



## **DEVELOPMENTAL EDUCATION AND SUPPLEMENTAL ACADEMIC INSTRUCTION REPORT**

*ACADEMIC YEAR 2008 - 2009*



# 2008-2009



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 2008-2009 academic year, which covers the Summer 2008, Fall 2008, and Spring 2009 terms.

Readers of this report may be familiar with annual reports on remedial education published by the Colorado Department of Higher Education (CDHE) and the Colorado Commission on Higher Education (CCHE), which examine cohorts limited to new first-time students ages 17-19 in remedial/developmental education in all Colorado public higher education

institutions<sup>1</sup>. This report has a broader scope, including all students enrolling in developmental education at CCCS during the academic year. This difference in methodology will allow the present report to more fully describe the state of developmental education in the Colorado Community College System; due to the different groups of students included, 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 2008-2009 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 2008-2009 academic year.



## Enrollment in DE

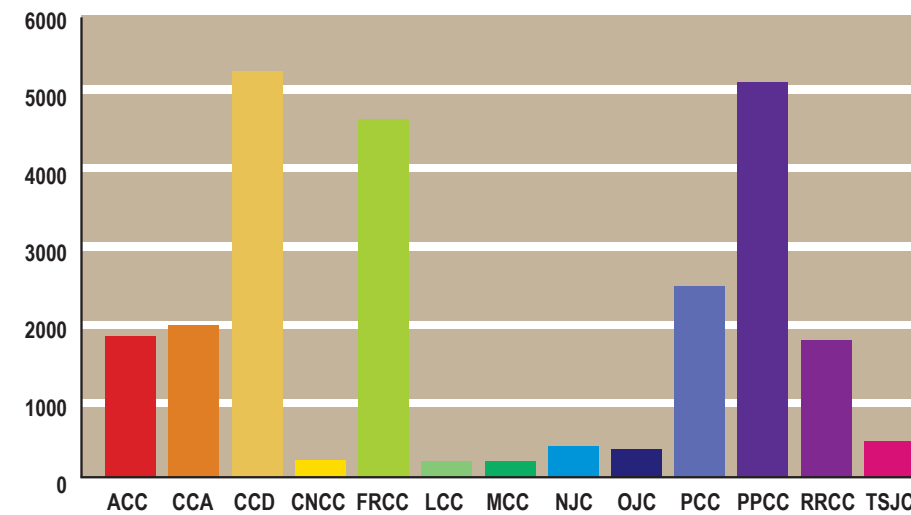
Depending on whether withdrawn and incomplete enrollment records are counted, between 19.57% and 21.09% of the 117,245 students included in the headcount reported by the 2008-2009 CCCS Fact Book enrolled in a DE course during this period. 24,764 unique students were recorded as having enrolled in at least one DE course in the Student Unit Record Data System (SURDS), with 22,654 unique students receiving a final grade (withdrawals and records with temporary grades such as “I” or “SP” are excluded from this number). Updated records in the CCCS Operational Data Store (ODS) show 24,729 unique students as having been enrolled in at least one DE course during this period, with 22,947 unique students receiving a final grade. While SURDS is considered the official record for many Colorado education statistics, the figures in this report

use the numbers obtained from the ODS in order to more accurately show the outcomes of course outcomes marked incomplete at the time of the initial report and 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 tables presented below summarize the patterns of enrollment in DE courses in the 2008-2009 academic year.

**TABLE 1**  
*Unique Initial Enrollment in DE Courses by Term*

SUMMER 2008	FALL 2008	SPRING 2009	TOTAL UNIQUE ENROLLMENT ACROSS ALL TERMS
3,764	14,393	14,132	24,729

**TABLE 2**  
*Unique Initial Enrollment in DE Courses by Institution<sup>2</sup>*



INSTITUTION	UNIQUE DE STUDENTS INITIALLY ENROLLED	...AS A PERCENTAGE OF INSTITUTION HEADCOUNT
ACC	1,825	12.21%
CCA	1,963	21.67%
CCD	5,247	39.14%
CNCC	225	9.42%
FRCC	4,625	18.68%
LCC	208	13.59%
MCC	207	7.75%
NJC	402	8.86%
OJC	364	17.70%
PCC	2,464	30.34%
PPCC	5,099	28.29%
RRCC	1,768	13.75%
TSJC	461	15.90%
CCCS	24,729	21.20%

<sup>1</sup> Colorado Department of Higher Education's reports and publications

<sup>2</sup> Unique students were identified at the institution level. The CCCS count is not a sum total, but instead a count of unique students system-wide. 129 students enrolled in DE courses at more than one CCCS institution during the time period under analysis.





