



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

*ACADEMIC YEAR 2013-2014*



# 2013-2014



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. The present CCCS developmental education model includes content traditionally covered in 9th-12th grade in a high school curriculum. Adult learners who need content that is traditionally covered before 9th grade are encouraged to pursue adult basic education (ABE) programs (federal financial aid cannot be used for courses that cover content prior to high school so the partnership with ABE is essential). In Colorado, supplemental academic instruction (SAI) is a subset of the possibilities offered in developmental education. SAI is co-requisite academic instruction, developmental content paired with an introductory college level course. This report details the rates of enrollment and associated descriptive statistics for students enrolled in developmental education and supplemental academic instruction courses in the Colorado Community College System for the 2013-2014 academic year, which covers the Summer 2013, Fall 2013, and Spring 2014 terms.

Prior to 2013, all students not meeting placement requirements for college-level Reading, English, and/or Math were required to take DE courses as prerequisites to enrollment in many core college-level courses. Beginning in Fall 2013, several SAI course offerings were introduced in the community college system

to provide a co-requisite alternative to more traditional DE prerequisites, encouraging students to progress more quickly to college-level course completion by taking remedial coursework concurrently with college-level courses. These courses have been marked by asterisks (\*) in the following tables.

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 graduates<sup>1</sup>. This report has a broader scope, covering all students enrolling in developmental education at CCCS during the 2013-2014 academic year. This difference in methodology will allow the present report to more fully describe the state of DE and SAI 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 and SAI,”* shows enrollment counts for Developmental Education and Supplemental Academic Instruction courses separated by college. *“Students in DE and SAI”* examines the characteristics of students who enrolled in DE and SAI courses in the 2013-2014 academic year. The final section, *“Academic Outcomes for Students in DE and SAI,”* contains summary information about key outcome indicators for students enrolled in DE and SAI courses during the 2013-2014 academic year.

## Enrollment in DE and SAI

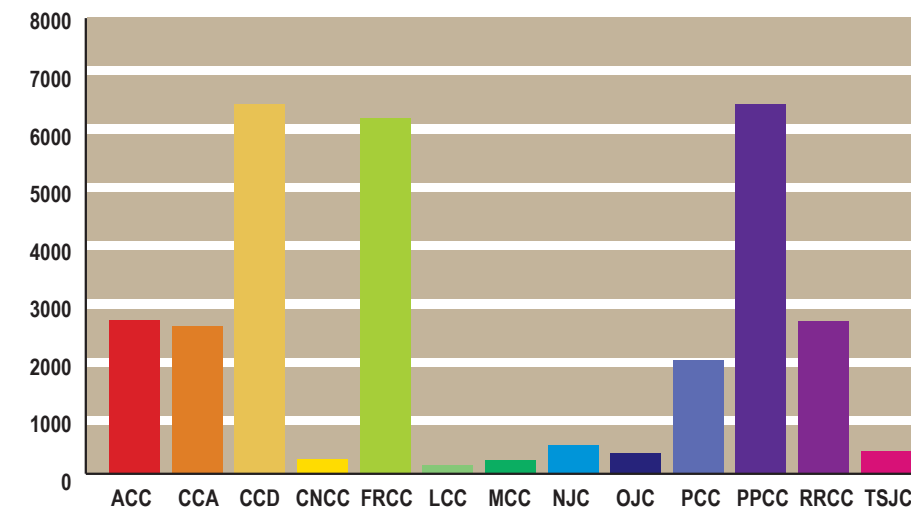
The following tables describe enrollment counts for Developmental Education and SAI courses by term, institution, and course. In the 2013-2014 academic year, 30,618 unique students were recorded as having enrolled in at least one DE course in the Student Unit Record Data System (SURDS). Records in the CCCS Operational Data Store (ODS), on the other hand, show 30,635 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.

