

# Program Scorecard 2018-2019

## Air Conditioning, Heating, and Refrigeration Tech 31-401-1

Student Demographics	2018-19		2017-18		2016-17	
	Number	Percent	Number	Percent	Number	Percent
Full-Time	40	80%	11	79%	18	78%
Part-Time	10	20%	3	21%	5	22%
Disabilities	3	6%	1	7%	0	0%
Minorities	3	6%	1	7%	2	9%
Financial Aid	26	52%	5	5%	12	52%
Male	48	96%	14	100%	23	100%
Female	2	4%	0	0%	0	0%
Mean Age	26		25		30	
Median Age	21		24		25	
Mode Age	19		20		19	
Bias per WTCS (NTO)	Female		Female		Female	
Total Program Students	50		14		23	
Total Pre-Program Students	0		0		0	

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

Student Interest	2018-19	2017-18	2016-17	2015-16	2014-15
New Accepted Students	50	8	14	10	14
Capacity	61	13	14	21	21
Percent Capacity	82%	62%	100%	48%	67%
FTEs	46	23	31	12	13
Fall/Spring Waitlist	0	0	0	0	0

Graduate Placement	2018-19	2017-18	2016-17	2015-16	2014-15
Graduates	29	18	22	7	10
Employed in Related Field	NA	86%	89%	100%	80%
Seeking Employment	NA	13%	18%	0%	0%
Continuing Education	NA	47%	42%	17%	29%
Survey Response Rate	NA	83%	86%	86%	70%

Wages & Openings	2017-18
CVTC Graduate Average Hourly Wage	\$17.99
CVTC Graduate Average Yearly Wage	\$41,167
Regional Entry Level Yearly Wage	\$31,693
Regional Job Openings	44

CVTC Key Performance Indicator Goals		
	Goal	Actual
Graduation within 2 years	80%	72%
Job Related Placement	90%	87%
Aidable FTEs	3,984	3,832

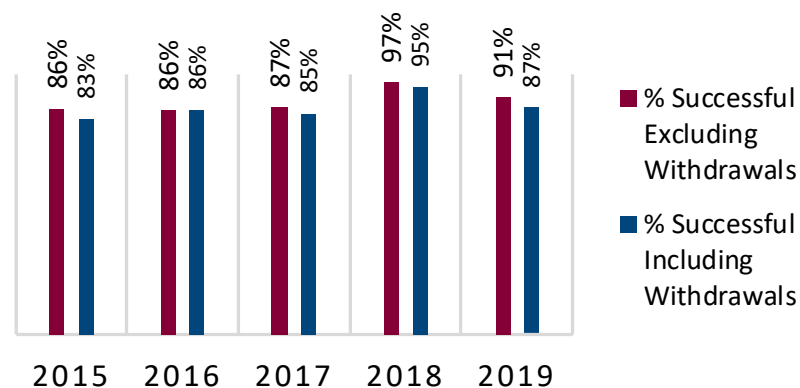
Graduation Rates	Cohort Year					3 Year Program Target	WTCS
	2017-18	2016-17	2015-16	2014-15	2013-14		
Graduation within 2 Years	86%	79%	58%	53%	63%	79%	64%

Retention Rates	Academic Year					3 Year Program Target
	Fall 2018 to Spring 2019	Fall 2017 to Spring 2018	Fall 2016 to Spring 2017	Fall 2015 to Spring 2016	Fall 2014 to Spring 2015	
Semester-to-Semester	87%	80%	84%	75%	77%	89%
Core Courses	2018-19	2017-18	2016-17	2015-16	2014-15	
Course Success Rate	88%	96%	86%	88%	84%	95%
Withdraw Rate	4%	2%	2%	6%	4%	NA
General Education Courses	2018-19	2017-18	2016-17	2015-16	2014-15	
Course Success Rate	80%	86%	78%	60%	77%	86%
Withdraw Rate	6%	4%	2%	0%	6%	NA

Technical Skills Attainment	2018-19	2017-18	2016-17	2015-16	2014-15
Met	28	27	26	0	0
Not Met	0	0	3	0	0
Not Assessed	6	0	3	0	0

Student Surveys	2018-19	2017-18	2016-17	2015-16	CVTC
SSI- Instructional Effectiveness by Program (scale of 1 to 7)	6.4		6.4		6.3
CCSSE- Active & Collaborative Learning by Cluster (scale of 1 to 4)		2.4		2.5	2.4

### COURSE SUCCESS



■ % Successful Excluding Withdrawals  
 ■ % Successful Including Withdrawals

CVTC Course Success Goal: 80%

**CAREER CLUSTER**  
*Architecture & Construction*

**Air Conditioning, Heating, and Refrigeration Tech. (31-401-1)**  
**2018-19 Course Success**

Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
Face-to-Face	664	64	31	759	91%	87%
Online	0	1	0	1	0%	0%
<b>Grand Total</b>	<b>664</b>	<b>65</b>	<b>31</b>	<b>760</b>	<b>91%</b>	<b>87%</b>

Course & Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
<b>Face-to-Face</b>	<b>664</b>	<b>64</b>	<b>31</b>	<b>759</b>	<b>91%</b>	<b>87%</b>
601-105 Refrigeration Principles	28	4	2	34	88%	82%
601-106 Refrigeration Theory	39	0	2	41	100%	95%
601-107 Heating Theory	35	2	2	39	95%	90%
601-108 Pncples of Gas Heat & Airfl	33	1	0	34	97%	97%
601-109 Prin of Oil, Elec & Hydron Htg	32	3	2	37	91%	86%
601-116 Principles of Air Conditioning	33	1	0	34	97%	97%
601-118 Sustainability for HVAC	37	1	2	40	97%	93%
601-121 HVAC/R Service & Applications	24	6	2	32	80%	75%
601-122 HVACR Industry Skills	29	1	2	32	97%	91%
601-125 Safety - HVAC	34	4	2	40	89%	85%
601-130 Sheet Metal Layout	31	4	1	36	89%	86%
601-140 Electricity Theory	43	1	2	46	98%	93%
601-144 Solar/Wind Applications	35	2	0	37	95%	95%
601-145 Geothermal Applications	30	4	0	34	88%	88%
601-146 Schematic Wiring-HVACR	26	6	2	34	81%	76%
601-147 Schematic Wiring-Trblshtng	28	4	0	32	88%	88%
601-148 Electricity Principles	41	3	2	46	93%	89%
601-151 Technical Problems-HVAC	26	4	2	32	87%	81%
601-161 HVAC Load Calc & Psychrometric	31	5	2	38	86%	82%
605-108 Devices and Digital	1	0	0	1	100%	100%
801-196 Oral/Interpersonal Comm	20	3	2	25	87%	80%
804-134 Mathematical Reasoning	28	5	2	35	85%	80%
<b>Online</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0%</b>	<b>0%</b>
801-196 Oral/Interpersonal Comm	0	1	0	1	0%	0%
<b>Grand Total</b>	<b>664</b>	<b>65</b>	<b>31</b>	<b>760</b>	<b>91%</b>	<b>87%</b>