



DEVELOPMENTAL EDUCATION AND SUPPLEMENTAL ACADEMIC INSTRUCTION REPORT

ACADEMIC YEAR 2009 - 2010



2009-2010



COLORADO COMMUNITY
COLLEGE SYSTEM



Developmental education (DE) courses are courses that are designed to bring students who have been identified as having academic deficiencies in reading, writing, and math up to grade level to participate in college level courses. This report details the rates of enrollment and associated descriptive statistics for students enrolled in developmental education courses in the Colorado Community College System for the 2009-2010 academic year, which covers the Summer 2009, Fall 2009, and Spring 2010 terms.

Readers of this report may be familiar with annual reports on remedial education published by the Colorado Department of Higher Education and the Colorado Commission on Higher Education, which examine limited cohorts of remedial students, generally focusing on recent high-school graduates¹. This report has a broader scope, covering all students

enrolling in developmental education at CCCS during the 2009-2010 academic year. This difference in methodology will allow the present report to more fully describe the state of DE in the Colorado Community College System, but does mean that the information presented here cannot be directly compared to CDHE/CCHE remedial reports.

This report is divided into three sections. The first, *“Enrollment in DE,”* shows enrollment counts for Developmental Education courses separated by college. *“Students in DE”* examines the characteristics of students who enrolled in DE courses in the 2009-2010 academic year. The final section, *“Academic Outcomes for Students in DE,”* contains summary information about key outcome indicators for students enrolled in DE courses during the 2009-2010 academic year.



Enrollment in DE

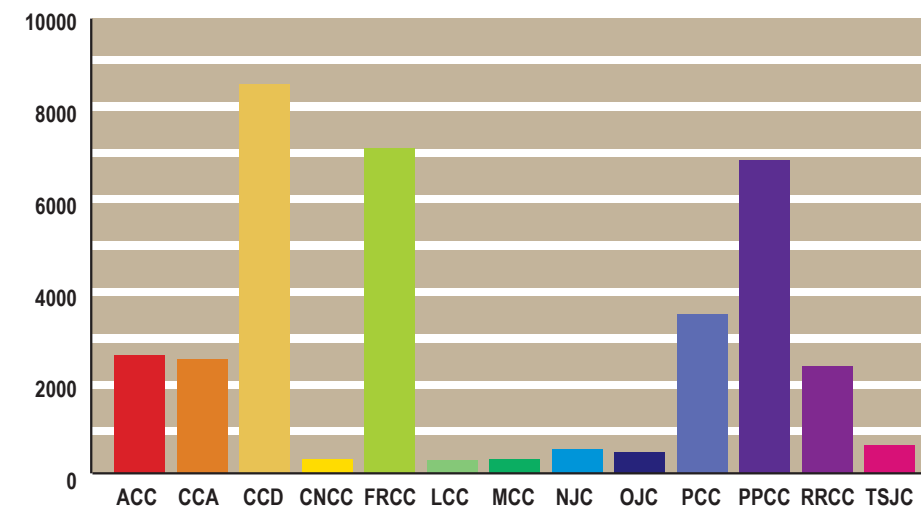
In the 2009-2010 academic year, 35,759 unique students were recorded as having enrolled in at least one DE course in the Student Unit Record Data System (SURDS). Records in the CCCS Operational Data Store (ODS), on the other hand, show 35,737 unique students as having been enrolled in at least one DE course during this period. While SURDS is considered the official record for many Colorado education statistics, the figures in this report use the numbers obtained from the ODS to facilitate analyses that make use of variables present in the ODS but not in SURDS.

A complete list of data sources can be found at the end of this report. The following tables describe enrollment counts for DE courses by term, institution, and course.

TABLE 1
Unique initial enrollment in DE courses by term

SUMMER 2009	FALL 2009	SPRING 2010	TOTAL UNIQUE ENROLLMENT ACROSS ALL TERMS
5,743	21,225	20,809	35,737

TABLE 2
Unique initial enrollment in DE courses by institution²



INSTITUTION	UNIQUE DE STUDENTS INITIALLY ENROLLED	...AS A PERCENTAGE OF INSTITUTION HEADCOUNT
ACC	2,562	12.82%
CCA	2,491	19.76%
CCD	8,482	40.07%
CNCC	311	12.42%
FRCC	7,083	20.01%
LCC	278	16.88%
MCC	316	9.31%
NJC	527	11.88%
OJC	451	18.45%
PCC	3,456	27.47%
PPCC	6,812	26.76%
RRCC	2,337	13.42%
TSJC	615	18.37%
CCCS	35,737	22.78%

¹ Colorado Department of Higher Education's reports and publications

² Unique students were identified at the institution level in all cases save the total unique headcount. The CCCS count is not a sum total, but instead a count of unique students system-wide.



