

# Multi Divisional Approaches to Career Pathways

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# CACI - The Central Alberta Collegiate Institute



# The Pathway Partnership of Southern Alberta





**As a division what are your strengths?**  
*What are you truly good at?*

**“Me to We” - move away from developing programs specific to our divisions**



# Collegiate Partnerships

## Partnership Example

### Post Secondary

- program development and delivery

### School Divisions

- complimentary program delivery
- school, student and teacher engagement

### Industry

- program delivery support

### Community Partners

- program delivery support
- program delivery support

# Who are potential partners?

- As school divisions and as a collegiates we had to find partners who we can work with to create pathway opportunities for students.

*Who could be your potential partners??*



# Origins - CACI

*Over 10 years of collaborative work together*

**SWAC**

*School Within A College*

**Recognition of the potential  
with divisions working together**

**CACI**

*Central Alberta Collegiate  
Institute*

- We have continued working collaboratively for many years to develop scalable dual credit, career pathways programs.
- Work for the benefit of all students.





# Origins - SACI

- The six divisions had worked closely in the past on pathways such as HCA
- There was already lots of resource sharing going on; SACI crystalized those processes
- Scalable to accommodate more students and designed for large geographical reach



EXPLORE

ENGAGE

EXPERIENCE

## Outcomes from Programs Focused on Student Career Pathway Success

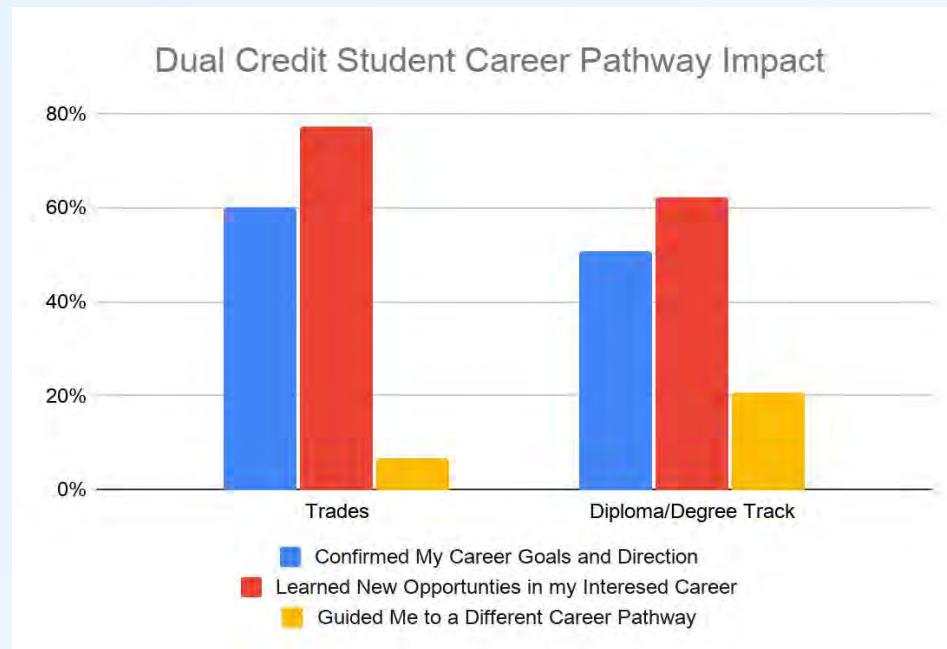
**Academic  
Empowerment**

**Mental Health**

**Post-Secondary  
Transition Success**

**Graduation Rates**

# Alberta Dual Credit Student Transition to Learning After High School



**98%**

of students believe that their dual credit program has prepared them to successfully transition from high school

2020 Fall Student exit data

# High School Completion Data

CBE, Chinook's Edge, Palliser,  
Red Deer Catholic, Wolf Creek

## Graduation Rates

- ★ Measured three graduating classes 2019-2021
- ★ Graduation rates for students who participated in at least one single dual credit course in their high school journey
- ★ Average graduation rate of a dual credit student for all 4 school authorities = 100%



This program has really helped me understand what I wanna do with my future.

