



COLORADO COMMUNITY
COLLEGE SYSTEM

Colorado Community College System

ACADEMIC YEAR 2008-2009 REMEDIAL ENROLLMENT AND COURSE COMPLETION RATES

FEBRUARY 2010

Remedial Course Enrollment

In the academic year 2008- 2009, there were over 47,000 enrollments in remedial courses throughout the community college system. Remedial course offerings include courses in Reading, English, and Math below the 100 level, with 10 total courses available in 2008-2009. Of the total enrollment, more than half were in one of the four math courses offered (Table 1), though English 090 was the course taken most frequently, accounting for over 20% of enrollments. Community College of Denver had the largest percentage of remedial course enrollments, with 21.4% of the entire remedial population (Table 2.)

Table 1. Remedial course enrollments throughout CCCS by course and term. Totals by subject are based on the sum of all remedial levels in each subject.

Remedial Course Enrollments in Academic Year 2008- 2009

Course	Term			Total	Percentage of Total Enrollment
	Summer 2008	Fall 2008	Spring 2009		
ENG 030	58	370	265	693	1.47%
ENG 060	273	1,560	1,244	3,077	6.54%
ENG 090	980	4,740	4,061	9,781	20.79%
All English	1,311	6,670	5,570	13,551	28.80%
MAT 030	754	3,758	3,124	7,636	16.23%
MAT 060	965	4,033	4,041	9,039	19.21%
MAT 090	1,058	3,851	3,940	8,849	18.81%
MAT 099	0	0	638	638	1.36%
All Math	2,777	11,642	11,743	26,162	55.61%
REA 030	21	390	252	663	1.41%
REA 060	196	1,301	1,050	2,547	5.41%
REA 090	388	2,038	1,700	4,126	8.77%
All Reading	605	3,729	3,002	7,336	15.59%
Total	4,693	22,041	20,315	47,049	



Table 2. Remedial course enrollments throughout CCCS by institution and subject. Totals by subject are based on the sum of all remedial levels in each subject.

Remedial Course Enrollments in Academic Year 2008- 2009

Institution		English	Math	Reading	Total	% of Total CCCS Remedial Enrollment
ACC	Remedial Enrollments	1,033	1,758	578	3,369	7.2%
	% of School Remedial Enrollment	30.7%	52.2%	17.2%		
CCA	Remedial Enrollments	1,142	1,776	782	3,700	7.9%
	% of School Remedial Enrollment	30.9%	48.0%	21.1%		
CCD	Remedial Enrollments	3,088	4,991	2,007	10,086	21.4%
	% of School Remedial Enrollment	30.6%	49.5%	19.9%		
CNCC	Remedial Enrollments	157	234	104	495	1.1%
	% of School Remedial Enrollment	31.7%	47.3%	21.0%		
FRCC	Remedial Enrollments	2,427	4,845	857	8,129	17.3%
	% of School Remedial Enrollment	29.9%	59.6%	10.5%		
LCC	Remedial Enrollments	114	208	43	365	0.8%
	% of School Remedial Enrollment	31.2%	57.0%	11.8%		
MCC	Remedial Enrollments	107	272	69	448	1.0%
	% of School Remedial Enrollment	23.9%	60.7%	15.4%		
NJC	Remedial Enrollments	308	526	205	1,039	2.2%
	% of School Remedial Enrollment	29.6%	50.6%	19.7%		
OJC	Remedial Enrollments	299	316	184	799	1.7%
	% of School Remedial Enrollment	37.4%	39.5%	23.0%		
PCC	Remedial Enrollments	1,384	3,018	974	5,376	11.4%
	% of School Remedial Enrollment	25.7%	56.1%	18.1%		
PPCC	Remedial Enrollments	2,375	5,879	1,013	9,267	19.7%
	% of School Remedial Enrollment	25.6%	63.4%	10.9%		
RRCC	Remedial Enrollments	884	1,829	342	3,055	6.5%
	% of School Remedial Enrollment	28.9%	59.9%	11.2%		
TSJC	Remedial Enrollments	233	510	178	921	2.0%
	% of School Remedial Enrollment	25.3%	55.4%	19.3%		
CCCS	Remedial Enrollments	13,551	26,162	7,336	47,049	100.0%
	% of School Remedial Enrollment	28.8%	55.6%	15.6%		

Over the past three academic years, remedial course enrollments have increased by nearly 14%, with reading being the fastest growing subject (Table 3.)