Students in DE

The following tables summarize characteristics of the 2009-2010 DE student population.

FIGURE 3
Student age ranges

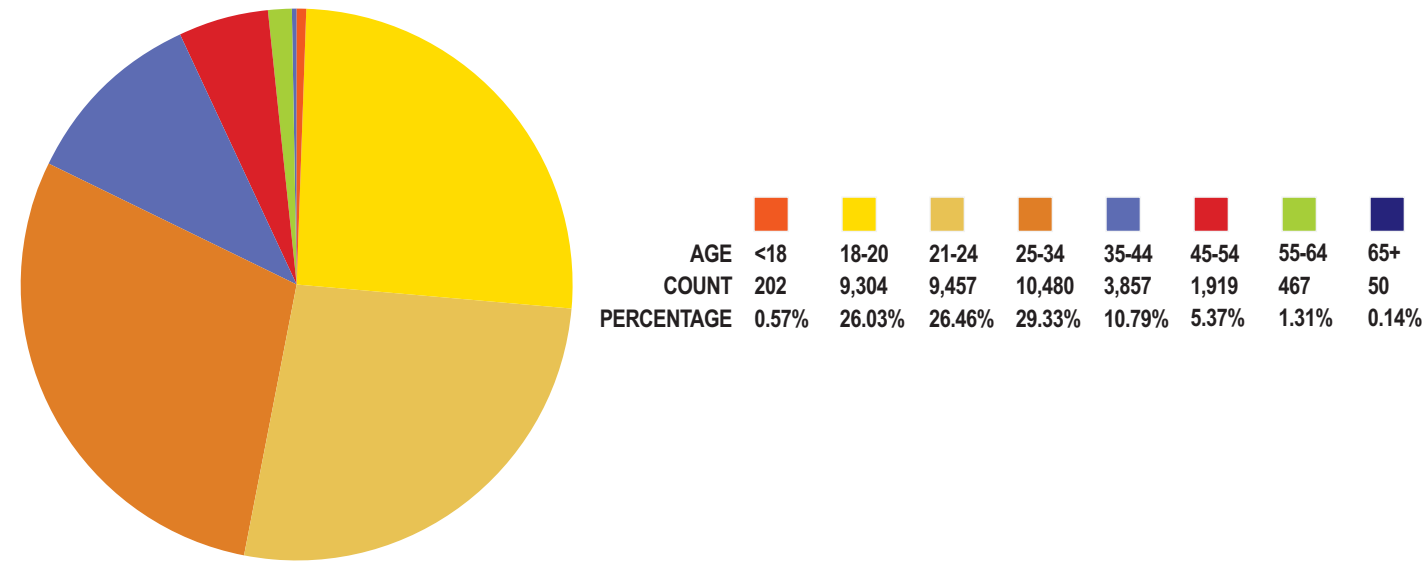


FIGURE 4
Student gender

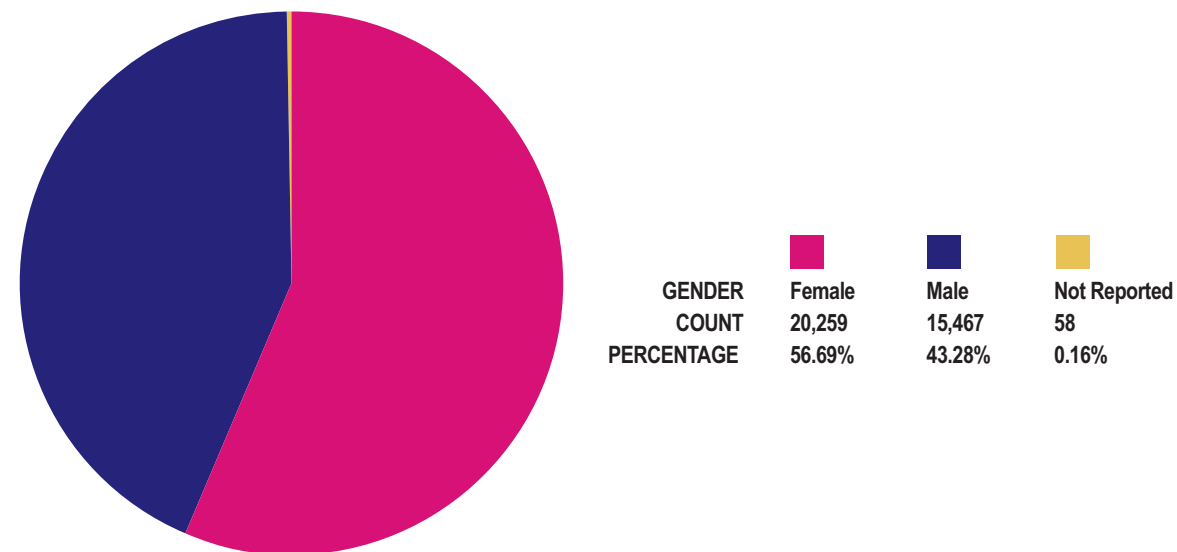


FIGURE 5
Student ethnicity

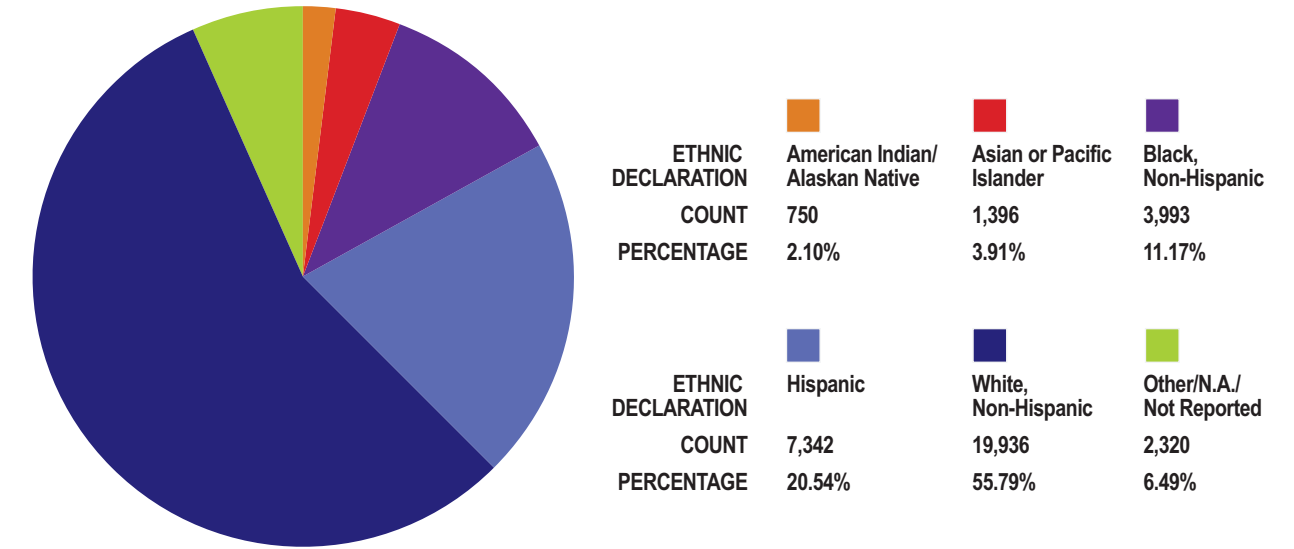
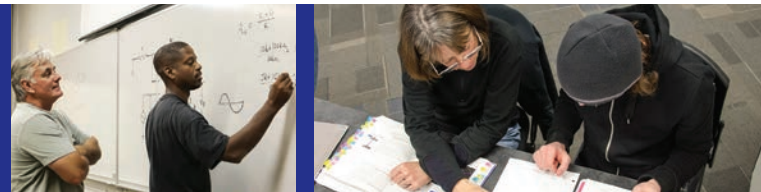


TABLE 6
Student population descriptions

	SUMMER 2009	FALL 2009	SPRING 2010
New Student	1,472	8,650	5,756
Transfer	357	2,154	1,339
Continuing Student	3,214	9,141	11,117
Re-Admit	354	1,220	1,298
Consortium Student (CCD Only) [†]	438	1,949	1,896
Other Student Population/Not Reported	28	356	115