| Assurance Domain               | Measure                                       | Current Result | Prev Year Result | Prev 3 Year Average | Current Result | Prev Year Result | Prev 3 Year Average | Achievement | Improvement | Overall   |
|--------------------------------|---|----------------|------------------|---------------------|----------------|------------------|---------------------|-------------|-------------|-----------|
| Student Growth and Achievement | <a href="#">Student Learning Engagement</a>   | 87.8           | 88.2             | 88.2                | 84.4           | 85.1             | 85.1                | n/a         | Maintained  | n/a       |
|                                | <a href="#">Citizenship</a>                   | 85.5           | 85.6             | 86.3                | 80.3           | 81.4             | 82.3                | Very High   | Maintained  | Excellent |
|                                | <a href="#">3-year High School Completion</a> | 90.3           | 88.5             | 88.3                | 80.7           | 83.2             | 82.3                | Very High   | Maintained  | Excellent |
|                                | <a href="#">5-year High School Completion</a> | 92.7           | 92.1             | 92.7                | 88.6           | 87.1             | 86.2                | Very High   | Maintained  | Excellent |
|                                | <a href="#">PAT: Acceptable</a>               | n/a            | n/a              | n/a                 | 63.3           | 64.3             | n/a                 | n/a         | n/a         | n/a       |

Post-Secondary Transition Success



# Alberta Dual Credit Student Transition to Learning After High School

## Dual Credit Enrollment

The students who entered grade 10 in 2017-2018 were tracked by the Dual Enrollment Flag and CTS and then cross referenced with their transition to learning at postsecondary after high school.

### Transition to Post-Secondary Certificate Learning:

Not Enrolled in Dual Credit

Enrolled in Dual Credit

2%  
Transition Rate

20%  
Transition Rate

### Transition to Post-Secondary Degree Learning:

Not Enrolled in Dual Credit

Enrolled in Dual Credit

16%  
Transition Rate

28%  
Transition Rate

### Transition to Post-Secondary Diploma Learning:

Not Enrolled in Dual Credit

Enrolled in Dual Credit

4%  
Transition Rate

8%  
Transition Rate

### Transition to Post-Secondary Non-Credential

Not Enrolled in Dual Credit

Enrolled in Dual Credit

6%  
Transition Rate

71%  
Transition Rate

<https://acat.alberta.ca/media/2643/march-3-2022-dcac-meeting-post-secondary-transitions-among-students-in-dual-enrollment-courses-final-v3.pdf>

## School Jurisdiction Supports for Dual Credit Students

- Career Education Exposure - experiential and/or hands-on learning in an area of interest
- High School Teacher Supervisor - support in navigating requirements of post-secondary learning, accessing services, supplying course materials and PPE, communicating with instructors
- Financial Supports - remove barriers and improve equity of access by covering some or all costs associated with programming
- Career and Post-Secondary Transitions - supporting next steps via employer sessions, industry safety credentialing, and connections to community partners



