



MONTANA
UNIVERSITY SYSTEM

Dual Enrollment and Career & Technical Education

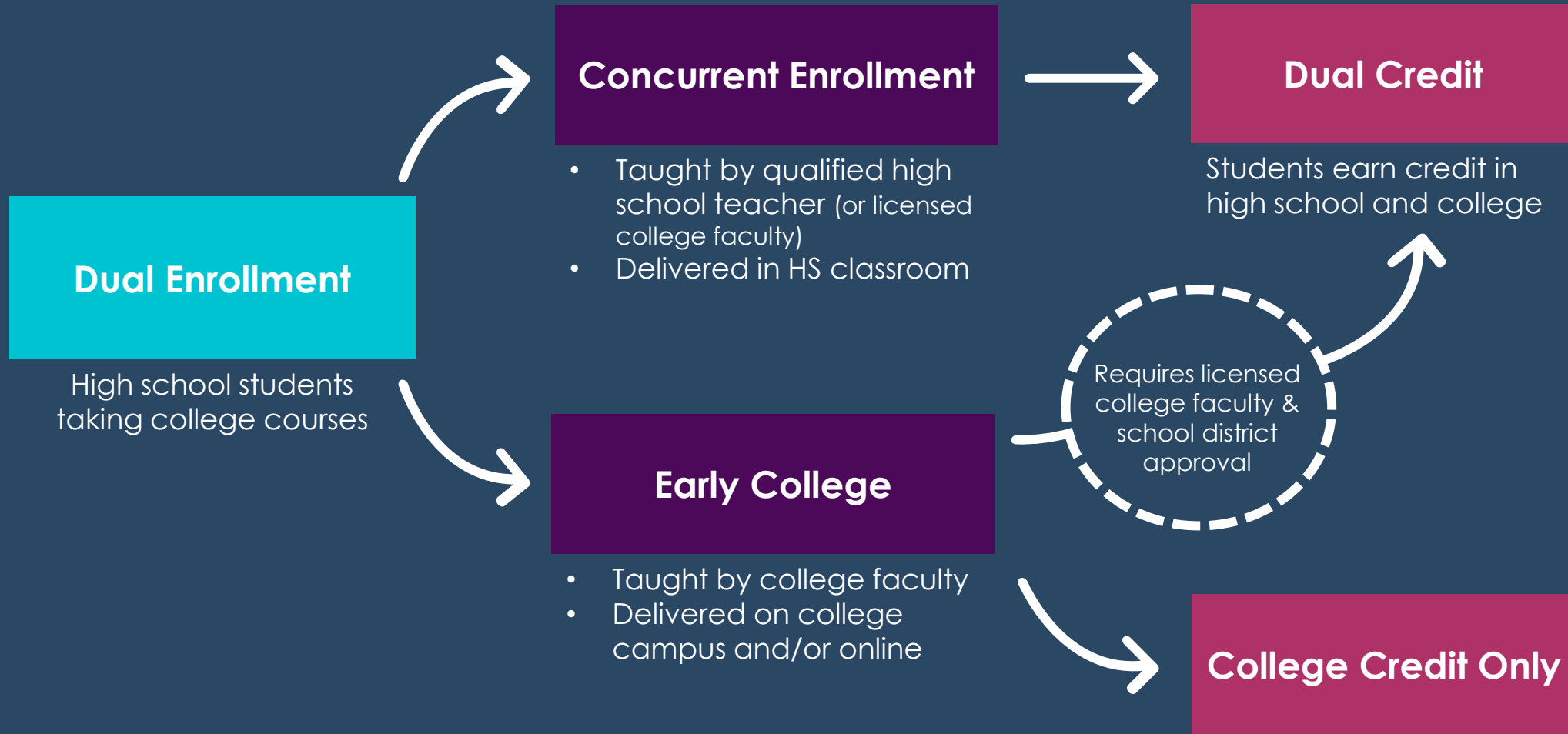
Dan Karalus

Dual Enrollment Program Manager



OCHE – Academic, Research, and Student Affairs

What is Dual Enrollment?



