Program Scorecard 2022-23
Mechanical Design Technology 10-606-1

Student Demographics	2022-23		2021-22		2020-21	
	Number	Percent	Number	Percent	Number	Percent
Full-Time	17	40%	21	57%	27	69%
Part-Time	25	60%	11	30%	12	31%
Students with Disabilities	5	12%	2	6%	0	0%
Students of Color	4	10%	2	6%	1	3%
Financial Aid Recipients	15	38%	15	41%	20	48%
Male	36	86%	28	88%	33	85%
Female	6	14%	4	13%	6	15%
Mean Age	29		30		29	
Median Age	25		25		24	
Mode Age	19		19		20	
Bias per WTCS (NTO*)	Female		Female		Female	
Total Program Students	42		32		39	
Total Pre-Program Students	1		5		3	

NOTE: Demographics include program students only, with the exception of financial aid
*NTO: non-traditional occupation

Graduation Rates	Cohort Year*					Program Target	WTCS
	2020-21	2019-20	2018-19	2017-18	2016-17		
Graduation within 3 Years	50%	43%	58%	56%	NA	62%	29%
Graduation within 4 Years	NA	43%	61%	63%	NA	67%	34%

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

Retention Rates	Academic Year					Program Target
	Fall 2022 to Fall 2023	Fall 2021 to Fall 2022	Fall 2020 to Fall 2021	Fall 2019 to Fall 2020	Fall 2018 to Fall 2019	
Fall-to-Fall Retention	61%	55%	73%	56%	77%	66%
Core Courses	2022-23	2021-22	2020-21	2019-20	2018-19	
Course Success Rate	83%	82%	93%	82%	92%	91%
Withdraw Rate	2%	1%	2%	4%	0%	NA
General Education Courses	2022-23	2021-22	2020-21	2019-20	2018-19	
Course Success Rate	73%	71%	74%	70%	67%	77%
Withdraw Rate	10%	7%	12%	5%	10%	NA

Student Interest	2022-23	2021-22	2020-21	2019-20	2018-19
New Accepted Students	30	16	23	28	31
Capacity	34	32	32	34	36
Percent Capacity	88%	50%	72%	82%	86%
FTEs	29	25	30	42	34
Fall/Spring Waitlist	0	0	0	0	0

Technical Skills Attainment	2022-23	2021-22	2020-21	2019-20	2018-19
Met	3	6	11	14	6
Not Met	0	0	0	1	0
Not Assessed	0	0	0	0	0

Graduate Placement	2022-23*	2021-22	2020-21	2019-20	2018-19
Graduates	6	13	13	17	10
Employed in Related Field	NA	83%	100%	50%	100%
Seeking Employment	NA	14%	0%	60%	33%
Continuing Education	NA	13%	0%	50%	25%
Survey Response Rate	NA	62%	54%	59%	40%

*2022-23 graduate placement data is not available because graduates are surveyed 6 months to 1 year after graduation; 2022-23 data will be available spring 2024.

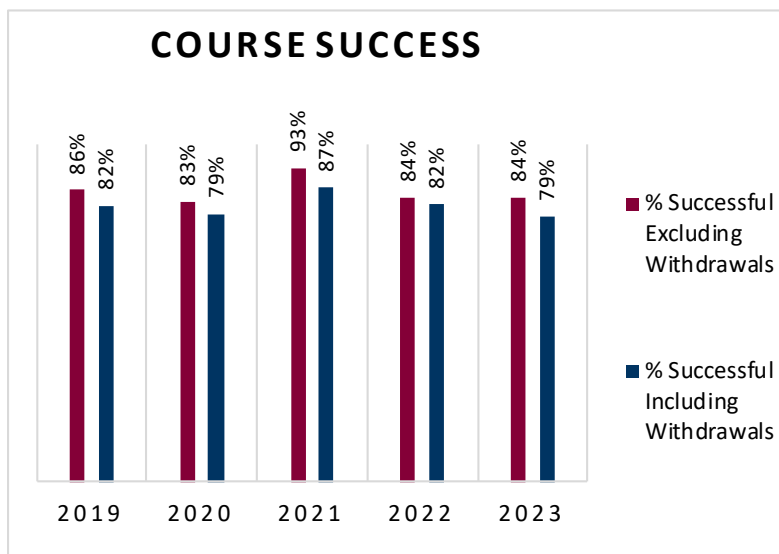| Wages & Openings	2021-22
CVTC Graduate Average Hourly Wage	$24.50
CVTC Graduate Average Annual Wage	$52,116
Regional Median Annual Wage	$55,788
Regional Job Openings	25

CVTC Key Performance Indicator Goals	Goal	Actual
Graduation within 3 years	55%	43%
Job Related Placement	90%	82%
Aidable FTEs	3,865	3,835

COURSE SUCCESS

	2019	2020	2021	2022	2023
% Successful Excluding Withdrawals	86%	83%	93%	84%	84%
% Successful Including Withdrawals	82%	79%	87%	82%	79%

