
CAREER & TECHNICAL EDUCATION FOR EVERYONE

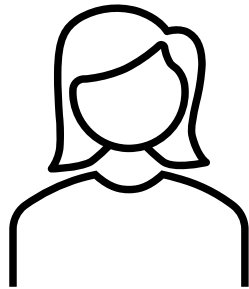
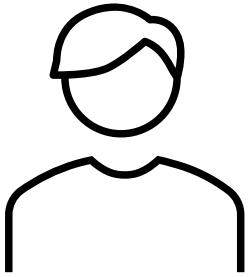
WHAT IS CTE AND HOW CAN YOUR STUDENTS ACCESS IT?



south dakota
DEPARTMENT OF EDUCATION

Learning. Leadership. Service.

CAREER & TECHNICAL EDUCATION



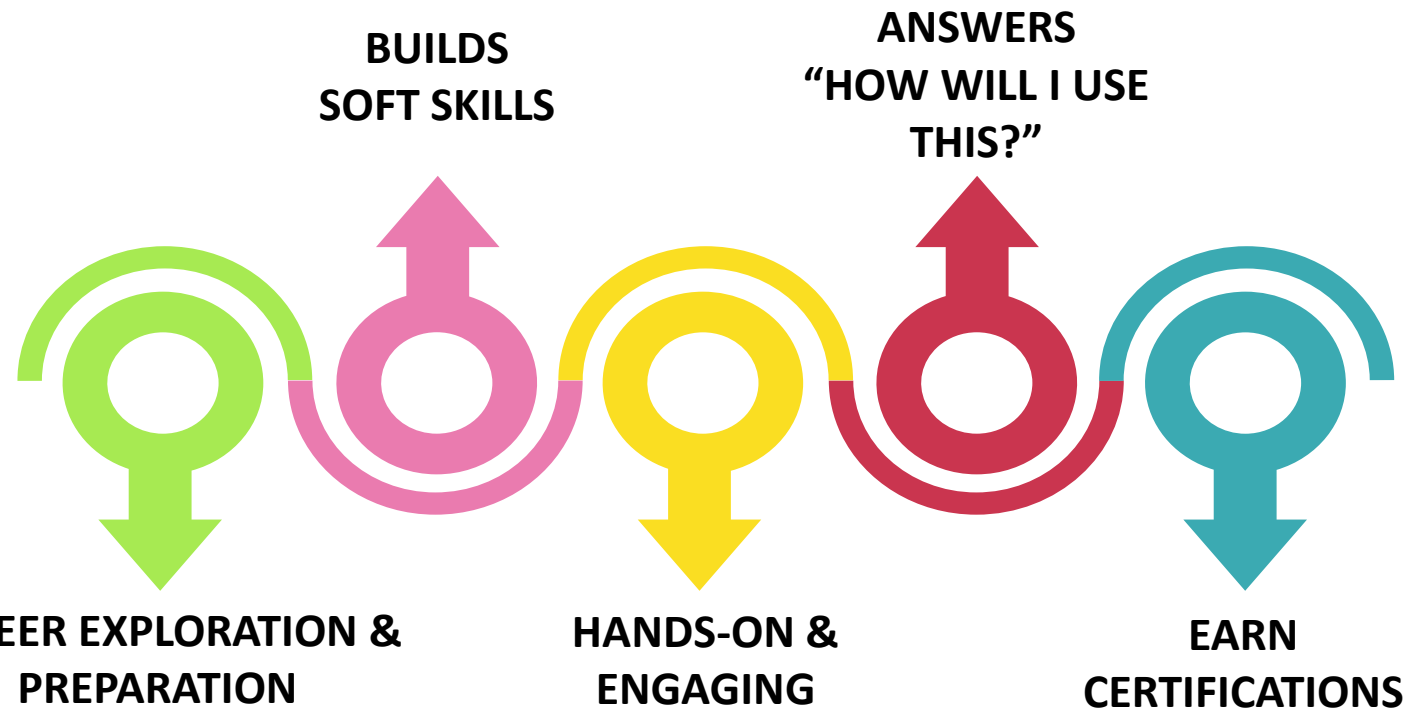
- Career and technical education (**CTE**) is the practice of teaching **skills-based** careers to students in middle school, high school, and beyond.
- CTE is for **ALL** students and provides **personalized** pathways to success based on each student's career interests and unique **learning needs**.