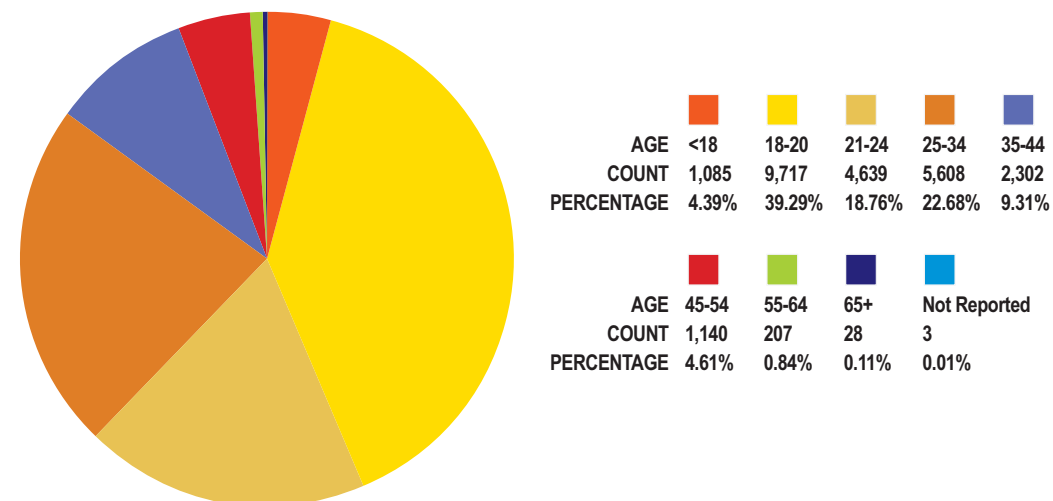
## Students in DE

The students enrolled in DE courses during this time period were somewhat younger on average than 28, the overall average age reported in the 2008-2009 CCCS Fact Book, with a mean age of 25 and a median age of 22 at the beginning of the Fall 2008 semester. Males and non-white minority groups were also represented to a greater extent in the DE population than in the

population as a whole. As many courses offered at CCCS colleges do not have prerequisite course requirements, many students taking DE courses during the 2008-2009 academic year were continuing students or re-admitted students. Table 6 describes the DE student population by academic period. Tables 4-7 summarize characteristics of the 2008-2009 Developmental Education student population.