Table 3. Remedial course enrollments for all CCCS institutions by course and academic year. Totals by subject are based on the sum of all remedial levels in each subject.

3 Year Remedial Course Enrollment Comparison

Course	2006-2007	2007-2008	2008-2009
ENG 030	708	571	693
ENG 060	2,889	2,809	3,077
ENG 090	8,509	9,139	9,781
All English	12,106	12,519	13,551
MAT 030	6,681	6,765	7,636
MAT 060	7,756	8,102	9,039
MAT 090	8,543	8,339	8,849
MAT 099	n/a	n/a	638
All Math	22,980	23,206	26,162
REA 030	531	583	663
REA 060	2,112	2,127	2,547
REA 090	3,617	3,547	4,126
All Reading	6,260	6,257	7,336
Total	41,346	41,982	47,049

Of the 47,049 remedial course enrollments, there were 24,893 individual students enrolled in one or more remedial courses over the academic year (Table 4.) This equates to 21.2% of the overall headcount for academic year 2008- 2009. This is a slight increase over the percentage enrolled in academic year 2007-2008 (Table 5.) Nearly half of these students enrolled in only one remedial course, but 9.4% of remedial students were enrolled in four or more remedial courses during the academic year.

Table 4. Total number of unduplicated students enrolled in remedial courses in academic year 2008-2009. Percent of total student headcount is based on the academic year 2008- 2009 headcount of 117,245.

Total Number of Students Enrolled in Remedial Courses

	1 course	2 courses	3 courses	4+ courses	Total
# of Students	12,064	7,238	3,260	2,331	24,893
% of Remedial Students	48.5%	29.1%	13.1%	9.4%	100.0%
% of Total Student Headcount	10.3%	6.2%	2.8%	2.0%	21.2%

Table 5. Percent of students enrolled in remedial courses out of overall student headcount.

Percent of Students Enrolled in Remedial Courses

Institution	2007-2008	2008-2009
ACC	14.4%	12.2%
CCA	22.5%	21.7%
CCD	38.6%	39.2%
CNCC	9.5%	9.4%
FRCC	19.4%	18.7%
LCC	14.0%	13.6%
MCC	7.1%	7.7%
NJC	7.7%	8.9%
OJC	18.6%	17.7%
PCC	27.6%	30.4%
PPCC	26.3%	28.3%
RRCC	12.0%	13.8%
TSJC	13.9%	15.9%
CCCS	21.0%	21.2%

From academic year 2006-2007 to academic year 2008-2009, headcount has increased by 9.2%, and the overall percentage of students enrolled in remedial courses has slightly increased (Table 6.)

Table 6. Individual students enrolled in remedial courses compared to the overall academic year headcount.

3 year Remedial Enrollment vs. Headcount

	2006-2007	2007-2008	2008-2009
Students in Remedial Courses	20,344	22,494	24,893
Overall Headcount	107,348	107,028	117,245
% in Remedial	19.0%	21.0%	21.2%

Course Completion Rates

Of all remedial course enrollments, 61.5% ended in successful end of term completion (Table 7.) Course completion is defined as receiving an A, B, C or Satisfactory at end of term. Courses held in the summer term had higher completion rates at 68.1% than those enrolled in fall and spring semester with 62.1% and 59.3%, respectively. Overall, Reading courses had the highest completion rates (66.3%, compared to 64.1% for English and 58.8% for Math.)

