




# Post-secondary transitions among students in dual enrolment courses

March 3, 2022 Dual Credit Articulation Committee Meeting  
Advanced Education Dual Credit Data Update Presentation



# Purpose (Phase 1)

- ▶ Understand the benefits of dual credit programming currently offered in high schools.
  - ▶ What types of credentials are dual enrolment students enrolling in?
  - ▶ How are students using these credits and credentials when transitioning full-time into post-secondary education?
  - ▶ Which programs are most popular among students with a dual enrolment?



# What are Dual Credit Programs?

- Dual credit is career-based high school programming that can assist students in making meaningful transitions to post-secondary education or the workplace.
- Dual credit programming allows Grade 10, 11, or 12 students to earn high school and post-secondary credits at the same time.
- These credits can count toward a post-secondary certificate, diploma, or degree, including a journeyperson certificate.



# Data Sources

- ▶ Education – Student school enrolment (for the primary registration flag)
- ▶ Education – Student course (for dual enrolment and breakdown of course type)
- ▶ Advanced Education – Student enrolment (Learner and Enrolment Reporting System (LERS))



# Methodology

- Used the studentschoolenrolment table for the primary registration flag
- Grade 10 cohort and applying Dual Enrolment Flag (DEF) and CTS
- Use a student's first appearance in grade 10 as a defining attribute
- Track them over four years (2017-2018 to 2020-2021) to see whether they appear/transition to post-secondary enrolment in LERS
- Only course enrolments with age less than or equal to 19 years old included in the analysis

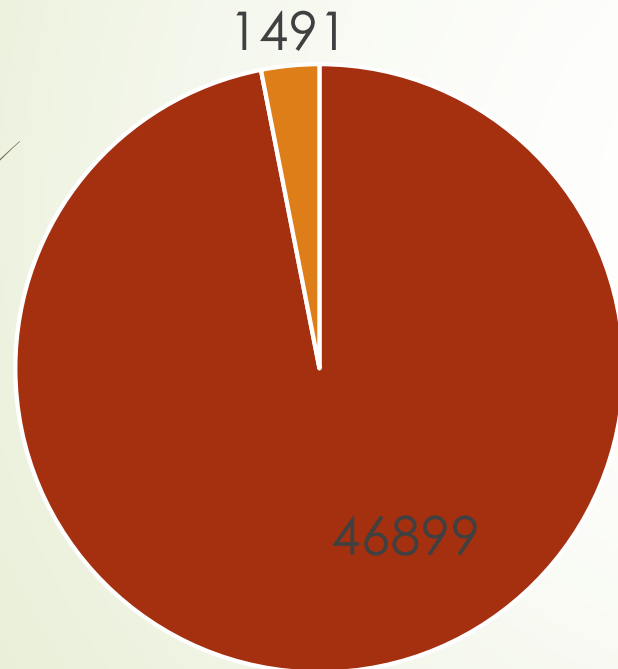


# Record Linkage

- ▶ Number of unique students with a grade 10 primary registration flag of Y in 2017-2018 = 48,868
  - ▶ After linking with course enrolment table, this number drops to 47,501
- ▶ Records were only joined with LERS data greater than or equal to 2017-2018
  - ▶ In total 13, 824 students appeared in both LERS and the grade 10 cohort

# Number with at least one DEF

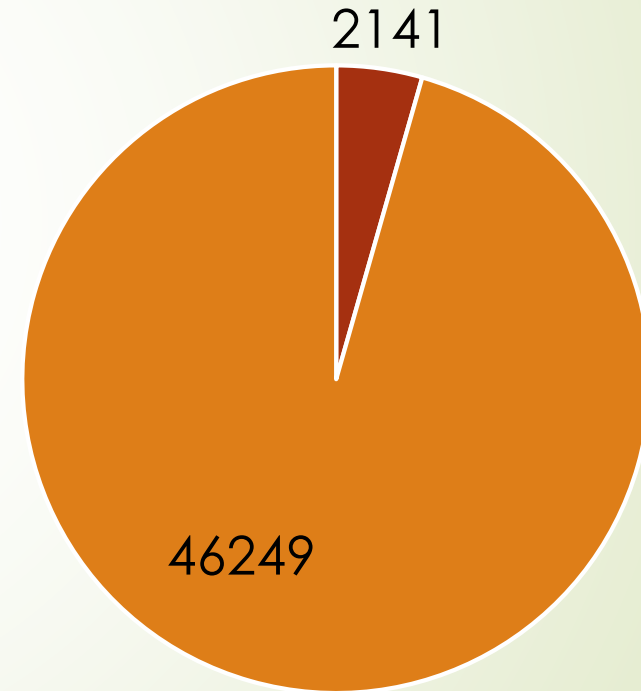
Number of students from the grade 10 cohort with at least one dual enrolment course during high school



■ No Dual Enrolment ■ Dual Enrolment

# Number with at least one CTS

Number of students from the grade 10 cohort with at least one CTS enrolment during high school



■ No CTS Course Enrolments ■ At least one CTS Course

# Transitions to credentialed programs for DEF students

Dual Enrolment Status	No Transition	Certificate	Degree	Diploma	Non-Credential	Grand Total
No Dual enrolment	34218	961	7579	1823	2564	46899
At least one dual enrolment	138	300	421	118	1064	1491
<b>Grand Total</b>	<b>34356</b>	<b>1261</b>	<b>8000</b>	<b>1941</b>	<b>3628</b>	<b>48390</b>

Dual Enrolment Status	No Transition	Certificate	Degree	Diploma	Non-Credential	Grand Total
No Dual enrolment	73%	2%	16%	4%	5%	100%
At least one dual enrolment	9%	20%	28%	8%	71%	100%
<b>Grand Total</b>	<b>71%</b>	<b>3%</b>	<b>17%</b>	<b>4%</b>	<b>8%</b>	<b>100%</b>