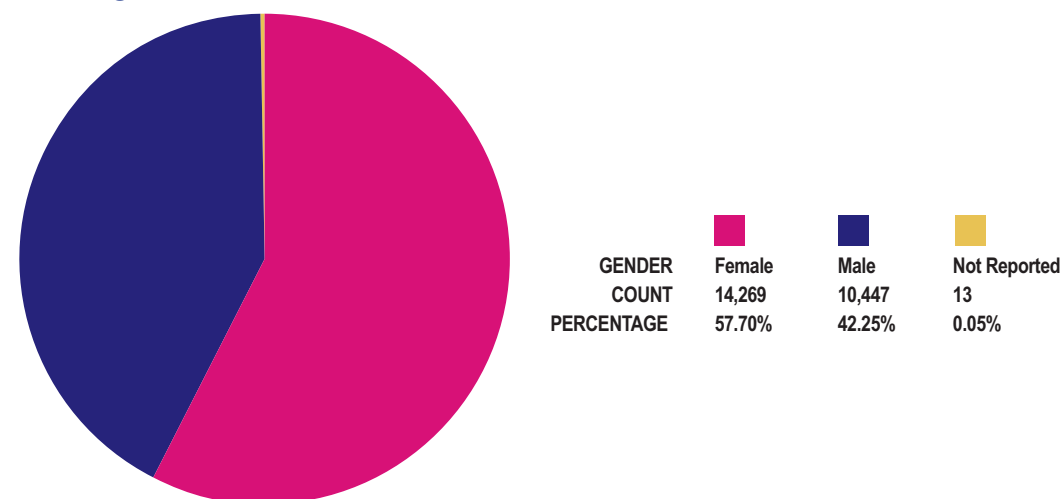
**FIGURE 3**

*Student age ranges*



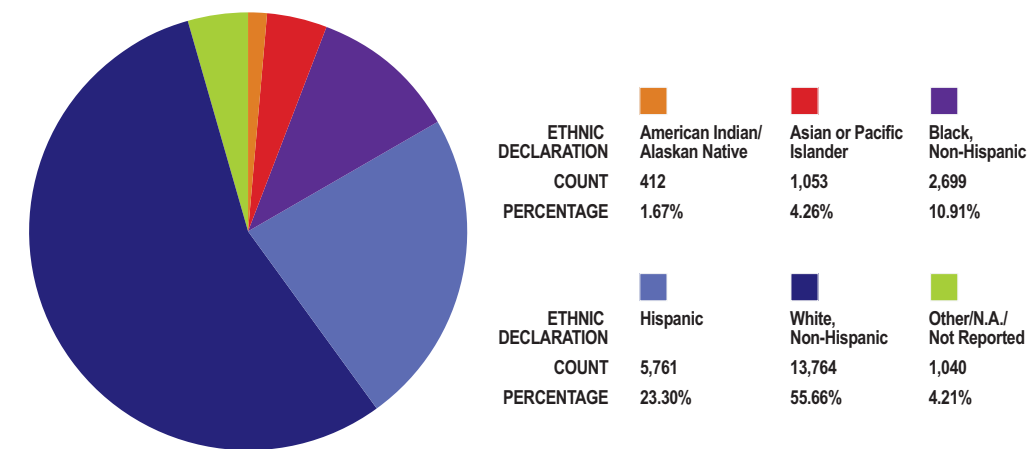
**FIGURE 4**

*Student gender*



**FIGURE 5**

*Student ethnicity*



**TABLE 6**

*Student population descriptions*

	SUMMER 2008	FALL 2008	SPRING 2009
New Student	1,148	6,671	3,544
External Transfer	219	833	658
Continuing Student	1,928	4,958	8,263
Re-Admit	244	723	625
Consortium Student (CCD Only) <sup>†</sup>	194	1,106	947
Other Student Population/Not Reported	27	102	93

<sup>†</sup> Consortium students are students from Metropolitan State University of Denver who take their remedial coursework at the Community College of Denver



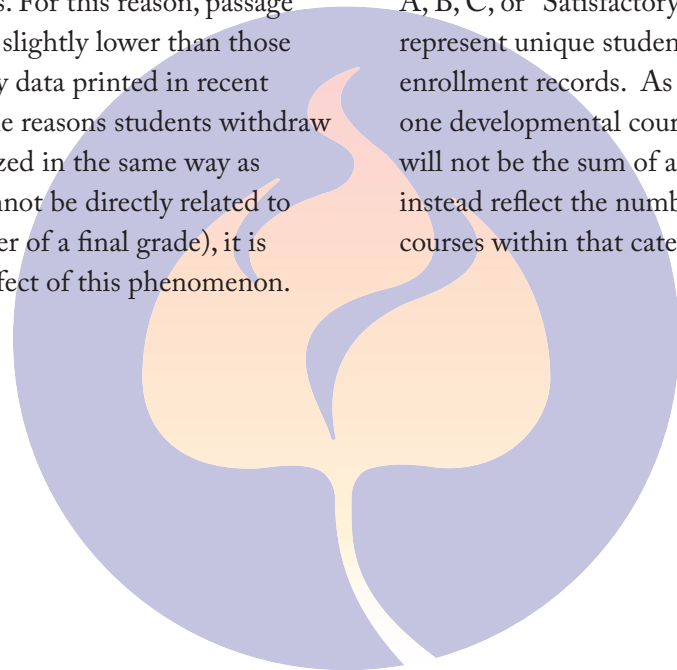
## Academic Outcomes for Students in DE

In this report, the success of students enrolled in developmental education 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 Books<sup>3</sup>. 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, the DE course success rate for the system in AY 2009 was 71% of initial enrollment, while 76.5% 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.