Table 7. Remedial course completion rates for all CCCS institutions by course and term. Totals by subject are based on the sum of all remedial levels in each subject.

**Academic Year 2008-2009
Remedial Course Completion Rates by Course and Term**

Course	Term			Total
	Summer 2008	Fall 2008	Spring 2009	
ENG 030	70.7%	66.8%	61.5%	65.1%
ENG 060	75.1%	68.7%	63.1%	67.0%
ENG 090	68.4%	65.4%	59.1%	63.1%
All English	69.9%	66.2%	60.1%	64.1%
MAT 030	65.1%	58.8%	58.2%	59.2%
MAT 060	74.0%	61.9%	62.0%	63.3%
MAT 090	60.4%	54.0%	54.1%	54.8%
MAT 099	n/a	n/a	48.4%	48.4%
All Math	66.4%	58.3%	57.6%	58.8%
REA 030	61.9%	69.7%	65.5%	67.9%
REA 060	76.0%	68.9%	64.4%	67.6%
REA 090	70.9%	64.9%	64.5%	65.3%
All Reading	72.2%	66.8%	64.6%	66.3%
Total	68.1%	62.1%	59.3%	61.5%



Course completion rates have slightly decreased for all subjects (Table 8) since Academic Year 2006-2007.

Table 8. Remedial course completion rates for all CCCS institutions by course and academic year. Totals by subject are based on the sum of all remedial levels in each subject.

3 Year Course Completion Rate Comparison

Course	2006-2007	2007-2008	2008-2009
ENG 030	67.1%	65.7%	65.1%
ENG 060	66.2%	66.1%	67.0%
ENG 090	63.3%	62.5%	63.1%
All English	64.2%	63.4%	64.1%
MAT 030	60.1%	59.2%	59.2%
MAT 060	65.4%	63.2%	63.3%
MAT 090	56.1%	54.7%	54.8%
All Math	60.4%	59.0%	58.8%
REA 030	66.1%	61.4%	67.9%
REA 060	67.6%	67.1%	67.6%
REA 090	67.1%	64.0%	65.3%
All Reading	67.2%	64.8%	66.3%
Total	62.6%	61.2%	61.5%

Morgan Community College has the highest overall course completion rates, with 75% (Table 9.)

Table 9. Remedial course completion rates for all CCCS institutions by institution and subject for academic year 2008-2009. Totals by subject are based on the sum of all remedial levels in each subject.

**Academic Year 2008-2009
Remedial Course Completion Rates by Institution and Subject**

Institution	English	Math	Reading	Total
ACC	57.1%	60.4%	69.4%	60.9%
CCA	63.2%	57.8%	55.1%	58.9%
CCD	67.1%	57.5%	71.9%	63.3%
CNCC	66.2%	59.4%	74.0%	64.6%
FRCC	66.4%	63.7%	68.8%	65.1%
LCC	61.4%	58.2%	58.1%	59.2%
MCC	73.8%	75.7%	73.9%	75.0%
NJC	67.2%	54.0%	70.2%	61.1%
OJC	71.2%	70.3%	72.3%	71.1%
PCC	61.6%	56.8%	60.9%	58.8%
PPCC	61.1%	54.8%	62.6%	57.2%
RRCC	64.3%	60.7%	68.7%	62.6%
TSJC	59.2%	64.9%	61.2%	62.8%
CCCS	64.1%	58.8%	66.3%	61.5%

Table 10. Remedial course completion rates for all CCCS institutions by subject and academic year. Totals by subject are based on the sum of all remedial levels in each subject.