**TABLE 1**  
*Unique initial enrollment in DE and SAI courses by term*

SUMMER 2013	FALL 2013	SPRING 2014	TOTAL UNIQUE ENROLLMENT ACROSS ALL TERMS
5,640	18,659	14,549	30,635

**TABLE 2**  
*Unique initial enrollment in DE and SAI courses, by institution<sup>2</sup>*



INSTITUTION	UNIQUE DE & SAI STUDENTS INITIALLY ENROLLED	...AS A PERCENTAGE OF INSTITUTION HEADCOUNT
ACC	2,672	13.52%
CCA	2,562	21.46%
CCD	6,428	41.04%
CNCC	245	13.99%
FRCC	6,172	21.19%
LCC	153	13.80%
MCC	235	9.33%
NJC	497	17.72%
OJC	363	17.11%
PCC	1,968	19.08%
PPCC	6,424	30.66%
RRCC	2,644	19.20%
TSJC	399	15.90%
CCCS (TOTAL)	30,635	23.11%

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

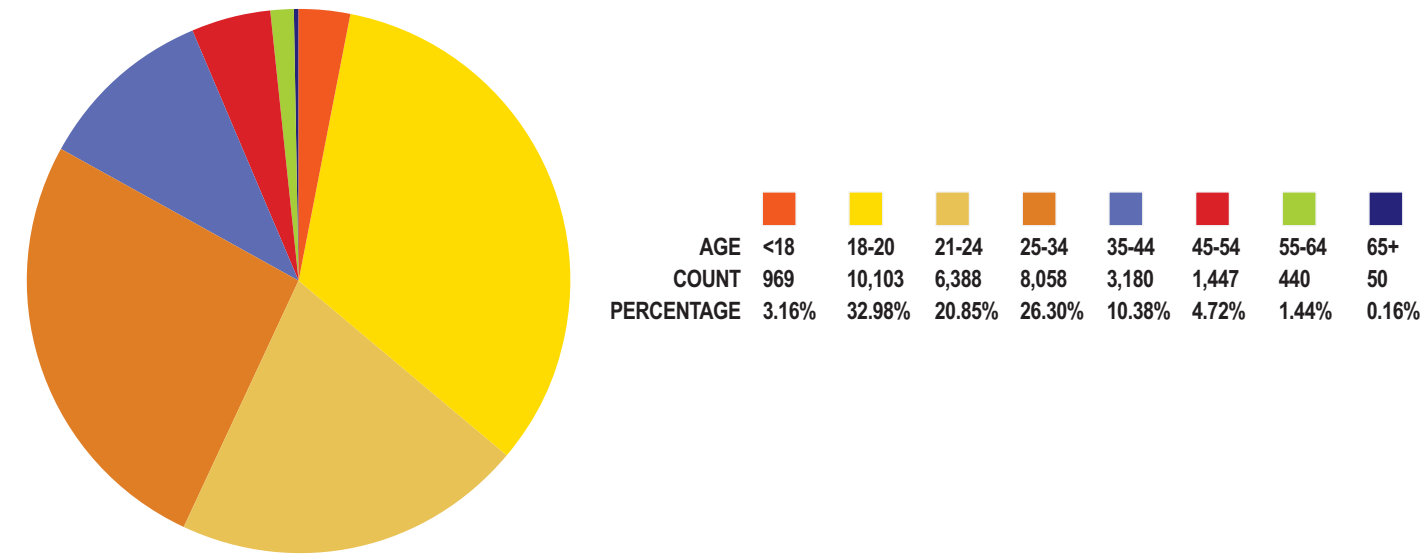
<sup>2</sup> Unique students were identified at the institution level in all cases save the total unique headcount.