## COURSE COMPLETION OUTCOMES<sup>4</sup>

**TABLE 7**

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

Course	SUMMER 2008			FALL 2008			SPRING 2009		
	Initially Enrolled	Receiving Final Grade	Successfully Completing	Initially Enrolled	Receiving Final Grade	Successfully Completing	Initially Enrolled	Receiving Final Grade	Successfully Completing
ENG030	58	53 (91.38%)	42 (72.41%)	369	338 (91.60%)	248 (67.21%)	264	235 (89.02%)	164 (62.12%)
ENG060	273	254 (93.04%)	205 (75.09%)	1,557	1,415 (90.88%)	1,081 (69.43%)	1,243	1,097 (88.25%)	788 (63.40%)
ENG090	976	874 (89.55%)	675 (69.16%)	4,733	4,220 (89.16%)	3,129 (66.11%)	4,059	3,558 (87.66%)	2,424 (59.72%)
REA030	21	20 (95.24%)	13 (61.90%)	390	369 (94.62%)	280 (71.79%)	251	240 (95.62%)	168 (66.93%)
REA060	196	182 (92.86%)	155 (79.08%)	1,299	1,187 (91.38%)	906 (69.75%)	1,050	937 (89.24%)	689 (65.62%)
REA090	386	343 (88.86%)	277 (71.76%)	2,037	1,833 (89.99%)	1,341 (65.83%)	1,696	1,500 (88.44%)	1,104 (65.09%)
<b>ALL DE LANGUAGE</b>	<b>1,573</b>	<b>1,431 (90.97%)</b>	<b>1,156 (73.49%)</b>	<b>7,735</b>	<b>7,052 (91.17%)</b>	<b>5,405 (69.88%)</b>	<b>6,562</b>	<b>5,892 (89.79%)</b>	<b>4,238 (64.58%)</b>

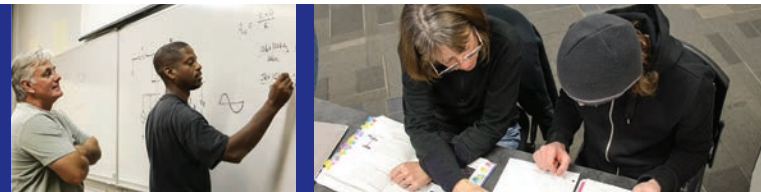
**TABLE 8**

*Successful completion of a college-level English course (ENG 121) 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
ENG030	452	30 (6.64%)	26 (5.75%)	22 (4.87%)	139 (30.75%)	131 (28.98%)	113 (25.00%)
ENG060	2,058	613 (29.79%)	539 (26.19%)	439 (21.33%)	894 (43.44%)	822 (39.94%)	704 (34.21%)
ENG090	6,225	3,755 (60.32%)	3,448 (55.39%)	2,923 (46.96%)	4,194 (67.37%)	3,934 (63.20%)	3,419 (54.92%)
REA030	459	74 (16.12%)	67 (14.60%)	56 (12.20%)	174 (37.91%)	162 (35.29%)	143 (31.15%)
REA060	1,737	602 (34.66%)	528 (30.40%)	435 (25.04%)	838 (48.24%)	771 (44.39%)	648 (37.31%)
REA090	2,721	1,412 (51.89%)	1,255 (46.12%)	1,058 (38.88%)	1,653 (60.75%)	1,511 (55.53%)	1,296 (47.63%)
<b>ALL DE LANGUAGE</b>	<b>9,465</b>	<b>4,472 (47.25%)</b>	<b>4,045 (42.74%)</b>	<b>3,417 (36.10%)</b>	<b>5,286 (55.85%)</b>	<b>4,902 (51.79%)</b>	<b>4,233 (44.72%)</b>

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

<sup>4</sup> 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 Program 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
ENG030	452	157 (34.73%)	125 (27.65%)	101 (22.35%)	233 (51.55%)	209 (46.24%)	172 (38.05%)
ENG060	2,058	1,158 (56.27%)	1,035 (50.29%)	840 (40.82%)	1,337 (64.97%)	1,238 (60.16%)	1,047 (50.87%)
ENG090	6,225	4,793 (77.00%)	4,500 (72.29%)	3,997 (64.21%)	5,044 (81.03%)	4,810 (77.27%)	4,336 (69.65%)
REA030	459	171 (37.25%)	145 (31.59%)	125 (27.23%)	236 (51.42%)	216 (47.06%)	191 (41.61%)
REA060	1,737	947 (54.52%)	829 (47.73%)	678 (39.03%)	1,126 (64.82%)	1,041 (59.93%)	878 (50.55%)
REA090	2,721	1,937 (71.19%)	1,770 (65.05%)	1,531 (56.27%)	2,083 (76.55%)	1,953 (71.78%)	1,727 (63.47%)
<b>ALL DE LANGUAGE</b>	<b>9,465</b>	<b>6,365 (67.25%)</b>	<b>5,832 (61.62%)</b>	<b>5,051 (53.37%)</b>	<b>6,897 (72.87%)</b>	<b>6,466 (68.31%)</b>	<b>5,698 (60.20%)</b>