**3 Year Course Completion Rate Comparison
by Institution & Subject**

		2006-2007	2007-2008	2008-2009
ACC	English	56.2%	56.1%	57.1%
	Math	57.9%	63.3%	60.4%
	Reading	59.9%	67.2%	69.4%
	Total	57.7%	61.7%	60.9%
CCA	English	60.5%	65.2%	63.2%
	Math	51.5%	56.4%	57.8%
	Reading	51.9%	54.6%	55.1%
	Total	54.6%	58.9%	58.9%
CCD	English	65.2%	63.9%	67.1%
	Math	61.3%	55.2%	57.5%
	Reading	73.0%	68.1%	71.9%
	Total	64.6%	60.2%	63.3%
CNCC	English	78.8%	55.5%	66.2%
	Math	67.1%	56.5%	59.4%
	Reading	78.6%	58.0%	74.0%
	Total	72.4%	56.4%	64.6%
FRCC	English	67.4%	65.8%	66.4%
	Math	60.5%	61.0%	63.7%
	Reading	71.3%	69.8%	68.8%
	Total	63.7%	63.4%	65.1%
LCC	English	72.0%	55.9%	61.4%
	Math	64.7%	57.1%	58.2%
	Reading	67.6%	56.1%	58.1%
	Total	66.9%	56.6%	59.2%
MCC	English	71.1%	74.7%	73.8%
	Math	83.0%	83.2%	75.7%
	Reading	70.5%	88.7%	73.9%
	Total	78.6%	82.0%	75.0%



NJC	English	74.7%	66.8%	67.2%
	Math	59.5%	53.7%	54.0%
	Reading	74.3%	65.5%	70.2%
	Total	67.1%	60.0%	61.1%
OJC	English	67.3%	68.7%	71.2%
	Math	67.5%	65.4%	70.3%
	Reading	68.3%	72.8%	72.3%
	Total	67.5%	68.3%	71.1%
PCC	English	61.3%	63.8%	61.6%
	Math	64.4%	59.8%	56.8%
	Reading	57.5%	57.3%	60.9%
	Total	62.5%	60.5%	58.8%
PPCC	English	62.3%	60.8%	61.1%
	Math	58.5%	57.0%	54.8%
	Reading	67.8%	62.1%	62.6%
	Total	60.4%	58.6%	57.2%
RRCC	English	65.1%	65.1%	64.3%
	Math	61.4%	62.9%	60.7%
	Reading	77.8%	75.7%	68.7%
	Total	64.6%	65.0%	62.6%
TSJC	English	72.6%	64.4%	59.2%
	Math	65.5%	66.4%	64.9%
	Reading	76.7%	62.3%	61.2%
	Total	69.9%	65.1%	62.8%
CCCS	English	64.3%	63.4%	64.1%
	Math	60.4%	59.0%	58.8%
	Reading	67.2%	64.8%	66.3%
	Total	62.6%	61.2%	61.5%

For unsuccessful course completions, it appears that students are withdrawing at a comparable rate across courses and subjects with the exception of MAT 099 (Table 11.) As seen nationally, math courses in general have the lowest pass rates. These lower passing rates can be attributed to greater rates of failures and incompletes, which are both higher than those for English and Reading.

Table 11. End of term completion status by course for academic year 2008-2009. Totals by subject are based on the sum of all remedial levels in each subject.

Remedial Course End of Term Completion Status

Course	Status				
	Pass	Fail	Withdraw	Incomplete	Missing
ENG 030	65.1%	24.4%	9.7%	0.7%	0.1%
ENG 060	67.0%	22.1%	9.7%	1.0%	0.1%
ENG 090	63.1%	24.4%	11.0%	1.3%	0.2%
All English	64.1%	23.9%	10.6%	1.2%	0.1%
MAT 030	59.2%	29.5%	7.5%	3.7%	0.1%
MAT 060	63.3%	24.7%	8.4%	3.3%	0.2%
MAT 090	54.8%	27.1%	15.0%	2.9%	0.1%
MAT 099	48.4%	28.4%	21.9%	1.3%	0.0%
All Math	58.8%	27.0%	10.7%	3.2%	0.1%
REA 030	67.9%	24.6%	4.7%	2.4%	0.5%
REA 060	67.6%	20.6%	9.2%	2.2%	0.2%
REA 090	65.3%	22.7%	10.4%	1.4%	0.2%
All Reading	66.3%	22.2%	9.5%	1.7%	0.2%
Total	61.5%	25.3%	10.5%	2.4%	0.1%

In general, rural colleges have higher overall course completion rates, particularly in math courses (Table 12.)