WHAT DOES CTE DO FOR STUDENTS?



REAL WORLD READINESS



CAREER CLUSTERS AND PATHWAYS

- South Dakota recognizes and supports **16 career clusters** and their respective **pathways**. Career clusters are designed to help students acquire the **knowledge** and **skills** they need to reach their postsecondary and/or career goals.
- All career clusters have **Foundational CTE Courses** in common. Foundational CTE courses aim to give students foundational knowledge and skills that apply to any career field they may explore or pursue in the future. In a scope and sequence of CTE courses, **Foundational CTE courses** are the first courses that then progress into career cluster or pathway-specific courses.



16 CAREER CLUSTERS

While there are thousands of occupations in our national workforce, the **National Career Clusters Framework** groups occupations into **sixteen different clusters** based on similarities in foundational knowledge and skills needed to achieve career success.



Agriculture, Food and
Natural Resources



Architecture and
Construction



Arts, Audio/Video
Technology and
Communications



Business, Management
and Administration



Education and Training



Finance



Government and Public
Administration



Health Science



Hospitality and Tourism



Human Services



Information Technology



Law, Public Safety,
Corrections and Security



Manufacturing



Marketing, Sales and
Service



Science Technology,
Engineering and
Mathematics




Transportation,
Distribution and Logistics

CAREER CLUSTER PATHWAYS

Foundational CTE courses apply across all 16 career clusters and aim to give students foundational knowledge and skills that apply to any career field they may explore or pursue in the future.

Cluster specific courses address the knowledge, skills and dispositions that are important to becoming career ready in any cluster.

Pathway courses are grouped together in related sequence so students can build on cluster specific skills they've already mastered.



CareerClusters™

PATHWAYS TO COLLEGE & CAREER READINESS

Manufacturing

State Approved Courses for Manufacturing Programs

Foundational CTE Courses

Career Exploration (22151^)

Employability (22152^)

Workplace Technology Skills (10004^)

Leadership & Service (22101^)

Cluster Courses

Introduction to Manufacturing (13001)

Introduction to Technical Education (21051)

Electronics (17106)

Drafting and Design I (21102)

Exploring STEM in CTE (21050)

MS Robotics (21049)

Pathway Courses

Welding Pathway	Precision Machining Pathway	Design & Engineering Pathway	Automation Pathway
<div>Welding Technology (13207)</div> <div>Advanced Welding Technology (13208)</div> <div>Ag Metal Fabrication (18404)</div> <div>Introduction to Manufacturing (13001)</div>	<div>Machine Tool Technology (13203)</div> <div>Advanced Machine Tool Technology (13204)</div> <div>Introduction to Manufacturing (13001)</div>	<div>Introduction to Engineering (21001)</div> <div>Engineering Design & Development (21007)</div> <div>Mechanical Drafting & Design (21106)</div>	<div>Robotics (21009)</div> <div>Welding Technology (13207)</div> <div>Advanced Welding Technology (13208)</div> <div>Machine Tool Technology (13203)</div> <div>Advanced Machine Tool Technology (13204)</div>

Dual Credit Courses

Visit <https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf> for a full list of dual credit courses in the Manufacturing Career Cluster.