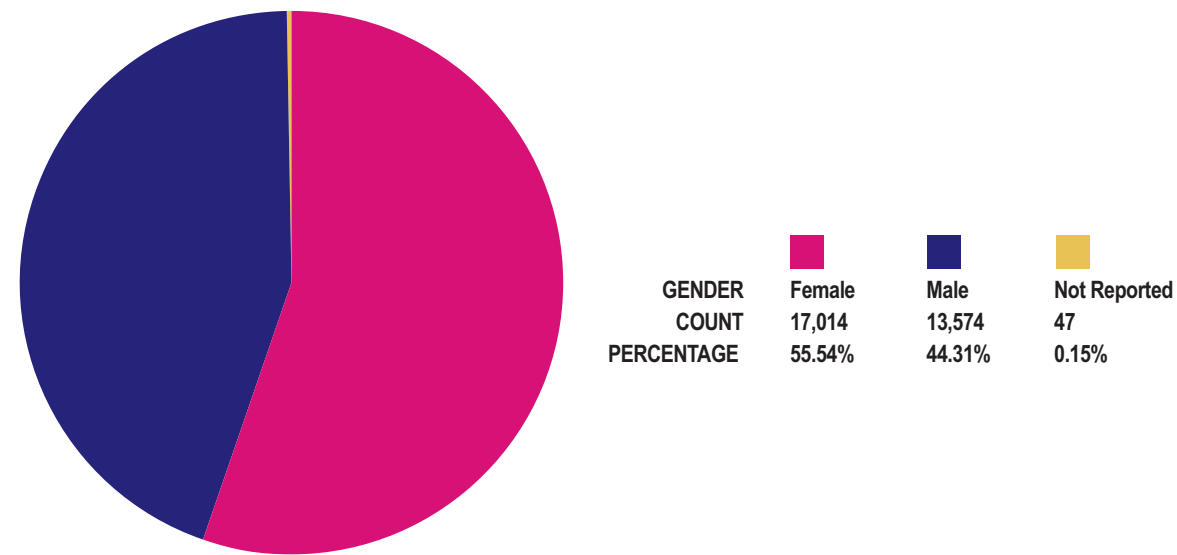
## Students in DE and SAI

The following tables summarize characteristics of the 2013-2014 DE and SAI student population.