Table 12. Remedial course completion rates by subject for rural and urban colleges. Totals by subject are based on the sum of all remedial levels in each subject. Urban colleges include ACC, CCA, CCD, FRCC, PCC, PPCC, and RRCC. Rural colleges include CNCC, LCC, MCC, NJC, OJC and TSJC.

Remedial Course Completion Rates by College Location

	Urban	Rural
English	63.8%	66.6%
Math	58.5%	63.1%
Reading	66.0%	68.8%
Total	61.2%	65.2%

Remedial Student Success

In academic year 2008-2009, 17,426 individual students successfully completed at least one course, or 70% of students enrolled in remedial courses (Table 13.)

Table 13. Count of students that successfully completed at least one remedial course compared to the overall number of students enrolled in remedial courses, by institution, for the academic year 2008-2009.

Students Successfully Completing a Remedial Course

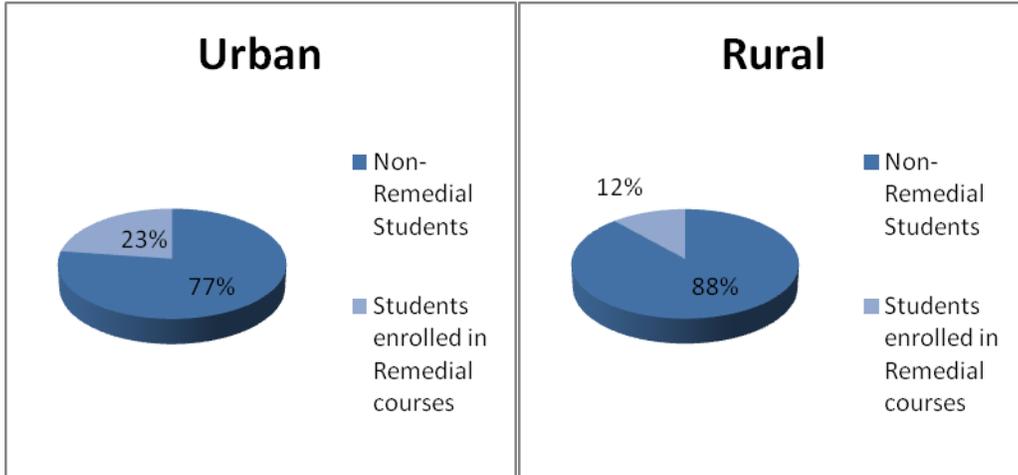
Institution	Students Completing a Remedial Course	Students Enrolled in Remedial Courses	Percentage
ACC	1,300	1,828	71.1%
CCA	1,357	1,964	69.1%
CCD	3,756	5,255	71.5%
CNCC	167	225	74.2%
FRCC	3,375	4,628	72.9%
LCC	139	208	66.8%
MCC	165	207	79.7%
NJC	283	402	70.4%
OJC	272	364	74.7%
PCC	1,675	2,466	67.9%
PPCC	3,345	5,109	65.5%
RRCC	1,262	1,776	71.1%
TSJC	330	461	71.6%
CCCS	17,426	24,893	70.0%

The following figures compare the percentage of students enrolled in remedial courses by college type, as well as the percentage of those who enrolled in remedial courses who have successfully completed at least one within the academic year.