CVTC Course Success Goal: 80%

CAREER CLUSTER
Science, Technology, Engineering, & Math

Mechanical Design Technology (10-606-1)
2022-23 Course Success

Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
Blended (less than 50% online)	19	1	0	20	95%	95%
Face-to-Face	111	24	4	139	82%	80%
Hybrid (50% or more online)	7	1	0	8	88%	88%
MyChoice	11	5	1	17	69%	65%
Online	113	17	18	148	87%	76%
Grand Total	**261**	**48**	**23**	**332**	**84%**	**79%**

Course & Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
606-103 Mechanical Design Concepts	**18**	**6**	**4**	**28**	**75%**	**64%**
Face-to-Face	10	4	1	15	71%	67%
Online	8	2	3	13	80%	62%
606-104 Geometric Dimen & Tolerancing	**16**	**0**	**1**	**17**	**100%**	**94%**
Face-to-Face	10	0	0	10	100%	100%
Online	6	0	1	7	100%	86%
606-112 Tool Design Practices	**7**	**1**	**0**	**8**	**88%**	**88%**
Face-to-Face	5	1	0	6	83%	83%
Online	2	0	0	2	100%	100%
606-118 Mechanisms	**6**	**1**	**1**	**8**	**86%**	**75%**
Face-to-Face	3	1	0	4	75%	75%
Online	3	0	1	4	100%	75%
606-121 Mechanical Design Proj Mgmt	**7**	**1**	**1**	**9**	**88%**	**78%**
Face-to-Face	5	1	1	7	83%	71%
Online	2	0	0	2	100%	100%
606-123 Mechanism Design	**3**	**2**	**0**	**5**	**60%**	**60%**
Online	3	2	0	5	60%	60%
606-127 Machine Design	**6**	**0**	**0**	**6**	**100%**	**100%**
Online	6	0	0	6	100%	100%
606-130 Solid Modeling I	**17**	**8**	**2**	**27**	**68%**	**63%**

Mechanical Design Technology (10-606-1)
2022-23 Course Success

Course & Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
Face-to-Face	9	5	0	14	64%	64%
MyChoice	0	1	0	1	0%	0%
Online	8	2	2	12	80%	67%
606-132 Statics	**14**	**2**	**0**	**16**	**88%**	**88%**
Face-to-Face	9	2	0	11	82%	82%
Online	5	0	0	5	100%	100%
606-136 Solid Modeling 2	**16**	**1**	**0**	**17**	**94%**	**94%**
Face-to-Face	10	0	0	10	100%	100%
Online	6	1	0	7	86%	86%
606-137 Mfg. Materials Processes	**14**	**0**	**0**	**14**	**100%**	**100%**
Face-to-Face	10	0	0	10	100%	100%
Online	4	0	0	4	100%	100%
606-140 Strength of Materials	**8**	**0**	**0**	**8**	**100%**	**100%**
Face-to-Face	4	0	0	4	100%	100%
Online	4	0	0	4	100%	100%
606-142 Additive Manufacturing	**22**	**4**	**3**	**29**	**85%**	**76%**
Face-to-Face	11	3	1	15	79%	73%
Online	11	1	2	14	92%	79%
606-151 Capstone Design Project	**3**	**0**	**0**	**3**	**100%**	**100%**
Hybrid (50% or more online)	3	0	0	3	100%	100%
606-152 PLC & Fluid Power Application	**13**	**1**	**0**	**14**	**93%**	**93%**
Blended (less than 50% online)	9	1	0	10	90%	90%
Online	4	0	0	4	100%	100%
606-159 CAD, 2D	**15**	**7**	**3**	**25**	**68%**	**60%**
Face-to-Face	8	4	1	13	67%	62%
Online	7	3	2	12	70%	58%
623-117 Intro to Precision Measurement	**17**	**0**	**0**	**17**	**100%**	**100%**
Blended (less than 50% online)	10	0	0	10	100%	100%
Online	7	0	0	7	100%	100%
623-119 Advanced Inspection Techniques	**6**	**1**	**0**	**7**	**86%**	**86%**
Hybrid (50% or more online)	4	1	0	5	80%	80%

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2022-23 Course Success

Course & Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
Online	2	0	0	2	100%	100%
801-136 English Composition 1	**10**	**3**	**2**	**15**	**77%**	**67%**
MyChoice	2	1	0	3	67%	67%
Online	8	2	2	12	80%	67%
801-197 Technical Reporting	**6**	**0**	**0**	**6**	**100%**	**100%**
Face-to-Face	5	0	0	5	100%	100%
Online	1	0	0	1	100%	100%
804-115 College Technical Math 1	**14**	**6**	**3**	**23**	**70%**	**61%**
MyChoice	9	3	1	13	75%	69%
Online	5	3	2	10	63%	50%
806-154 General Physics 1	**12**	**4**	**3**	**19**	**75%**	**63%**
Face-to-Face	8	3	0	11	73%	73%
Online	4	1	3	8	80%	50%
809-195 Economics	**7**	**0**	**0**	**7**	**100%**	**100%**
Face-to-Face	2	0	0	2	100%	100%
Online	5	0	0	5	100%	100%
809-199 Psychology of Human Relations	**4**	**0**	**0**	**4**	**100%**	**100%**
Face-to-Face	2	0	0	2	100%	100%
Online	2	0	0	2	100%	100%
Grand Total	**261**	**48**	**23**	**332**	**84%**	**79%**