Behind the Data

Career & Technical Education

Courses and programs that focus on the skills and knowledge required for specific jobs or fields of work

- National Center for Education Statistics (NCES)

CIP Codes

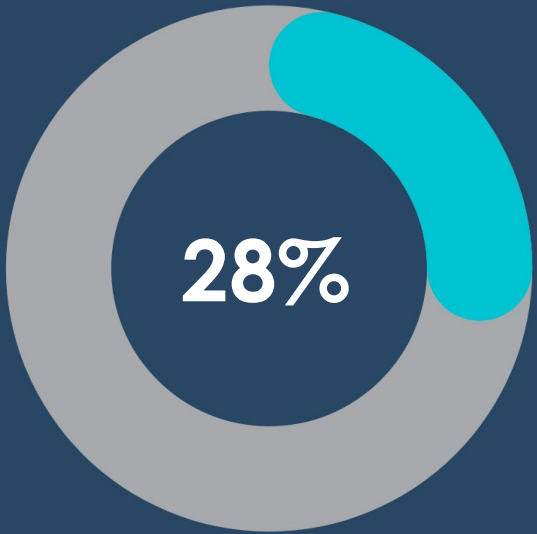
Classification of Instructional Programs

Scheme for tracking programs & fields of study

*Data in the presentation spans the past three academic years, 2018-19 to 2020-21, unless noted.



How Much Dual Enrollment is CTE?



of Dual Enrollment was **CTE** over the past three years (2018-19 to 2020-21)

	2016-17	2017-18	2018-19	2019-20	2020-21
CTE %	25%	26%	27%	29%	28%
CTE Credits	6,005	7,042	9,199	10,680	9,937

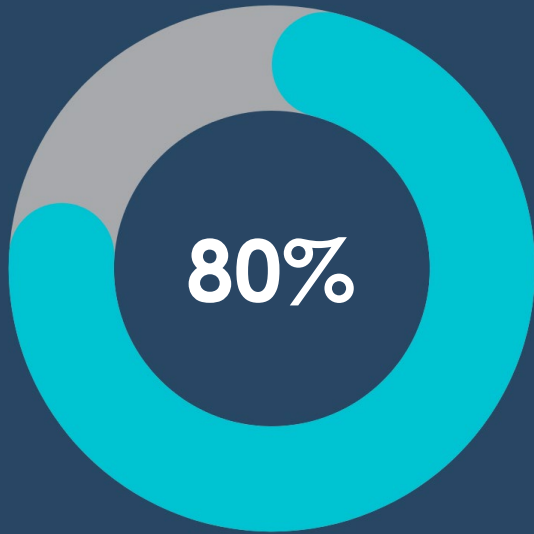
ONE TWO FREE. ONE TWO FREE. ONE TWO FREE.

+31%
increase in DE CTE credits (2017-18 to 2018-19)



Top Subjects & Courses*

*The past three academic years, 2018-19 to 2020-21



of CTE Dual Enrollment was from the **Top Ten** most popular subjects, by credits (2018-19 to 2020-21)

Subject	CTE Credits	% of CTE Credits	Course	CTE Credits	% of CTE Credits
WLDG	6,037	20%	COMX 111	3,084	10%
COMX	4,387	15%	WLDG 111	2,539	9%
CAPP	3,003	10%	AHMS 144	2,400	8%
AHMS	2,476	8%	BGEN 105	1,653	6%
CSCI	2,008	7%	CAPP 120	1,487	5%
BGEN	1,793	6%	WLDG 185	1,324	4%
ACTG	1,723	6%	ACTG 101	1,283	4%
DDSN	1,276	4%	COMX 115	783	3%
EDEC	710	2%	CAPP 156	720	2%
EDU	652	2%	CSCI 107	705	2%



Over $\frac{1}{2}$ of all CTE DE credits came from these ten courses



Course Frequency*

*The past three academic years,
2018-19 to 2020-21

Subject	Total CTE DE Sections	Concurrent	Early College
WLDG	331	227	104
COMX	237	45	192
CAPP	208	81	127
CSCI	179	73	106
AHMS	145	46	99
BGEN	114	23	91
ACTG	100	57	43
DDSN	72	57	15
EDU	69	34	35
BMGT	61	8	53



1 out of every 4

CTE Concurrent Enrollment sections taken by students in the past three years was a **welding** course



Over **40%** of Early College CTE DE Sections were **online courses**.