Supporting Academic Courses

Geometry (02072^)

Pre-Calculus (02110^)

Physics (03151^)

Capstone CTE Courses

Entrepreneurship Experience (80026)

Senior Experience (80019^)


Youth Apprenticeship (80020)

Service Learning (22104)

Youth Internships (80018^)

^Denotes course is available on the SD Virtual School (<http://www.sdv.s.k12.sd.us/>)

CAREER CLUSTER PATHWAYS

 State Approved Courses for Business Management & Administration Programs				
Foundational CTE Courses				
Career Exploration (22151^), Employability (22152^), Workplace Technology Skills (10004^), Leadership & Service (22101^)				
Cluster Courses				
Introduction to Business (12051^), Personal Finance (19262^), Accounting I (12104^), Marketing Principles (12164), International Business & Marketing (12056^), Entrepreneurial Skills (12061), Advanced Accounting (12109), Business Economics (12105)				
Pathway Courses				
Human Resources Pathway	General Management Pathway	Operations Management Pathway	Business Information Management Pathway	Administrative Support Pathway
Business Law (12054^) Business Management (12052)	Business Law (12054^) Business Management (12052)	Business Law (12054^) Business Management (12052) Accounting II (12108^)	Business Computer Applications (10005^) Business Management (12052)	Business Computer Applications (10005^) Advanced Business Computer Applications (10049)
Dual Credit Courses				
Visit https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf for a full list of dual credit courses in the Business Management & Administration Career Cluster.				
Academic CTE Courses				
Algebra I (02052^), Probability & Statistics (02201^), Psychology (04254^), Sociology (04258^), Economics (04201^)				
Capstone CTE Courses				
Entrepreneurship Experience (80026), Senior Experience (80019^), Youth Apprenticeship (80020), Service Learning (22104), Youth Internships (80018^)				

Dual Credit courses allow students the opportunity to gain college credit along with their high school course credits, while in high school, and at a reduced rate.

Academic courses are traditional course options that enhance the programming and instruction students are learning about in their CTE specific courses.

Capstone experiences allow students the opportunity to apply the learning from their high school coursework into a meaningful and relevant career-related experience. This student-driven experience is based on the student's chosen career cluster or pathway and designed to help increase college or career readiness.

^Denotes course is available on the SD Virtual School (<http://www.sdv.s.k12.sd.us/>)

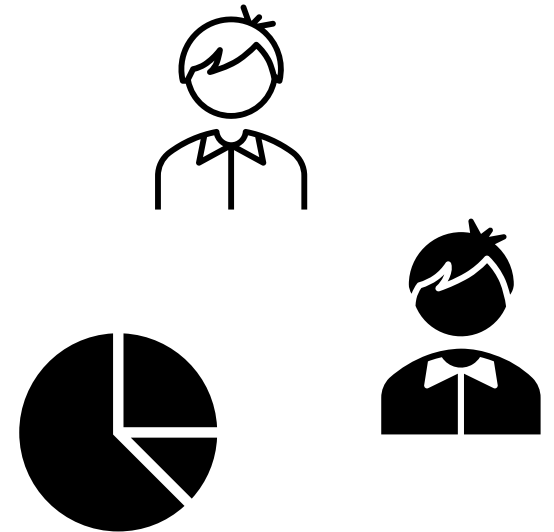
HOW IS CTE CURRENTLY IMPACTING YOUR STUDENTS?

Special Populations (on an IEP) involved in CTE in South Dakota

- Of CTE **participants** statewide about 11% were on an IEP.
- Of CTE **concentrators** statewide about 10% were on an IEP.

A **participant** is any student taking any one CTE course.

A **concentrator** is any student taking two or more CTE courses in any pathway.



HOW IS CTE CURRENTLY IMPACTING YOUR STUDENTS?



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District Report Card 2022-2023

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ARLINGTON

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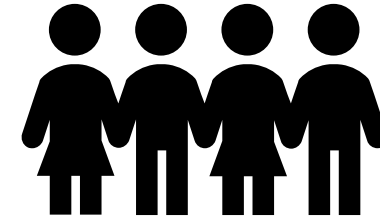
The district report card highlights key performance areas that are aligned to South Dakota's school accountability system along with our district's vision, mission, and goals set forth by the superintendent working with the Board of Education for ensuring that all students are "on-track" to graduate high school and are prepared to pursue their life goals, enrolling in college or achieving their career aspirations.

