

# Program Scorecard 2022-23

## Machine Tooling Technics 32-420-5

Student Demographics	2022-23		2021-22		2020-21	
	Number	Percent	Number	Percent	Number	Percent
Full-Time	15	50%	26	93%	38	95%
Part-Time	15	50%	2	7%	2	5%
Students with Disabilities	2	7%	2	7%	2	5%
Students of Color	0	0%	0	0%	1	3%
Financial Aid Recipients	10	38%	11	39%	17	43%
Male	29	97%	26	93%	36	90%
Female	1	3%	2	7%	4	10%
Mean Age	27		28		27	
Median Age	21		21		21	
Mode Age	20		20		19	
Bias per WTCS (NTO*)	Female		Female		Female	
Total Program Students	30		28		40	
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	2022-23	2021-22	2020-21	2019-20	2018-19
New Accepted Students	14	11	15	27	31
Capacity	30	32	31	37	41
Percent Capacity	47%	34%	48%	73%	76%
FTEs	21	26	35	47	54
Fall/Spring Waitlist	3	0	0	1	0

Graduate Placement	2022-23*	2021-22	2020-21	2019-20	2018-19
Graduates	12	15	20	20	17
Employed in Related Field	NA	100%	88%	91%	100%
Seeking Employment	NA	0%	0%	8%	0%
Continuing Education	NA	10%	20%	0%	0%
Survey Response Rate	NA	67%	59%	65%	41%

\*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	\$23.24
CVTC Graduate Average Annual Wage	\$49,490
Regional Median Annual Wage	\$40,663
Regional Job Openings	167

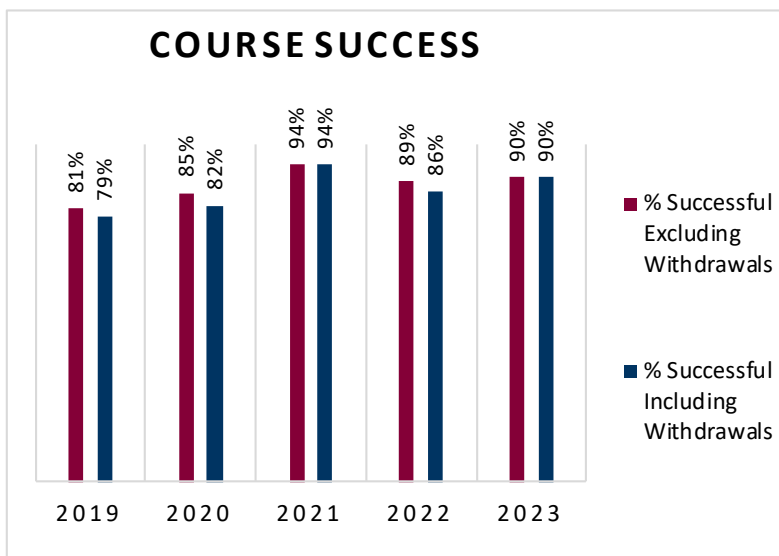
CVTC Key Performance Indicator Goals		
	Goal	Actual
Graduation within 3 years	55%	43%
Job Related Placement	90%	82%
Aidable FTEs	3,865	3,835

Graduation Rates	Cohort Year*					Program Target	WTCS
	2020-21	2019-20	2018-19	2017-18	2016-17		
Graduation within 3 Years	74%	53%	47%	64%	56%	61%	55%
Graduation within 4 Years	NA	53%	50%	68%	56%	63%	55%

\*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	70%	67%	73%	68%	54%	74%
Core Courses	2022-23	2021-22	2020-21	2019-20	2018-19	
Course Success Rate	90%	87%	94%	86%	80%	94%
Withdraw Rate	0%	1%	0%	3%	1%	NA
General Education Courses	2022-23	2021-22	2020-21	2019-20	2018-19	
Course Success Rate	84%	NA	NA	80%	71%	NA
Withdraw Rate	2%	NA	NA	7%	4%	NA

Technical Skills Attainment	2022-23	2021-22	2020-21	2019-20	2018-19
Met	8	15	20	8	21
Not Met	0	0	0	0	0
Not Assessed	0	0	0	0	0



CVTC Course Success Goal: 80%

**CAREER CLUSTER**  
*Manufacturing*

**Machine Tooling Technics (32-420-5)**

**2022-23 Course Success**

Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Excluding Withdrawals
Face-to-Face	153	17	0	170	90%	90%
<b>Grand Total</b>	<b>153</b>	<b>17</b>	<b>0</b>	<b>170</b>	<b>90%</b>	<b>90%</b>

Course & Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Excluding Withdrawals
<b>420-300 Machine Shop Theory</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>12</b>	<b>92%</b>	<b>92%</b>
Face-to-Face	11	1	0	12	92%	92%
<b>420-310 CNC Programming Theory</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	5	0	0	5	100%	100%
<b>420-321 Manual Turning Processes</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>12</b>	<b>92%</b>	<b>92%</b>
Face-to-Face	11	1	0	12	92%	92%
<b>420-322 Manual Milling Processes</b>	<b>10</b>	<b>1</b>	<b>0</b>	<b>11</b>	<b>91%</b>	<b>91%</b>
Face-to-Face	10	1	0	11	91%	91%
<b>420-325 Basic CNC Mill Programming</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	5	0	0	5	100%	100%
<b>420-326 Adv CNC Mill &amp; Grinding Proc</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>89%</b>	<b>89%</b>
Face-to-Face	8	1	0	9	89%	89%
<b>420-330 Basic CNC Lathe Programming</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>420-331 Advanced CNC Turning Processes</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>89%</b>	<b>89%</b>
Face-to-Face	8	1	0	9	89%	89%
<b>420-332 CNC Equations 1</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>12</b>	<b>75%</b>	<b>75%</b>
Face-to-Face	9	3	0	12	75%	75%
<b>420-333 CNC Equations 2</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	5	0	0	5	100%	100%
<b>420-341 Materials for Machinists</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	6	0	0	6	100%	100%
<b>420-352 Advanced Technologies in Mfg</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>89%</b>	<b>89%</b>
Face-to-Face	8	1	0	9	89%	89%

**Machine Tooling Technics (32-420-5)**

**2022-23 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 Excluding Withdrawals</b>
<b>420-353 CAM for CNC Lathe</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>9</b>	<b>78%</b>	<b>78%</b>
Face-to-Face	7	2	0	9	78%	78%
<b>420-355 Competitive Machining Techniqs</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>89%</b>	<b>89%</b>
Face-to-Face	8	1	0	9	89%	89%
<b>420-373 Precision Measurement</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>12</b>	<b>92%</b>	<b>92%</b>
Face-to-Face	11	1	0	12	92%	92%
<b>420-379 Job Skills for Manufacturing</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>9</b>	<b>78%</b>	<b>78%</b>
Face-to-Face	7	2	0	9	78%	78%
<b>420-380 2-D CAM</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	5	0	0	5	100%	100%
<b>420-385 Advanced Machine Concepts</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	8	0	0	8	100%	100%
<b>444-352 Multi-Axis CAD/CAM</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	8	0	0	8	100%	100%
<b>444-367 MasterCam Advanced</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>89%</b>	<b>89%</b>
Face-to-Face	8	1	0	9	89%	89%
<b>Grand Total</b>	<b>153</b>	<b>17</b>	<b>0</b>	<b>170</b>	<b>90%</b>	<b>90%</b>