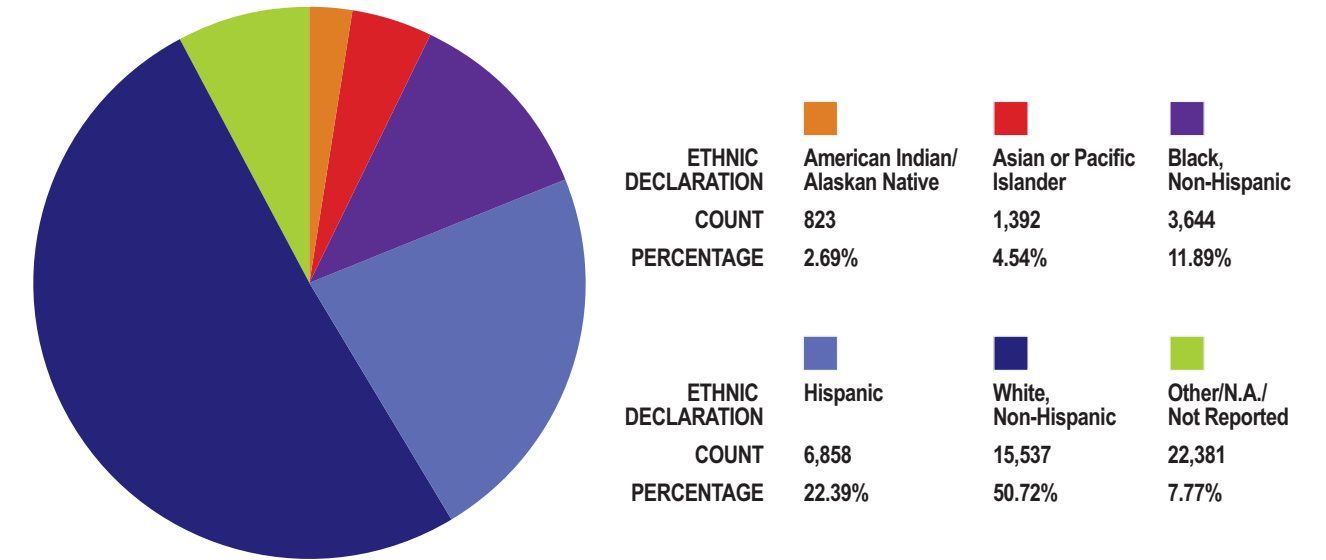
**FIGURE 3**  
*Student age ranges*



**FIGURE 4**  
*Student gender*



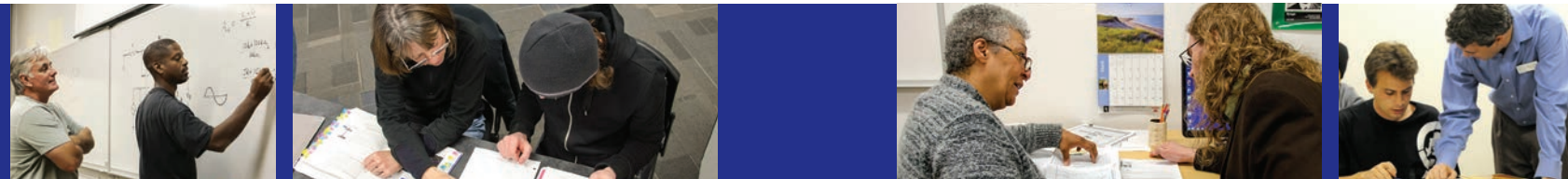
**FIGURE 5**  
*Student ethnicity*



**TABLE 6**  
*Student population descriptions*

	SUMMER 2013	FALL 2013	SPRING 2014
New Student	944	5,930	2,559
Transfer	553	1,619	1,233
Continuing Student	3,385	8,181	8,552
Re-Admit	391	1,039	739
Consortium Student (CCD Only) <sup>†</sup>	314	1,043	775
Other Student Population/Not Reported	53	847	694

<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 and SAI

In this report, the success of students enrolled in DE and SAI courses has been measured using several outcome metrics, including: success in DE and SAI courses, completion of college-level courses following success in a related DE and SAI 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, 68.3% of students initially enrolled in DE/SAI in AY 2014 passed at least one course, while 75.2% 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. Additionally, supplemental academic instruction courses offered concurrently with a college level course have been marked with an asterisk (\*). 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 College Composition and Reading (CCR) courses

Course	SUMMER 2013			FALL 2013			SPRING 2014		
	STUDENTS... Initially Enrolled	Receiving Final Grade	Successfully Completing	Initially Enrolled	Receiving Final Grade	Successfully Completing	Initially Enrolled	Receiving Final Grade	Successfully Completing
CCR 091	—	—	—	68	55 (80.88%)	33 (48.53%)	27	25 (92.59%)	15 (55.56%)
CCR 092	—	—	—	757	638 (84.28%)	427 (56.41%)	1,495	1,316 (88.03%)	898 (60.07%)
CCR 093*	—	—	—	286	263 (91.96%)	185 (64.69%)	283	261 (92.23%)	164 (57.95%)
CCR 094*	—	—	—	725	654 (90.21%)	517 (71.31%)	1,822	1,619 (88.86%)	1,216 (66.74%)
<b>ALL CCR</b>	—	—	—	<b>1,802</b>	<b>1,589 (88.18%)</b>	<b>1,151 (63.87%)</b>	<b>3,603</b>	<b>3,199 (88.79%)</b>	<b>2,279 (63.25%)</b>