CTE DE by Career Cluster*

*The past three academic years, 2018-19 to 2020-21

Career Cluster	CTE Credits	% of CTE Credits
Manufacturing	7,629	26%
Arts, Audio/Video Technology & Communications	4,501	15%
Business Management & Administration	4,483	15%
Information Technology	4,287	14%
Health Science	3,118	10%
Education & Training	2,274	8%
Finance	1,631	5%
Law, Public Safety, Corrections & Security	437	1%
STEM	419	1%
Architecture & Construction	316	1%
Transportation, Distribution, & Logistics	278	1%
Agriculture, Food, & Natural Resources	265	1%
Human Services	94	<1%
Marketing	42	<1%
Hospitality & Tourism	32	<1%
Government	10	<1%



CTE DE Programs & Job Projections

Career Cluster	% of CTE DE*	Projected New Jobs**	Total Projected Job Openings**
Manufacturing	26%	162	2,968
Arts, Audio/Video Technology & Communications	15%	9	575
Business Management & Administration	15%	205	7,700
Information Technology	14%	116	697
Health Science	10%	731	4,555
Education & Training	8%	131	2,294
Finance	5%	38	544
Law, Public Safety, Corrections & Security	1%	93	1,273
STEM	1%	66	487
Architecture & Construction	1%	511	5,383
Transportation, Distribution, & Logistics	1%	263	4,838
Agriculture, Food, & Natural Resources	1%	0	2,430
Human Services	<1%	308	3,501
Marketing	<1%	135	6,847
Hospitality & Tourism	<1%	793	13,296
Government	<1%	2	15

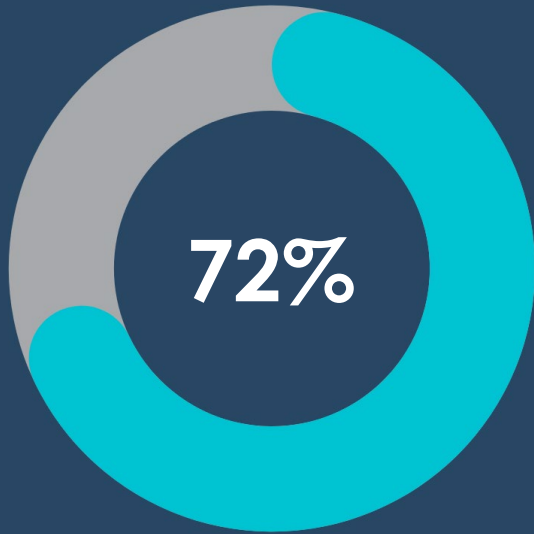
*The past three academic years, 2018-19 to 2020-21

**Montana Department of Labor & Industry, Montana Employment and Labor Force Projections: Job Growth from 2018 to 2028.



Class Size & Concurrent Enrollment*

*The past three academic years, 2018-19 to 2020-21



of CTE DE students take DE courses in their school

Class Size	CTE Credits	% of CTE Credits	% Concurrent	% of DE Credits that are CTE
AA	11,984	40%	83%	28%
A	6,520	22%	86%	31%
B	4,289	14%	79%	32%
C	1,943	7%	43%	23%
Other**	5,080	17%	32%	26%
Total	29,816	100%	72%	28%