[†] Consortium students are students from Metropolitan State University of Denver who take their remedial coursework at the Community College of Denver



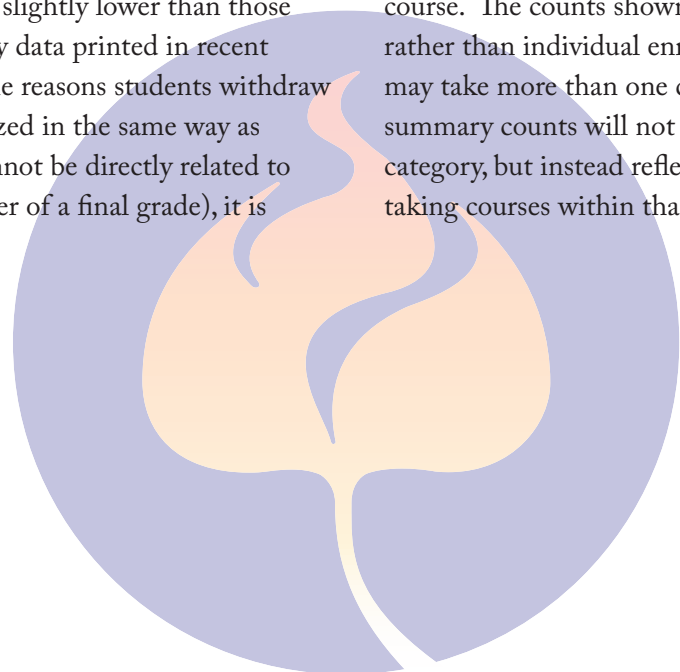
Academic Outcomes for Students in DE

In this report, the success of students enrolled in DE courses has been measured using several outcome metrics, including: success in DE courses, completion of college-level courses following success in a related DE course, and completion of degrees and certificates. The tables on the following pages describe these outcomes.

The DE course completion rates shown in the following tables use initial enrollments (as opposed to only course completions) as denominators. For this reason, passage rates shown in this report are slightly lower than those shown in the annual summary data printed in recent CCCS Fact Books³. While the reasons students withdraw from courses cannot be analyzed in the same way as final grades (a withdrawal cannot be directly related to discipline ability in the manner of a final grade), it is

important to recognize the effect of this phenomenon. In aggregate, 70.5% of students initially enrolled passed at least one course, while 76.9% of those receiving final grades (as opposed to withdrawals or incompletes) had at least one passing grade of A, B, C, or “Satisfactory”.

In the following tables, the passage rates for developmental courses, and data regarding subsequent college-level course completion are presented. In all cases, course completion is defined as receiving a grade of A, B, C, or “Satisfactory” in a course. The counts shown represent unique student counts, rather than individual enrollment records. As a student may take more than one developmental course in a term, summary counts will not be the sum of all counts within a category, but instead reflect the number of unique students taking courses within that category.



³ Beginning in 2011, course completion rates reported by CCCS Institutional Research have been calculated using the sum of all final grades as a denominator.

COURSE COMPLETION OUTCOMES⁴

TABLE 7

Course-level outcomes for students enrolled in DE reading and writing courses

Course	SUMMER 2009			FALL 2009			SPRING 2010		
	Initially Enrolled	Receiving Final Grade	Successfully Completing	Initially Enrolled	Receiving Final Grade	Successfully Completing	Initially Enrolled	Receiving Final Grade	Successfully Completing
ENG 030	78	69 (88.46%)	50 (64.10%)	473	429 (90.70%)	321 (67.86%)	329	293 (89.06%)	197 (59.88%)
ENG 060	386	346 (89.64%)	266 (68.91%)	2,028	1,830 (90.24%)	1,340 (66.07%)	1,654	1,457 (88.09%)	1,015 (61.37%)
ENG 090	1,391	1,272 (91.45%)	984 (70.74%)	5,670	5,071 (89.44%)	3,681 (64.92%)	5,189	4,535 (87.40%)	3,151 (60.72%)
REA 030	1,127	1,034 (91.75%)	744 (66.02%)	489	457 (93.46%)	349 (71.37%)	306	269 (87.91%)	172 (56.21%)
REA 060	1,276	1,160 (90.91%)	897 (70.30%)	1,431	1,306 (91.26%)	1,022 (71.42%)	1,185	1,039 (87.68%)	750 (63.29%)
REA 090	1,239	1,078 (87.01%)	787 (63.52%)	2,408	2,133 (88.58%)	1,564 (64.95%)	2,161	1,868 (86.44%)	1,354 (62.66%)
ALL READING/WRITING	2,242	2,061 (91.93%)	1,650 (73.60%)	9,413	8,511 (90.42%)	6,451 (68.53%)	8,417	7,455 (88.57%)	5,347 (63.53%)