# By Post-secondary Provider

(Education data)

Post-secondary provider	Distinct number of students	Percentage of total
University of Calgary	282	19%
Bow Valley College	249	17%
NorQuest College	203	14%
Lakeland College	177	12%
Southern Alberta Institute of Technology	125	8%
Olds College	117	8%
University of Lethbridge	74	5%
Northern Lakes College	65	4%
Red Deer College	51	3%
Mount Royal University	33	2%
Alberta University of the Arts	25	2%



# By School Authority

School Authority	Distinct number of students	Percentage of total
The Calgary School Division	444	30%
The Edmonton Catholic Separate School Division	132	9%
The Chinook's Edge School Division	83	6%
The Calgary Roman Catholic Separate School Division	82	6%
The Lethbridge School Division	56	4%
The Edmonton School Division	53	4%
The Red Deer Catholic Separate School Division	50	3%
The East Central Alberta Catholic Separate School Division	44	3%
The Christ the Redeemer Catholic Separate School Division	38	3%
The High Prairie School Division	37	2%
The Palliser School Division	35	2%
The Buffalo Trail School Division	33	2%
The Black Gold School Division	30	2%
The Northern Gateway School Division	30	2%



# Programs of Choice

Advanced Education's Programs	Distinct count of students
Open Studies	1038
Bachelor of Science	143
Bachelor of Arts	140
(blank)	133
Health Care Aide	93
Pre-Employment	53
Pharmacy Assistant	41
Bachelor of Commerce	31
Veterinary Technical Assistant	29
Business Administration	25
Academic Upgrading	22
Bachelor of Science in Engineering	20
Apprenticeship	16
Practical Nurse	12
Medical Laboratory Technology	12
Liberal Arts and Sciences	11
Bachelor of Nursing	11
Power Engineering	11
Bachelor of Management	9
Educational Assistant	9
Practical Nurse Diploma	8

# Completion Status

Completion status by DEF	(blank)	2017	2018	2019	2020	Grand Total
<b>No Dual Enrolment</b>	<b>34218</b>	<b>18</b>	<b>76</b>	<b>223</b>	<b>12532</b>	<b>46899</b>
(blank)	34218					34218
Completed		1	3	6	231	241
Other		17	76	218	12484	12639
<b>At least one Dual Enrolment</b>	<b>138</b>	<b>69</b>	<b>494</b>	<b>809</b>	<b>752</b>	<b>1491</b>
(blank)	138					138
Completed		1	2	50	82	135
Other		68	493	785	709	1348
<b>Grand Total</b>	<b>34356</b>	<b>87</b>	<b>570</b>	<b>1032</b>	<b>13284</b>	<b>48390</b>

Completion status by DEF	(blank)	2017	2018	2019	2020
<b>No Dual Enrolment</b>	<b>73%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>27%</b>
(blank)	100%	0%	0%	0%	0%
Completed	0%	0%	1%	2%	96%
Other	0%	0%	1%	2%	99%
<b>At least one Dual Enrolment</b>	<b>9%</b>	<b>5%</b>	<b>33%</b>	<b>54%</b>	<b>50%</b>
(blank)	100%	0%	0%	0%	0%
Completed	0%	1%	1%	37%	61%
Other	0%	5%	37%	58%	53%
<b>Grand Total</b>	<b>71%</b>	<b>0%</b>	<b>1%</b>	<b>2%</b>	<b>27%</b>

# Programs that Dual-enrolment students completed within four years of starting grade 10

Advanced Education programs	Distinct Count of Students
Health Care Aide	54
Pre-Employment	19
Veterinary Technical Assistant	18
Pharmacy Assistant	17
Health Care Aide 2019	6
Educational Assistant	4
Health Care Aide (2019)	3
Pre-Health Sciences	2
Power Engineering	2
Nutrition for Healthy Lifestyles	2
Graphic Communications	1
Special Needs Educational Assistant	1
Heavy Oil Operations Technician	1
Apprenticeship	1
Veterinary Medical Assistant	1
Health Care Aide - Government of Alberta	1
Administrative Professional	1
Business Management	1
<b>Total</b>	<b>135</b>



# Summary

- This is phase 1 analysis only, with data highlights being shared.
- Dual course enrolment programs are effective in:
  - Supporting transitions into post-secondary education
  - Assist in faster completions of certificate programs
- Most frequent programs that these students transition to include Open Studies, Bachelor of Science, Bachelor of Arts, Health Care Aide
- Majority of dual enrolled students are at Comprehensive Community Colleges, University of Calgary, and SAIT



# Limitations and Challenges

- ▶ Not all data reconcile between Student enrolment data and course database.
  - ▶ For example, some students who were part of the 2017-2018 cohort did not have any corresponding course enrolment records in the cohort year (i.e. 2017-2018)
- ▶ Need an end point identifier for high school so we know for sure what % transitioned while still in high school or after.
- ▶ A limitation of the analysis is that it only captures enrolment in Alberta post-secondary institutions.



# Next Steps

- ▶ Analyze Phase 2 Questions, including:
  - ▶ Pathway completion rate: What percentage of high school students enroll in a pathway but do not complete? And is that percentage increasing/decreasing?
  - ▶ Pathway transition rate: What percentage of pathway completers successfully transition into an apprenticeship (as measured by their appearance in the ATOMS database)?
  - ▶ Upon registration in an apprenticeship, are pathway completers more likely to complete an apprenticeship faster than those that never enrolled in a high school pathway?
  - ▶ Do pathway completers register in an apprenticeship that aligns with the apprenticeship pathway in high school? To what extent?