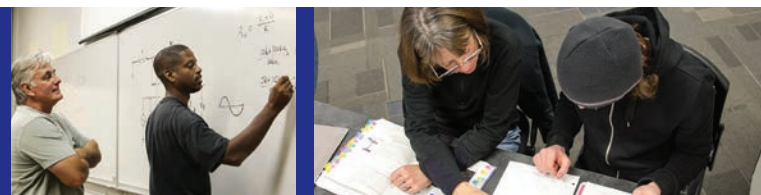
TABLE 8

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

DE COURSE	WITHIN ONE YEAR			
	SUCCESSFUL DE AND SAI COURSE COMPLETERS (ALL TERMS)	NUMBER OF COMPLETERS ENROLLED IN ENG 121	...RECEIVED A FINAL GRADE	...SUCCESSFULLY COMPLETED
CCR 091	48	30 (62.5%)	27 (56.25%)	23 (47.92%)
CCR 092	1,318	815 (61.84%)	680 (51.59%)	548 (41.58%)
CCR 093*	349	264 (75.64%)	223 (63.9%)	186 (53.3%)
CCR 094*	1,733	1,732 (99.94%)	1,725 (99.54%)	1,578 (91.06%)
<b>ALL CCR COURSES</b>	<b>3,407</b>	<b>2,809 (82.45%)</b>	<b>2,625 (77.05%)</b>	<b>2,307 (67.71%)</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 a 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<sup>5</sup> within one year of CCR completion*

DE COURSE	WITHIN ONE YEAR			
	SUCCESSFUL DE AND SAI COURSE COMPLETERS (ALL TERMS)	NUMBER OF COMPLETERS ENROLLED IN A GTPATHWAYS COURSE	...RECEIVED A FINAL GRADE	...successfully completed
CCR 091	48	35 (72.92%)	33 (68.75%)	30 (62.5%)
CCR 092	1,318	983 (74.58%)	854 (64.8%)	718 (54.48%)
CCR 093*	349	332 (95.13%)	323 (92.55%)	298 (85.39%)
CCR 094*	1,733	1,732 (99.94%)	1,726 (99.6%)	1,595 (92.04%)
<b>ALL CCR COURSES</b>	<b>3,407</b>	<b>3,046 (89.4%)</b>	<b>2,901 (85.15%)</b>	<b>2,608 (76.55%)</b>

**TABLE 10**

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

Course	SUMMER 2013			FALL 2013			SPRING 2014		
	initially enrolled	receiving final grade	successfully completing	initially enrolled	receiving final grade	successfully completing	initially enrolled	receiving final grade	successfully completing
ENG 030	9	8 (88.89%)	4 (44.44%)	16	14 (87.5%)	12 (75%)	16	16 (100%)	8 (50%)
ENG 060	337	302 (89.61%)	197 (58.46%)	1,028	962 (93.58%)	720 (70.04%)	202	191 (94.55%)	136 (67.33%)
ENG 090	1,454	1,301 (89.48%)	990 (68.09%)	4,174	3,796 (90.94%)	2,688 (64.4%)	1,300	1,147 (88.23%)	769 (59.15%)
REA 030	6	6 (100%)	5 (83.33%)	27	25 (92.59%)	18 (66.67%)	—	—	—
REA 060	250	236 (94.4%)	173 (69.2%)	782	728 (93.09%)	546 (69.82%)	159	1,147 (88.23%)	96 (60.38%)
REA 090	619	557 (89.98%)	408 (65.91%)	1,659	1,514 (91.26%)	1,115 (67.21%)	318	283 (88.99%)	192 (60.38%)
OTHER ENGLISH OR READING	100	87 (87%)	62 (62%)	626	579 (92.49%)	423 (67.57%)	4	4 (100%)	4 (100%)
<b>ALL READING/WRITING</b>	<b>2,277</b>	<b>2,061 (90.51%)</b>	<b>1,549 (68.03%)</b>	<b>6,413</b>	<b>5,900 (92%)</b>	<b>4,330 (67.52%)</b>	<b>1,768</b>	<b>1,576 (89.14%)</b>	<b>1,080 (61.09%)</b>

<sup>5</sup> 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 English course (ENG 121) within one year of DE and SAI course completion*