TABLE 8

Successful completion of a college-level English course (ENG 121) within one year of DE course completion

DE Course	Successful DE course completers (all terms)	WITHIN ONE YEAR			WITHIN THREE YEARS		
		Number of completers enrolled in ENG 121	...received a final grade	...successfully completed	Number of completers enrolled in ENG 121	...received a final grade	...successfully completed
ENG 030	568	41 (7.22%)	41 (7.22%)	26 (4.58%)	149 (26.23%)	133 (23.42%)	114 (20.07%)
ENG 060	2,615	812 (31.05%)	812 (31.05%)	578 (22.10%)	1,173 (44.86%)	1,082 (41.38%)	915 (34.99%)
ENG 090	7,812	4,810 (61.57%)	4,810 (61.57%)	3,639 (46.58%)	5,257 (67.29%)	4,842 (61.98%)	4,150 (53.12%)
REA 030	553	94 (17.00%)	94 (17.00%)	56 (10.13%)	196 (35.44%)	178 (32.19%)	142 (25.68%)
REA 060	1,988	658 (33.10%)	658 (33.10%)	466 (23.44%)	922 (46.38%)	839 (42.20%)	704 (35.41%)
REA 090	3,332	1,708 (51.26%)	1,708 (51.26%)	1,235 (37.06%)	1,995 (59.87%)	1,795 (53.87%)	1,530 (45.92%)
ALL READING/WRITING	11,773	5,682 (48.26%)	5,682 (48.26%)	4,224 (35.88%)	6,562 (55.74%)	5,967 (50.68%)	5,107 (43.38%)

⁴ Cases in which students enrolled in an outcome course prior to enrolling in DE courses were excluded from this analysis. Simultaneous enrollments, however, were retained.

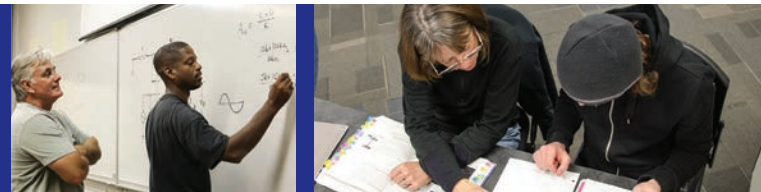


TABLE 9

Successful completion of College-level course listed in the gtPathways Program⁵ within one and three years of DE course completion

DE Course	Successful DE course completers (all terms)	WITHIN ONE YEAR			WITHIN THREE YEARS		
		Number of completers enrolled in ENG 121	...received a final grade	...successfully completed	Number of completers enrolled in ENG 121	...received a final grade	...successfully completed
ENG 030	568	185 (32.57%)	155 (27.29%)	117 (20.60%)	260 (45.77%)	260 (45.77%)	190 (33.45%)
ENG 060	2,615	1,478 (56.52%)	1,282 (49.02%)	1,024 (39.16%)	1,740 (66.54%)	1,740 (66.54%)	1,313 (50.21%)
ENG 090	7,812	6,168 (78.96%)	5,673 (72.62%)	4,982 (63.77%)	6,417 (82.14%)	6,417 (82.14%)	5,343 (68.39%)
REA 030	553	194 (35.08%)	167 (30.20%)	125 (22.60%)	276 (49.91%)	276 (49.91%)	202 (36.53%)
REA 060	1,988	1,100 (55.33%)	965 (48.54%)	756 (38.03%)	1,295 (65.14%)	1,295 (65.14%)	962 (48.39%)
REA 090	3,332	2,418 (72.57%)	2,174 (65.25%)	1,859 (55.79%)	2,594 (77.85%)	2,594 (77.85%)	2,075 (62.27%)
ALL READING/ WRITING	11,773	8,125 (69.01%)	7,304 (62.04%)	6,229 (52.91%)	8,698 (73.88%)	8,698 (73.88%)	6,931 (58.87%)