**Other includes private, homeschool, unknown, etc.

80% of public school CTE DE students take DE courses in their school



Class Size & CTE Programs*

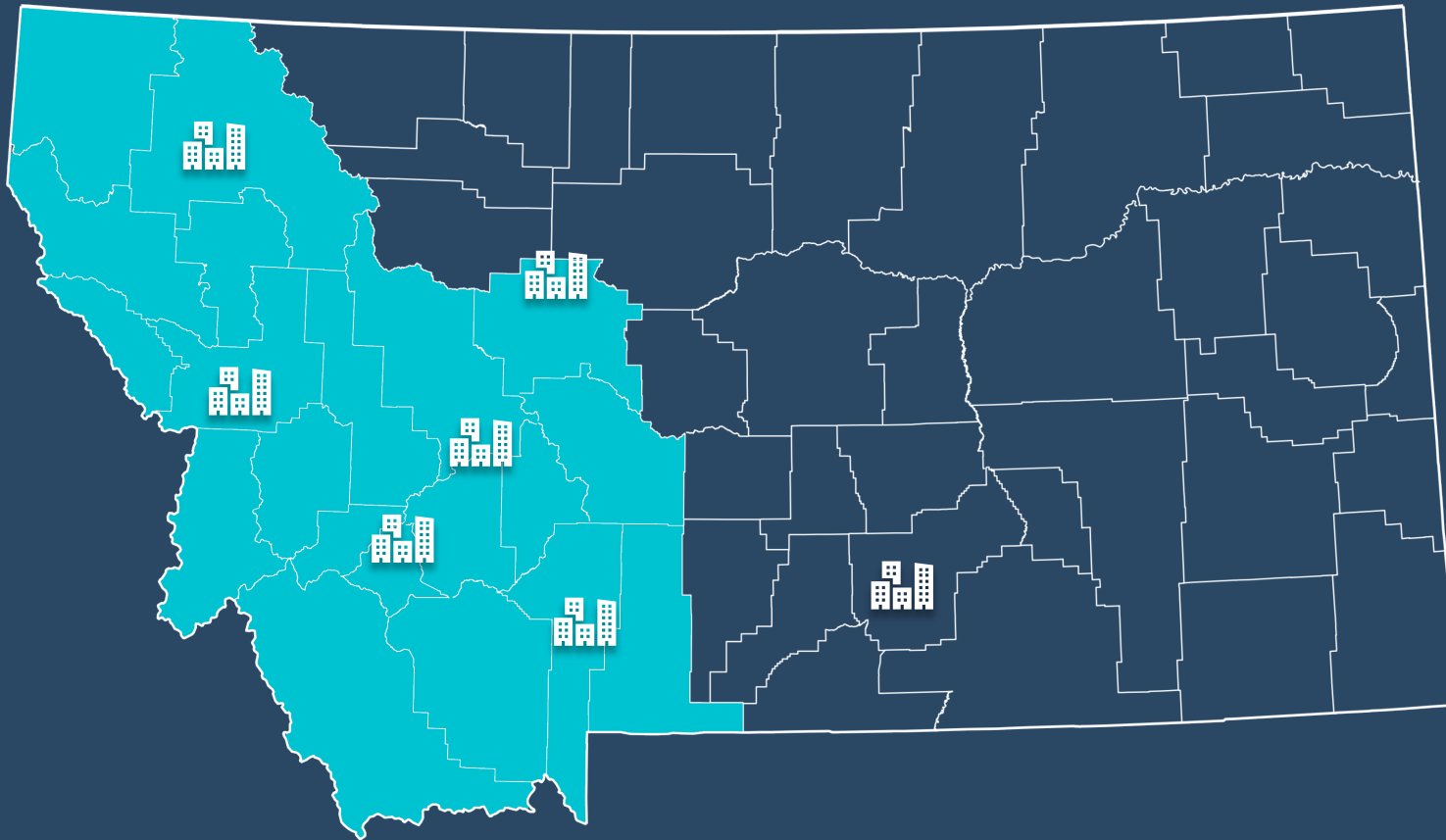
*The past three academic years, 2018-19 to 2020-21

Career Cluster	AA	A	B	C	Other**	All
Manufacturing	17%	48%	42%	37%	9%	26%
Arts, Audio/Video Technology & Communications	13%	16%	14%	13%	18%	15%
Business Management & Administration	21%	10%	8%	14%	13%	15%
Information Technology	16%	5%	15%	9%	22%	14%
Health Science	15%	5%	7%	14%	7%	10%
Education & Training	7%	3%	12%	4%	11%	8%
Finance	6%	5%	1%	2%	5%	5%
Other	5%	8%	1%	7%	15%	7%