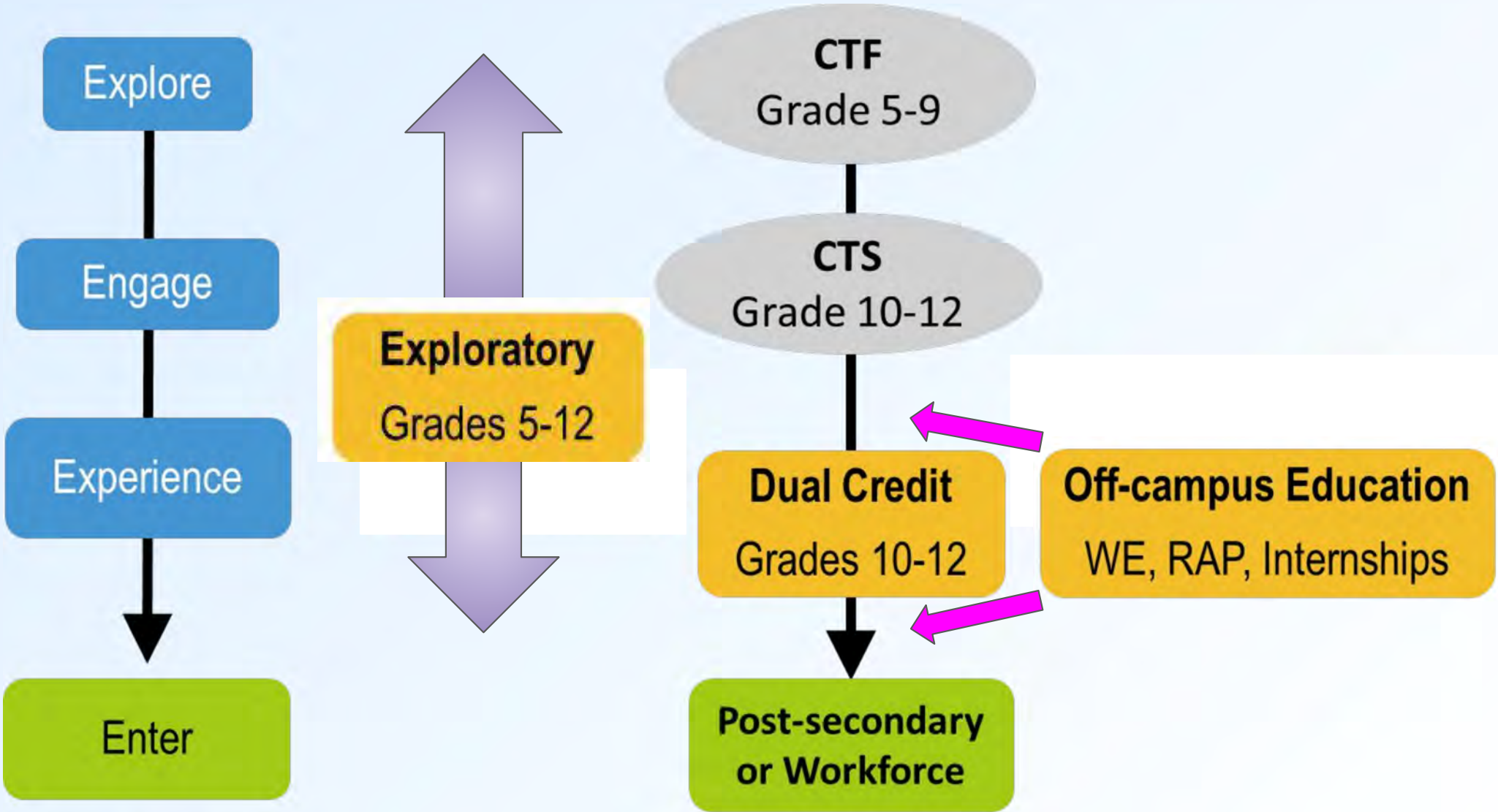
# Mindset Shift, Partnerships & Structure

- Divisional Mindset shift at divisional and school based levels. *This includes central leadership structures.*
- Partnerships with each other - also with business, industry, Careers, etc. (PPSA for Southern Alberta)
- Harnessing the expertise of our people.
- Move from only single enrolled dual credit to career pathways.
- Creating hybrid or blended structures for courses and pathways.
- Emphasizing CTF and career education in schools, collaborate across region.



# What are your reasons?





Explore

Engage

Experience

Enter

**Exploratory**  
Grades 5-12

**CTF**  
Grade 5-9

**CTS**  
Grade 10-12

**Dual Credit**  
Grades 10-12

**Post-secondary  
or Workforce**

**Off-campus Education**  
WE, RAP, Internships



Academic and Career Coaching

## Exploratory Stage

“Interest Driven & Broad”

CTF, Camps, Volunteer, Events & Experiences

## Engage Stage

“Targeted Experience and Learning Opportunities”

CTS, Single Dual Credit Course

## Experience Stage

CAREER Internships,  
Pre-Employment  
Training, Dual Credit  
Certificate Programing,  
RAP, SKILLS Alberta  
Competitions

***These stages are not grade specific and can be enter at any point***

## AGRICULTURE

## HEALTHCARE

## ENVIRONMENTAL SCIENCE

## SKILLED TRADES

## TECHNOLOGY

**Exploratory  
Learning Days**

**Exploratory  
Learning Days**

**Exploratory  
Learning Days**

**STEM Project  
Classroom  
Activity**

**Classroom  
Robotics and  
STEAM Activities**

**Green Certificate**

**Foundations in  
Emergency Care**

**Exploratory  
Industry Programming  
and Credentials**

**Tech Talks and  
Industry Nights**

**Introductory  
Agriculture  
Course**

**Healthcare Dual  
Credit Courses/  
Programs**

**Environmental  
Science Dual  
Credit Courses**

**Skills Canada  
Competition**

**Exploratory  
Programming**

**Agriculture Dual  
Credit Courses**

Ag Business,  
Agronomy and  
Animal Science  
Diploma; Bachelor of  
Ag Science,  
Ag Tech and Design  
Thinking in Ag