TABLE 10

Course-level outcomes for students enrolled in DE math courses

Course	SUMMER 2009			FALL 2009			SPRING 2010		
	initially enrolled	receiving final grade	successfully completing	initially enrolled	receiving final grade	successfully completing	initially enrolled	receiving final grade	successfully completing
MAT 030	1,034	744 (71.95%)	489 (47.29%)	4,902	4,501 (91.82%)	3,079 (62.81%)	4,124	3,767 (91.34%)	2,466 (59.80%)
MAT 060	1,276	1,160 (90.9%)	897 (70.3%)	5,083	4,488 (88.29%)	3,270 (64.33%)	5,385	4,828 (89.66%)	3,402 (63.18%)
MAT 090	1,239	1,078 (87.01%)	787 (63.52%)	4,728	3,994 (84.48%)	2,776 (58.71%)	4,945	4,239 (85.72%)	2,849 (57.61%)
MAT 099	996	842 (84.54%)	614 (61.65%)	4,103	3,307 (80.60%)	2,191 (53.40%)	3,921	3,254 (82.99%)	2,159 (55.06%)
ALL MATH	4,564	4,045 (88.63%)	2,989 (65.49%)	17,629	15,195 (86.19%)	10,474 (59.41%)	17,288	15,067 (87.15%)	10,077 (58.29%)

⁵ In order to facilitate comparison with pre-redesign course offerings, the gtPathways course list used in this report only includes courses that were designated as Guaranteed Transfer in Fall 2008.

TABLE 11

Successful completion of a college-level math course⁶ following successful completion of DE math courses in the 2009-2010 academic year

DE Course	Successful DE course completers (all terms)	WITHIN ONE YEAR			WITHIN THREE YEARS		
		Number of completers enrolled in a college-level math course	...received a final grade	...successfully completed	Number of completers enrolled in a college-level math course	...received a final grade	...successfully completed
MAT 030	6,275	418 (6.66%)	362 (5.77%)	299 (4.76%)	1,457 (23.22%)	1,293 (20.61%)	1,082 (17.24%)
MAT 060	7,562	1,421 (18.79%)	1,224 (16.19%)	1,045 (13.82%)	2,805 (37.09%)	2,518 (33.30%)	2,196 (29.04%)
MAT 090	6,403	2,299 (35.91%)	1,886 (29.45%)	1,631 (25.47%)	3,222 (50.32%)	2,853 (44.56%)	2,573 (40.18%)
MAT 099	4,955	3,298 (66.56%)	2,836 (57.24%)	2,461 (49.67%)	3,543 (71.50%)	3,185 (64.28%)	2,858 (57.68%)
ALL MATH	19,470	6,052 (31.08%)	5,149 (26.45%)	4,435 (22.78%)	8,275 (42.50%)	7,381 (37.91%)	6,519 (33.48%)

DEGREES AND CERTIFICATES

At the time of this report, 6,447 students enrolled in DE courses during the 2009-2010 academic year had earned a degree or certificate through CCCS. Of these, 3,076 had earned at least one certificate, while 4,462 had

earned associate degrees. Table 15 shows the counts of DE students who earned certificates and degrees during the 2009-2010 academic year and the three following years in greater detail.

TABLE 12

Counts of 2009-2010 DE students earning degrees or certificates by year

Type of Outcome	Awarded During the 2009-2010 Academic Year	Awarded During the 2010-2011 Academic Year	Awarded during the 2011-2012 Academic Year	Awarded During the 2012-2013 Academic Year
Associate Degrees	299	1,026	1,236	1,075
Certificates	519	678	565	439
Degree or Certificate	786	1,621	1,668	1,393

⁶ Eligible Math courses for this metric were: MAT103, MAT107, MAT108, MAT112, MAT120, MAT121, MAT135, MAT155, MAT156



2009-2010



SOURCES:

Course registration data retrieved from the Student Unit Record Data System (SURDS) and CCCS Operational Data Store using Cognos Report Studio.

Data on student characteristics, course grades, and degree outcomes retrieved from the CCCS Operational Data Store using Cognos Report Studio.

gtPathways Course List

Colorado Department of Education Reports



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