**Other includes private, homeschool, unknown, etc.



Urban and Rural Regions

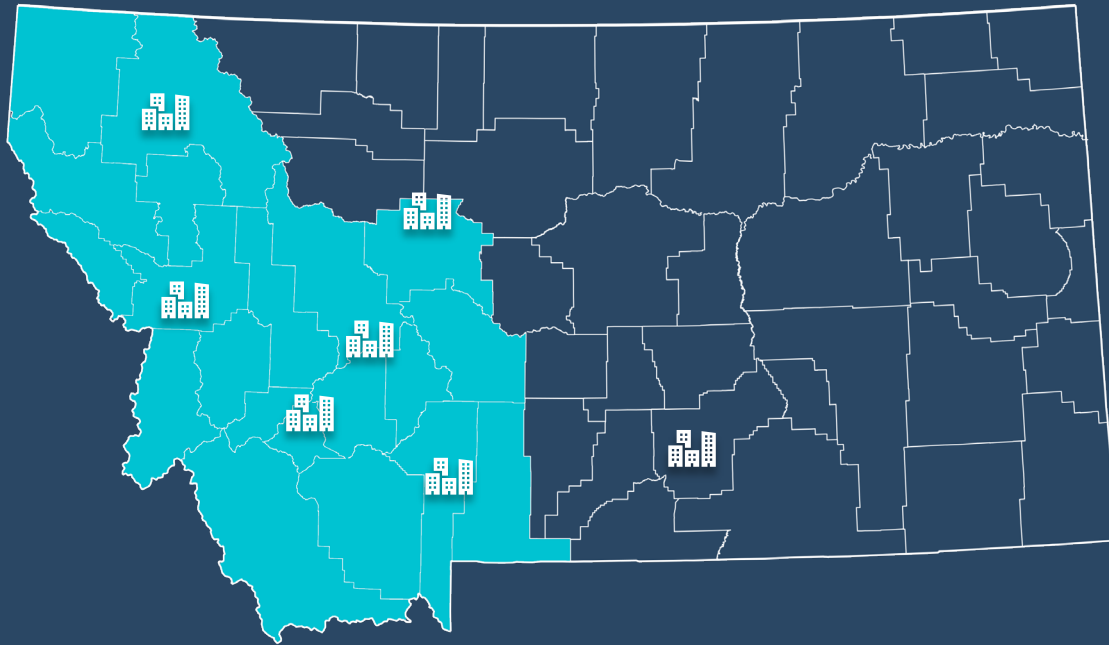


Region	% of All CTE DE Credits*	% of DE Credits that are CTE*
Urban	45%	28%
Mountains	35%	37%
Plains	20%	27%

*The past three academic years, 2018-19 to 2020-21



Urban and Rural Regions & CTE Programs*

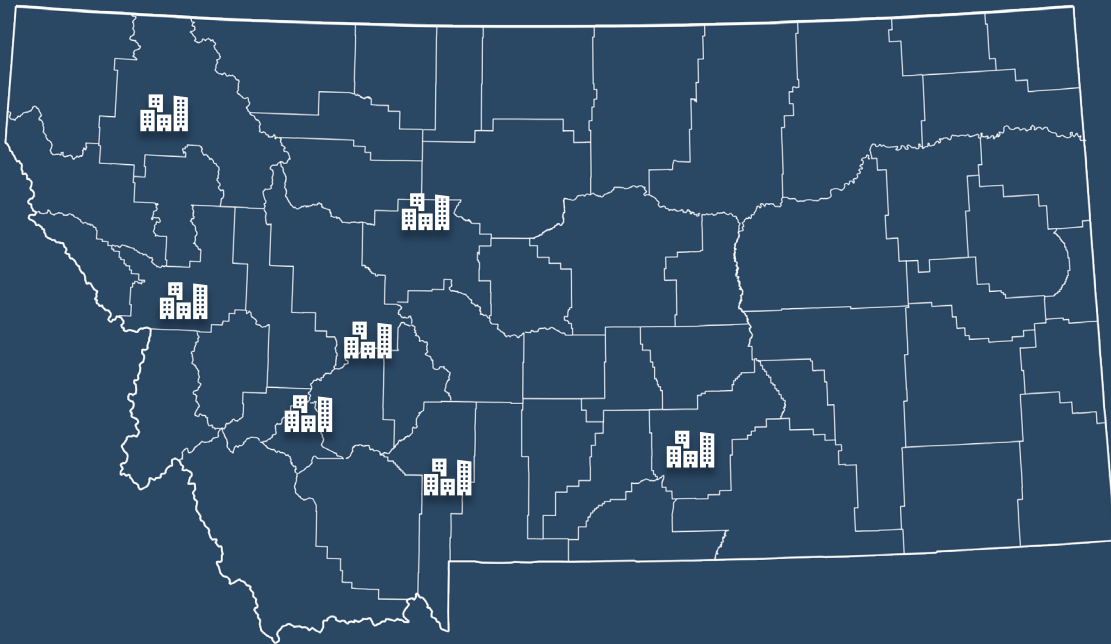


Career Cluster	Urban	Mountains	Plains	All
Manufacturing	15%	55%	27%	26%
Arts, Audio/Video Technology & Communications	13%	9%	24%	15%
Business Management & Administration	22%	8%	12%	15%
Information Technology	16%	4%	17%	14%
Health Science	15%	6%	8%	10%
Education & Training	8%	7%	4%	8%
Finance	6%	5%	1%	5%
Other	5%	6%	7%	7%