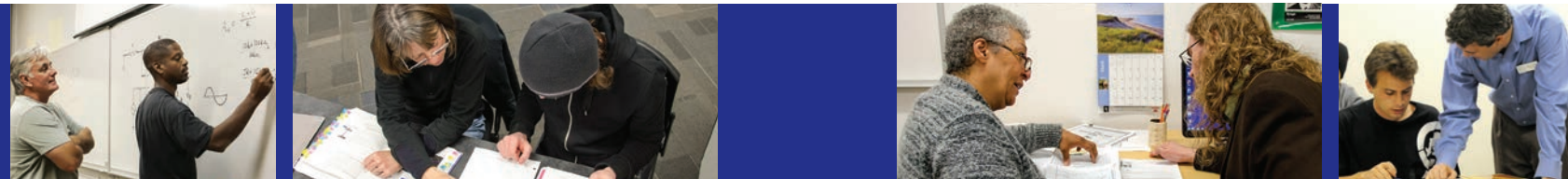
DE COURSE	WITHIN ONE YEAR			
	Successful DE and SAI course completers (all terms)	Number of completers enrolled in ENG 121	...received a final grade	...successfully completed
ENG 030	24	1 (4.17%)	1 (4.17%)	1 (4.17%)
ENG 060	1,053	471 (44.73%)	411 (39.03%)	326 (30.96%)
ENG 090	4,446	2,802 (63.02%)	2,528 (56.86%)	2,123 (47.75%)
REA 030	22	6 (27.27%)	6 (27.27%)	6 (27.27%)
REA 060	814	411 (50.49%)	361 (44.35%)	277 (34.03%)
REA 090	1,714	1,058 (61.73%)	956 (55.78%)	803 (46.85%)
Other English or Reading	164	206 (125.61%)	194 (118.29%)	152 (92.68%)
<b>ALL READING/WRITING</b>	<b>6,577</b>	<b>3,693 (56.15%)</b>	<b>3,307 (50.28%)</b>	<b>2,738 (41.63%)</b>

**TABLE 12**

*Successful completion of college-level course listed in the gtPathways Program<sup>6</sup> within one year of DE and SAI course completion*

DE Course	WITHIN ONE YEAR			
	Successful DE and SAI course completers (all terms)	Number of completers enrolled in a gtPathways course	...received a final grade	...successfully completed
ENG 030	24	10 (41.67%)	8 (33.33%)	7 (29.17%)
ENG 060	1,053	641 (60.87%)	577 (54.8%)	452 (42.92%)
ENG 090	4,446	3,285 (73.89%)	3,060 (68.83%)	2,676 (60.19%)
REA 030	4,446	10 (45.45%)	10 (45.45%)	9 (40.91%)
REA 060	814	518 (63.64%)	472 (57.99%)	377 (46.31%)
REA 090	1,714	1,265 (73.8%)	1,181 (68.9%)	1,014 (59.16%)
Other English or Reading	488	206 (42.21%)	194 (39.75%)	152 (31.15%)
<b>ALL ENGLISH AND READING COURSES</b>	<b>6,577</b>	<b>4,527 (68.83%)</b>	<b>4,191 (63.72%)</b>	<b>3,555 (54.05%)</b>