**TABLE 10**

*Course-level outcomes for students enrolled in DE math courses*

Course	SUMMER 2008			FALL 2008			SPRING 2009		
	initially enrolled	receiving final grade	successfully completing	initially enrolled	receiving final grade	successfully completing	initially enrolled	receiving final grade	successfully completing
MAT030	752	694 (92.29%)	502 (66.76%)	3,756	3456 (92.01%)	2,279 (60.68%)	3,121	2,868 (91.89%)	1,864 (59.72%)
MAT060	960	885 (92.19%)	721 (75.10%)	4,027	3,679 (91.36%)	2,571 (63.84%)	4,040	3676 (90.99%)	2,570 (63.61%)
MAT090	1,057	916 (86.66%)	653 (61.78%)	3,842	3,224 (83.91%)	2,120 (55.18%)	3,934	3,343 (84.98%)	2,183 (55.49%)
MAT099	-	-	-	-	-	-	636	498 (78.30%)	309 (48.58%)
<b>ALL DE MATH</b>	<b>2,739</b>	<b>2,463 (89.92%)</b>	<b>1,850 (67.54%)</b>	<b>10,748</b>	<b>9,545 (88.81%)</b>	<b>6,424 (59.77%)</b>	<b>11,040</b>	<b>9,747 (88.29%)</b>	<b>6,466 (58.57%)</b>

**TABLE 11**

*Successful completion of a college-level math course<sup>5</sup> following successful completion of DE math courses in the 2008-2009 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
MAT030	4,638	303 (6.53%)	259 (5.58%)	216 (4.66%)	1,147 (24.73%)	1,036 (22.34%)	895 (19.30%)
MAT060	5,848	988 (16.89%)	852 (14.57%)	742 (12.69%)	2,164 (37.00%)	1,975 (33.77%)	1,735 (29.67%)
MAT090	4,952	1,707 (34.47%)	1,414 (28.55%)	1,219 (24.62%)	2,529 (51.07%)	2,259 (45.62%)	2,013 (40.65%)
MAT099	309	223 (72.17%)	186 (60.19%)	167 (54.05%)	251 (81.23%)	222 (71.84%)	207 (66.99%)
<b>ALL DE MAT COURSES</b>	<b>12,343</b>	<b>2,703 (21.90%)</b>	<b>2,271 (18.40%)</b>	<b>1,954 (15.83%)</b>	<b>4,559 (36.94%)</b>	<b>4,095 (33.18%)</b>	<b>3,596 (29.13%)</b>

x

**DEGREES AND CERTIFICATES**

At the time of this report, 4,583 students enrolled in ADE courses during the 2008-09 academic year had earned a degree or certificate through CCCS. Of these, 3,199 had earned at least one certificate, while 2,196 had

earned associate degrees. Table 15 shows the counts of DE students who earned certificates and degrees during the 2008-09 academic year and the three following years in greater detail.

**TABLE 12**

*Counts of earliest graduation or certificate attainment by 2008-2009 DE students*

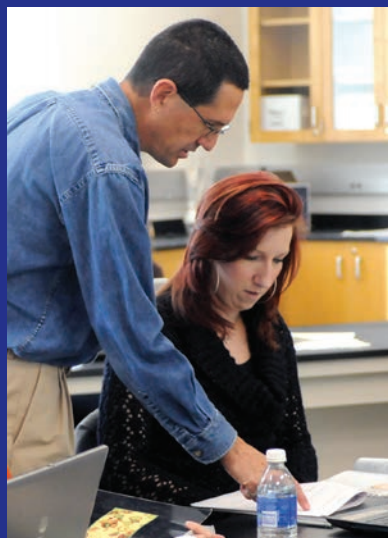
Type of Outcome	Awarded During the 2008-2009 Academic Year	Awarded During the 2009-2010 Academic Year	Awarded during the 2010-2011 Academic Year	Awarded During the 2011-2012 Academic Year
Associate Degrees	153	558	897	685
Certificates	344	432	399	292
Degree or Certificate	481	936	1,208	905

<sup>5</sup> Eligible Math courses for this metric were: MAT103, MAT107, MAT108, MAT112, MAT120, MAT121, MAT135, MAT155, MAT156





# 2008-2009



## **SOURCES:**

*Colorado Community College System*

*Academic Year 2008-2009 Fact Book*

*Colorado Community College System Institutional Research (2009).*

*2009 Colorado Commission on Higher Education Legislative Report on Remedial Education*

*Colorado Commission on Higher Education (2010).*

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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