*The past three academic years, 2018-19 to 2020-21



Proximity to Urban Areas

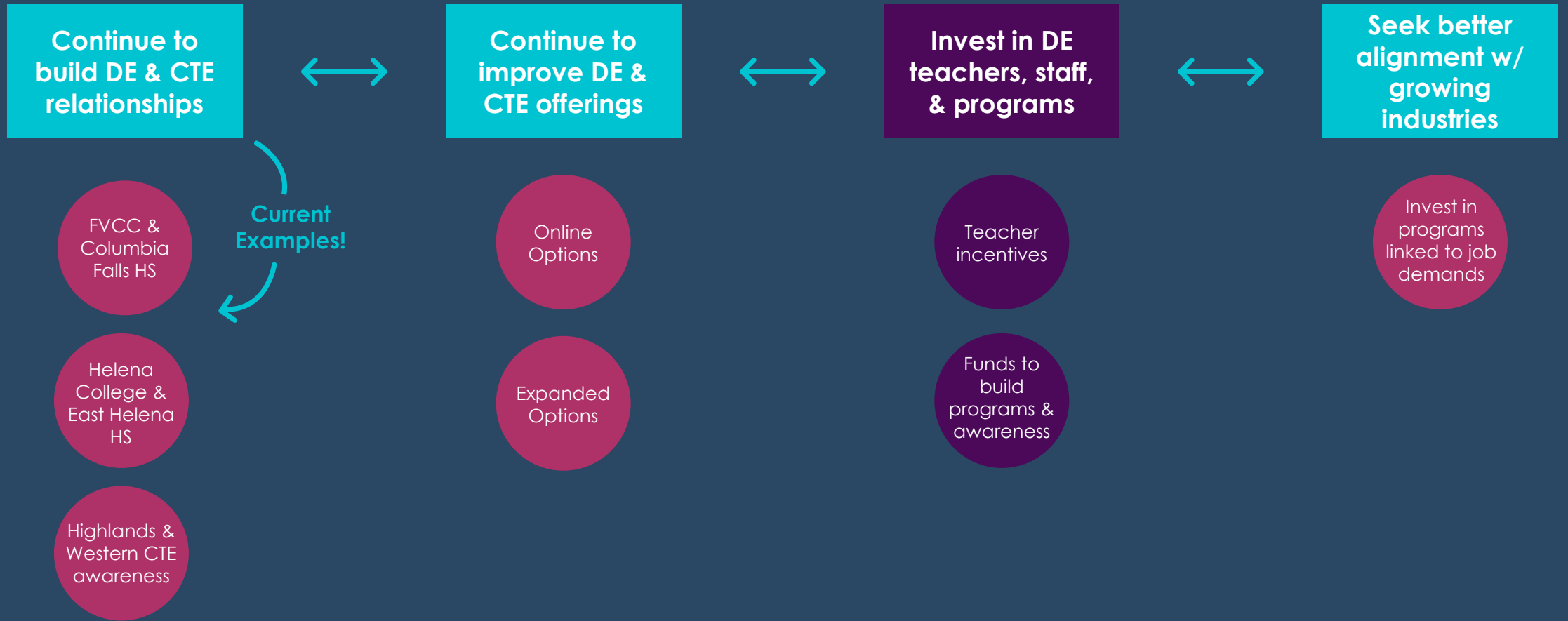


PROXIMITY	CLASS SIZE	CTE Enrollment*	% of DE Enrollment that is CTE
Within 30 miles of urban area	A	1,259	38%
	B	484	40%
	C	170	25%
TOTAL		1,913	37%
More than 30 miles from urban area	A	1,029	28%
	B	1,073	33%
	C	549	26%
TOTAL		2,651	29%

*The past three academic years, 2018-19 to 2020-21



Strategies



More Information

World Wide Web:

<https://mus.edu/dualenroll>

Montana University System:

Dan Karalus

dkaralus@montana.edu

(406) 449-9128

