

Duluth Public Schools Career Technical Education Fact Sheet



Career Technical Education (CTE) State Overview

Business, Management & Administration | Agriculture, Food & Natural Resources | Arts, Communications & Information Systems
Engineering, Manufacturing & Technology | Health Science Technology | Human Services

At the secondary level, career technical education is delivered through a comprehensive high schools, cooperatives, and centers. Duluth offers students opportunities in all 6 State Career Pathways. This past year, ISD #709 offered 8 distinct career programs and 56 courses. At the postsecondary level, Minnesota uses technical and community colleges to deliver career technical education. ISD #709 offered 2 CITS programs; and articulated college credit in 90% of our programs.

Enrollment Data

2015-16 Academic Year:

- 767 students enrolled in CTE programs.
- 1102 total enrolled
- 172 Receiving Support Services
- 367 Special Populations
- 108 Protected Populations
- 42 Students received Industry Certifications

Secondary Student Performance

- 46.93% MCA Reading
- 32.97% MCA Math
- 89.29% Graduation
 - **District 77.45%
- 97.58% Completions
- 36% Nontraditional

Federal Perkins Funding

Used to update equipment in culinary program; FTE additional section of graphic arts; club support stipends and travel; MCIS; professional development; field trips and industry exposure

CTE Levy

Each year the district has the option of levying 35% total cost of salary, travel, supplies associated with CTE programs.

Snapshots of Career Technical Education



Aerospace physics

- 2 Full Sections
- Local and State Attention



Construction

- Working on LSC partnership
- Apprenticeship Hours



Engineering & Design

- New Design Center
- Formalized pathways
- Boost in enrollment
- Collaboration with Graphic Arts
- First Metals



Highlights

- Career centers
- Club success
- Demand is greater than we can currently provide
- Public awareness
- Representation on AMFA Board, Workforce Board, State CTE working groups
- Increased industry connections
- Gaining 6-12 Connections
- New staff
- Moving from projects to skills



For more information

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“GET students to work” is the motto of CTE. Our students GET:

- High paying jobs for the regional and global market
- Broad career skills transferable to any pathway.
- Taught by the most highly experienced staff in the region
- Connection to industry expectations
- Hands-on learning experiences

Duluth Public School offers the widest variety of programs of study in the region to let students explore their passions.



High School Programs of Study

Agriculture & Forestry: This program focuses on sustainable plant sciences, horticulture, and natural resource management

Automotive & Engines: This program focuses on the inner workings of automobiles. Students can earn NATEF and AYES certification

Aerospace Physics: Program meets state science requirements. Designed and tied into LSC's Aviation program, Duluth Aviation Institute, and local industry needs

Business, Marketing & Finance: Program focuses on leadership, accounting, entrepreneurship, and 21st century media and personal marketing

Construction Trades: Program focuses on skills in construction, electrical work, basic plumbing, and on-site building experience

Early Childhood: Program focuses infant and toddler care services

Engineering & Design: Based on MIT Fablab & Makerspace. Program focuses on computerized drafting, 3D prototyping, engineering: mechanical, architecture, industrial, manufacturing and innovation

Graphic Design & Digital Arts: Program focuses on computer designed: print, art, screen-printing, advertising, and digital communication

Health Occupations: Program focuses on health care services. Students earn First Aid/CPR certification and can also earn CNA license through completion of program and clinical experiences.

Hospitality & Tourism: Program focuses on culinary arts & restaurant services. Students can earn certifications in ServSafe, and NRAEF Prostart

Robotics: Program focuses on basic programming and construction of automation in a variety of settings.

**All Programs offer potential articulated college credit except for Robotics*

CTE Prepares Students to Fill Talent Shortages

There is much evidence that occupations and industry sectors experiencing talent shortages would benefit from an influx of students prepared by career and technical education to be college- and career-ready.

Job openings: Recent data from the Bureau of Labor Statistics' Job Openings and Labor Turnover Survey on job openings nationwide also feature the trades, health care and STEM fields, as well as business and hospitality.

- <https://www.acteonline.org>

Learn more about CTE at the district website:

<http://www.isd709.org/for-students>

Follow us on Twitter: @CTEduLuth

Instagram: Duluth_cte

Industry Sector	Job Openings Nationwide (September 2015)
Trade, transportation and utilities	1,019,000
Professional and business services (includes engineering and IT)	1,204,000
Health care and social assistance	988,000
Leisure and hospitality	696,000
Manufacturing	315,000

Top 10 job shortages: According to the 2015 Manpower Talent Shortage Survey, 32 percent of employers surveyed in the U.S. are having difficulty filling positions. The following are the top 10 positions experiencing a talent shortage in the United States:

1. Skilled Trades Workers
2. Drivers
3. Teachers
4. Sales Representatives
5. Administrative and Office Support Staff
6. Management and Executive Staff
7. Nurses
8. Technicians
9. Accounting and Finance Staff
10. Engineers

Questions or Comments:

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Secondary

92% 4-year graduation rate for all CTE concentrators (Students who complete 240 CTE course hours within one career field).

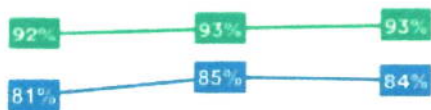
67% CTE concentrators who graduate and go on to enroll in college.

Postsecondary

80% College student CTE concentrators who graduated or continued their education.

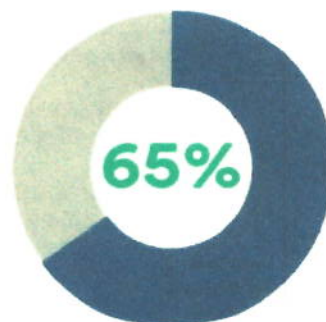
85% College students placed or retained in employment by the end of the 2nd quarter following the year they completed a CTE program.

