92%</b>
Face-to-Face	12	1	0	13	92%	92%
<b>462-130 Mfg Prints &amp; Networks</b>	<b>12</b>	<b>2</b>	<b>0</b>	<b>14</b>	<b>86%</b>	<b>86%</b>
Face-to-Face	12	2	0	14	86%	86%
<b>462-132 Mach Trbleshting &amp; Repair Adv</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>83%</b>	<b>83%</b>
Face-to-Face	5	1	0	6	83%	83%
<b>462-140 Piping Systems</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>80%</b>	<b>80%</b>
Face-to-Face	4	1	0	5	80%	80%
<b>462-141 Process Ctrl &amp; Wtr Trtmt Sys</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>83%</b>	<b>83%</b>
Face-to-Face	5	1	0	6	83%	83%
<b>462-150 Building System Maintenance</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>80%</b>	<b>80%</b>
Face-to-Face	4	1	0	5	80%	80%
<b>462-151 New Technologies in Ind. Maint</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>86%</b>	<b>86%</b>
Face-to-Face	6	1	0	7	86%	86%
<b>625-180 Manufacturing Skills Standards</b>	<b>11</b>	<b>2</b>	<b>1</b>	<b>14</b>	<b>85%</b>	<b>79%</b>
Face-to-Face	11	2	1	14	85%	79%
<b>801-136 English Composition 1</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>100%</b>	<b>67%</b>
Face-to-Face	2	0	0	2	100%	100%
Online	0	0	1	1		0%
<b>801-197 Technical Reporting</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100%</b>	<b>100%</b>
Online	2	0	0	2	100%	100%
<b>804-134 Mathematical Reasoning</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>80%</b>	<b>80%</b>
Face-to-Face	3	0	0	3	100%	100%
Online	1	1	0	2	50%	50%
<b>809-195 Economics</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	1	0	0	1	100%	100%
Online	2	0	0	2	100%	100%
<b>809-199 Psychology of Human Relations</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>100%</b>	<b>100%</b>
Online	3	0	0	3	100%	100%
<b>Grand Total</b>	<b>222</b>	<b>33</b>	<b>5</b>	<b>260</b>	<b>87%</b>	<b>85%</b>