Anatomy &  
Physiology; Medical  
Terminology;  
Healthcare Aid  
(3 clinical  
placements);  
Healthcare Career  
Essentials;  
Medical Office  
Assistant

Botany; Ecology;  
Geology; Spatial  
Information;  
Innovation &  
Disruption in Water  
Systems; Data  
Collection and  
Technology, Zoology

**Skilled Trades  
Dual Credit  
Courses/  
Programs**

Intro to Trades;  
Pre-Employment  
Autobody, Auto  
Service Tech,  
Carpentry, Pipe  
Trades, RV Tech,  
Welding

**Technology  
Dual Credit  
Courses/  
Programs**

Software  
Development, Web  
Design, Intro to  
Hardware, Intro to  
Networks, UX/UI

Off-campus Education (Work Experience, RAP, Internships)

# Specific Scope and Sequence design

## EXPLORE - ENGAGE - EXPERIENCE

- What is within our K-12 Curriculum system control - Our CTS/CTF programming
- Purposeful design with the ***Engage Stage***
- Key questions:
  - *“How do we provide a targeted experience that supports our students with purposeful Career exposure with a focus on experience and skill development using CTF, CTS, Dual Credit, WIL?”* (Which leads to our students being successful in their transition to post secondary career training?)

# ROBOTICS PROGRAMMING & 3D PRINTING CREDITS

## INTRO



Optional  
Additional  
Credits



## INTERMEDIATE



### COURSE SUMMARIES

This comprehensive beginner-level course is designed to provide students with a solid foundation in programming, Arduino board assembly, and 3D modeling techniques. This course aims to equip students with the skills and knowledge necessary to pursue various projects that integrate these technologies.

In this Intermediate course students will develop their skills in modular coding and data synthesis in C++, Arduino programming, and utilizing 3D printing technology for creating robot parts. This course focuses on combining these skills to enable students to build and program sophisticated robotic systems.

## DUAL CREDIT COURSES

**ATG 1007**  
**Electronics & Control Systems**

Students will investigate foundations of control systems, electronics and practical applications in precision farming.

**ATG 1008**  
**Solving Technology Problems**

This course focuses on equipping students with the necessary skills to solve technical agricultural issues using data-driven problem-solving techniques.

**COMING SOON!**  
**Robotics Coding and 3D Printing**

Students will design, create, and program functional robotic systems using 3D printed components.

Upon completion of the Intro and Intermediate courses students are eligible to enroll in any of the dual credit courses offered through Olds College. Students will earn 5 credits at the 30 level as well as post secondary credits.