HIGH SCHOOL CTE STUDENTS 4-YEAR GRADUATION RATES



2014 2015 2016
 ■ CTE Students of Color ■ CTE White Students

MEETING WORKFORCE NEEDS IN 2020



Jobs that will require postsecondary education and training beyond high school.

Carl Perkins Submission Status Report

Please wait a minimum of 10 minutes, or longer for larger files, for the data to load from the Carl Perkins submission site to the Secured Reports site. Once the data have transferred over, the Submission Table report provides summary information for the P-file data submitted to MDE. Districts are able to access their own districts report, consortium leaders are able to access a Submission Table report for each of the districts within their consortium. Depending on your web browser, the hover over text displaying the definitions for each term may or may not be available. Not all web browsers support this technology, therefore, please be sure to view the definitions of the terms, additional helpful tips, and a checklist which are included in the [Help Document/P-File Checklist](#).

School Year:
 District:

Carl Perkins Submission Status Report

Fiscal Year 2016

District: 0709 - 01 DULUTH PUBLIC SCHOOL DISTRICT

File Submission Date: 2016/09/06

	2015	2016
Number of records	1045	1102
Number of unique students	612	656
Number of unique programs	10	12
Number of unique courses	27	31
Count Proficient	952	983
Number of non-trad courses	14	17
Number of female non-trad enrollees	15	58
Number of male non-trad enrollees	263	245
Total non-trad enrollees	278	303

Technical Skills Assessment

	# TSA Given		# TSA Proficiency	
	2015	2016	2015	2016
070300 Health Sciences & Technology Education				
Allied Health Occupations	23	.	20	.
Nursing Assistant/Home Health Aid	.	38	.	36
090301 SO Hospitality-Food Preparation/Production & Service				
Chef's Training	2	2	2	2
Culinary Food Service Introduction	2	.	2	.
170302 Auto Mechanics				
Auto Tech IV NATEF & ASE Certification	2	15	2	5
Auto Tech II NATEF & ASE Certification	5	7	4	1
TOTAL	34	62	30	43

Carl Perkins Performance Indicator Reports

The Carl Perkins Performance Indicator Reports provide districts with student counts for Numerator and Denominator as well as the final outcome percent according to the federally agreed upon definition for each Performance Indicator (1S1, 1S2, 3S1, 4S1, 5S1, 6S1, & 6S2). These data are made available for the purpose of program improvement and local decision making. For further details, please see the [Carl Perkins Performance Indicator and Summary Report](#) document.

School Year: 2016
 Report Type: Basic CTE Student Enrollment
 Report Level: School
 Entity: Duluth Public School District

Report Year: 2015-16

Carl Perkins Core Indicator

School: Basic CTE Student Enrollment
 District: Duluth Public School District 0709-01

Male Female Grand Total

School: Central Senior High 210

Secondary UNDUPLICATED	5	0	5
American Indian/Alaskan Native	2	0	2
Asian	0	0	0
Hispanic	0	0	0
Black, Non-Hispanic	0	0	0
White, Non-Hispanic	3	0	3
Hawaiian/Pacific Islander	0	0	0
Multi	0	0	0
Total Race/Ethnicity	5	0	5
Individuals with Disabilities	3	0	3
Economically Disadvantaged	0	0	0
Displaced Homemakers	5	0	5
Single Parents	0	0	0
Nontraditional Enrollees	0	0	0
Limited English Proficiency	0	0	0
Migrant	0	0	0

School: Denfeld High School 215

Secondary UNDUPLICATED	225	100	325
American Indian/Alaskan Native	15	7	22
Asian	7	1	8
Hispanic	5	5	10
Black, Non-Hispanic	24	13	37
White, Non-Hispanic	164	70	234
Hawaiian/Pacific Islander	0	0	0
Multi	10	4	14
Total Race/Ethnicity	225	100	325
Individuals with Disabilities	86	21	107
Economically Disadvantaged	0	0	0
Displaced Homemakers	164	67	231
Single Parents	0	0	0
Nontraditional Enrollees	3	0	3
Limited English Proficiency	0	0	0
Migrant	44	7	51

School: East High School 220

Secondary UNDUPLICATED	290	153	443
American Indian/Alaskan Native	7	0	7
Asian	3	2	5
Hispanic	6	1	7

Black, Non-Hispanic	8	5	13
White, Non-Hispanic	258	139	397
Hawaiian/Pacific Islander	0	0	0
Multi	8	6	14
Total Race/Ethnicity	290	153	443
Individuals with Disabilities	48	18	66
Economically Disadvantaged	0	0	0
Displaced Homemakers	84	55	139
Single Parents	0	0	0
Nontraditional Enrollees	0	0	0
Limited English Proficiency	0	0	0
Migrant	50	23	73

School: Duluth Area Learning Center 611

Secondary UNDUPLICATED	9	8	17
American Indian/Alaskan Native	0	0	0
Asian	0	0	0
Hispanic	0	0	0
Black, Non-Hispanic	2	0	2
White, Non-Hispanic	6	7	13
Hawaiian/Pacific Islander	0	0	0
Multi	1	1	2
Total Race/Ethnicity	9	8	17
Individuals with Disabilities	2	1	3
Economically Disadvantaged	0	0	0
Displaced Homemakers	5	7	12
Single Parents	0	0	0
Nontraditional Enrollees	0	0	0
Limited English Proficiency	0	0	0
Migrant	1	2	3