OVERALL SCORE	STUDENT PERFORMANCE	STUDENT PROGRESS	HIGH SCHOOL COMPLETION	COLLEGE AND CAREER READINESS	ENGLISH LEARNERS PROGRESS	EDUCATOR QUALIFICATIONS	SCHOOL ENVIRONMENT	SCHOOL SAFETY	CAREER TECH ED
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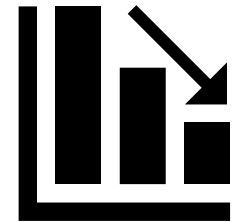


CTE IN SOUTH DAKOTA

The South Dakota economy is experiencing a skills gap...



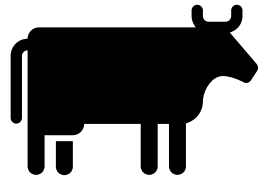
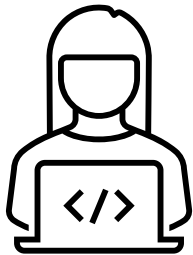
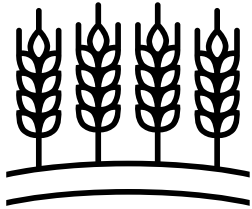
54% of jobs in South Dakota require skills training - more education than high school but less than a four-year degree.



47% of South Dakota workers are trained at this level.

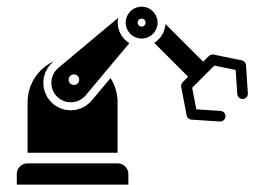


CTE IN SOUTH DAKOTA



Career and technical education (CTE) programs can fill these gaps, particularly in South Dakota's key industries, such as:

- manufacturing
- livestock development
- precision agriculture
- cybersecurity

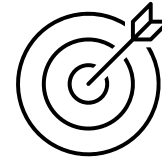


CTE IN SOUTH DAKOTA

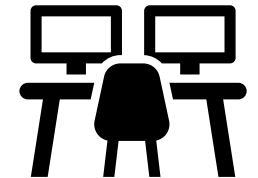
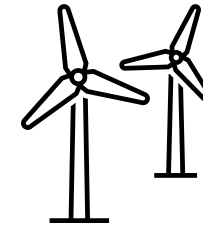
Many students are already enrolled in CTE in South Dakota, developing technical, academic and employability skills and engaging in work-based experiences with industry partners.

#

In **2022**, almost **2,100** South Dakota high school CTE concentrators graduated having participated in an internship, apprenticeship or other CTE Capstone experience.



During the **2021-22** school year, South Dakota had **25,282** secondary CTE participants.



CURRENT APPROVED PROGRAMS (23-24)

Agriculture, Food & Natural Resources - 111

Architecture & Construction - 67

Arts, Audiovisual Technology and Communications - 81

Business Management and Administration - 92

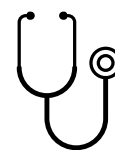
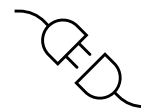
Education and Training - 53

Marketing - 7

Government - 27

Finance - 55

Health Science - 37



Hospitality and Tourism - 65

Human Services - 87

Information Technology - 50



Law and Public Safety - 3

Manufacturing - 58

Transportation, Distribution and Logistics - 25

STEM - 49

Current Approved Programs (867)

HOW CAN YOU GET YOUR STUDENTS INVOLVED IN CTE?

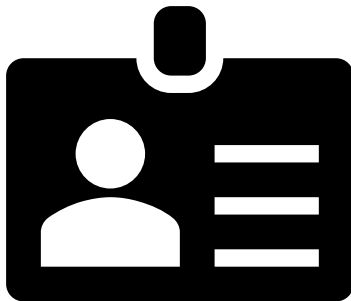


Connect with your student's counselors or CTE teachers.



Ask about specific CTE courses offered at your school and what collaboration is needed to make those courses accessible to your students.

CONTACT ME!



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