<sup>6</sup> 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 13**

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

Course	SUMMER 2013			FALL 2013			SPRING 2014		
	...initially enrolled	...receiving a final grade	...successfully completing	...initially enrolled	...receiving a final grade	...successfully completing	...initially enrolled	...receiving a final grade	...successfully completing
MAT 025*	—	—	—	237	214 (90.3%)	160 (67.51%)	485	406 (83.71%)	299 (61.65%)
MAT 030	73	68 (93.15%)	48 (65.75%)	153	133 (86.93%)	76 (49.67%)	11	10 (90.91%)	5 (45.45%)
MAT 050*	—	—	—	1,955	1,739 (88.95%)	1,184 (60.56%)	2,726	2,352 (86.28%)	1,620 (59.43%)
MAT 055*	—	—	—	1,144	987 (86.28%)	687 (60.05%)	2,256	1,861 (82.49%)	1,195 (52.97%)
MAT 060	456	397 (87.06%)	281 (61.62%)	1,151	1,024 (88.97%)	739 (64.21%)	188	177 (94.15%)	115 (61.17%)
MAT 090	456	1,125 (86.74%)	813 (62.68%)	3,012	2,603 (86.42%)	1,820 (60.42%)	2,381	2,056 (86.35%)	1,390 (58.38%)
MAT 091*	—	—	—	70	62 (88.57%)	45 (64.29%)	21	21 (100%)	16 (76.19%)
MAT 092*	—	—	—	4	4 (100%)	4 (100%)	3	3 (100%)	3 (100%)
MAT 093*	—	—	—	19	17 (89.47%)	15 (78.95%)	25	23 (92%)	22 (88%)
MT 099	1,103	930 (84.32%)	684 (62.01%)	19	17 (89.47%)	15 (78.95%)	1,894	1,591 (84%)	1,091 (57.6%)
Other Math	1,191	1,064 (89.34%)	745 (62.55%)	3,848	3,360 (87.32%)	2,147 (55.8%)	2,057	1,829 (88.92%)	1,159 (56.34%)
<b>ALL MATH</b>	<b>4,119</b>	<b>3,583 (86.99%)</b>	<b>2,570 (62.39%)</b>	<b>14,661</b>	<b>12,693</b>	<b>8,639</b>	<b>11,555</b>	<b>9,939 (86.01%)</b>	<b>6,670 (57.72%)</b>

**TABLE 14**

*Successful completion of a college-level math course following successful completion of DE and SAI math courses in the 2013-2014 academic year*

DE Course	Successful DE and SAI course completers (all terms)	WITHIN ONE YEAR		
		Number of completers enrolled in a college-level math course	...received a final grade	...successfully completed
MAT 025*	458	221 (48.25%)	160 (34.93%)	124 (27.07%)
MAT 030	129	10 (7.75%)	10 (7.75%)	10 (7.75%)
MAT 050*	2,802	975 (34.8%)	679 (24.23%)	558 (19.91%)
MAT 055*	1,881	1,069 (56.83%)	793 (42.16%)	627 (33.33%)
MAT 060	1,135	265 (23.35%)	218 (19.21%)	193 (17%)
MAT 090	4,018	1,626 (40.47%)	1,200 (29.87%)	989 (24.61%)
MAT 091*	61	54 (88.52%)	51 (83.61%)	48 (78.69%)
MAT 092*	7	7 (100%)	7 (100%)	7 (100%)
MAT 093*	37	37 (100%)	37 (100%)	29 (78.38%)
MAT 099	3,712	2,815 (75.84%)	2,353 (63.39%)	1,950 (52.53%)
Other Math	3,991	1,004 (25.16%)	757 (18.97%)	593 (14.86%)
<b>ALL MATH</b>	<b>15,423</b>	<b>6,830 (44.28%)</b>	<b>5,252 (34.05%)</b>	<b>4,296 (27.85%)</b>

**DEGREES AND CERTIFICATES**

At the time of this report, 2,035 students enrolled in DE courses during the 2013-2014 academic year had earned a degree or certificate through CCCS. Of these, 1,543 had earned at least one certificate, while 701 had earned associate degrees. Table 20 shows the counts of DE students who earned certificates and degrees during the 2013-2014 academic year and the following years in greater detail. Reports on CCCS developmental education from previous years have shown degree outcomes for DE students out to three years from the year of the report; it should be noted that the total number of students counted in this report receiving degrees or certificates will increase over time.

**TABLE 15**

*Counts of 2013-2014 DE students earning degrees or certificates by year*

Type of Outcome	Awarded During the 2013-2014 Academic Year	Awarded During the 2014-2015 Academic Year (as of April 21, 2015)
Associate Degrees	386	182
Certificates	565	211
Degree or Certificate	903	383

**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*, including annual remedial reports.



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