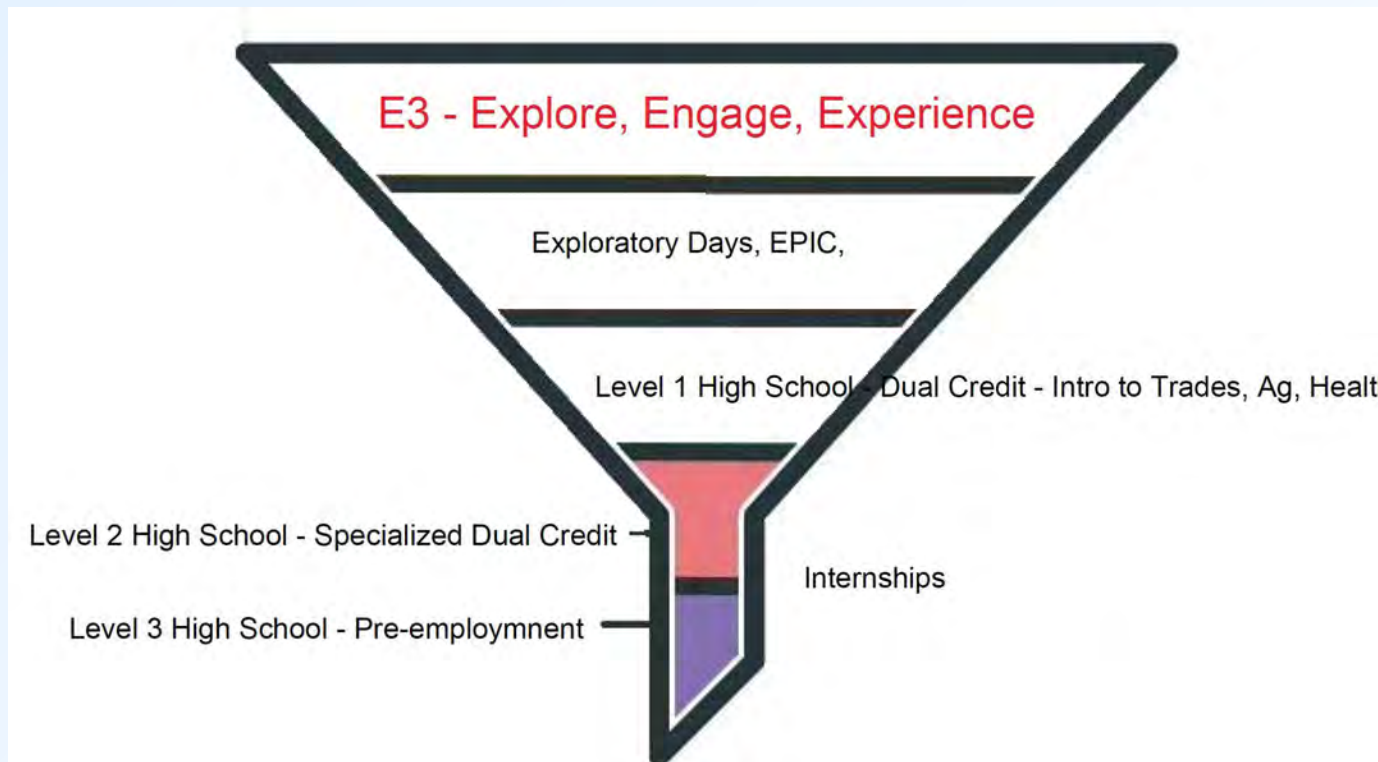
## ADVANCED



In the Advanced Robotics and Coding course students will have more freedom to develop skills in their area of interest. There are opportunities to learn new programming languages, learn how to build video game graphics, design and compete with autonomous robots and partner with local businesses to earn credits while working.

# Why E3?

Career pathways are formed from flexible, student-centered learning opportunities that start broadly and narrow as students learning about their own interests and aptitudes.





- **What do you envision your pathways could look like?  
How does this align with your context and local needs?**

# Benefits

- Sustainability - Financial - Opportunities - Human Resource support

*You no longer need to be the expert provider of all - leveraging our knowledge*

- Flexibility & Consistency - With types of Offerings, Modality, Financially

*Ability to create offering that help to keep students in our communities through the opportunities that we can collaboratively create.*

- Scalable models - Ability to add new Pathways - Share constructed Pathways
- Assist in making meaningful connections to the labour market



# Challenges

- Geography
- Transportation
- Financial / seats commitment
- Multi party agreements
- Areas of focus
- Structure and staffing
- Divisional buy-in / understanding







**What are the challenges and barriers in your region for creating multi-divisional partnerships? How do you plan to address your challenges?**

# Inter Zone Celebrations - Building a Provincial Landscape

## *Collaboratively where are we going?*

- ACAT
- TAVE
- Scope and sequence for career education
- Career Pathway development - sharing of resources and expertise
- Collaborative Advocacy
- Curriculum Support
- Data Sharing





**As a division where do you want to go?**

# TAVE Resources

## **Supporting Student Choice:**

<https://cass.ab.ca/wp-content/uploads/2021/06/Supporting-Student-Choice-Report.pdf>

## **E Learning Guides, Explore, Engage, Experience:**

<https://cass.ab.ca/wp-content/uploads/2023/05/Learning-Guide-TAVE-Explore-Feb-28-2023.pdf>

<https://cass.ab.ca/wp-content/uploads/2023/05/Learning-Guide-TAVE-Engage-Mar-7-2023.pdf>

<https://cass.ab.ca/wp-content/uploads/2023/05/Learning-Guide-TAVE-Experience-Mar-14-2023.pdf>

## Questions?

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