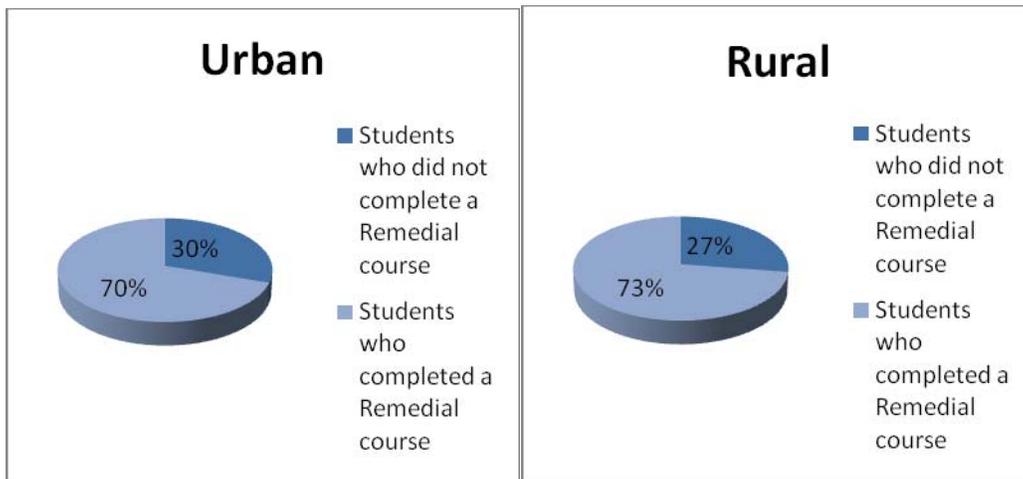
A greater percentage of the students at urban institutions are enrolled in remedial courses than at rural (Figure 1.) A greater percentage of students at rural institutions successfully complete their remedial coursework.

Figure 1. Overall headcount by remedial and non-remedial enrollment, and unduplicated remedial enrollment by completion and non completion status by rural and urban college.

Remedial vs. Non-Remedial Enrollment



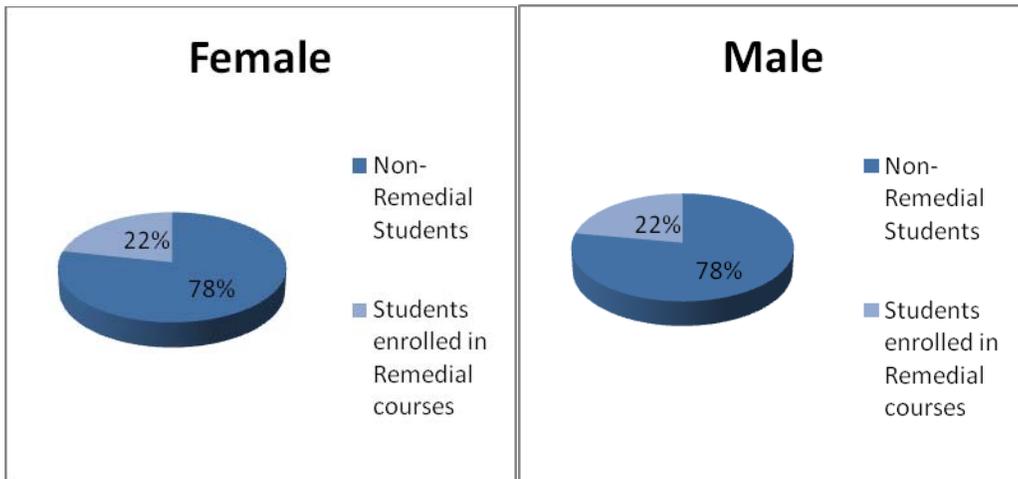
Successful vs. Unsuccessful Completion



By and large, students enrolled in remedial courses are closely reflective of the overall population based on gender (Figure 2.) However, a greater percentage of female students than male students successfully complete their remedial coursework.

Figure 2. Overall headcount by remedial and non-remedial enrollment, and unduplicated remedial enrollment by completion and non completion status by gender.

Remedial vs. Non-Remedial Enrollment



Successful vs. Unsuccessful Completion

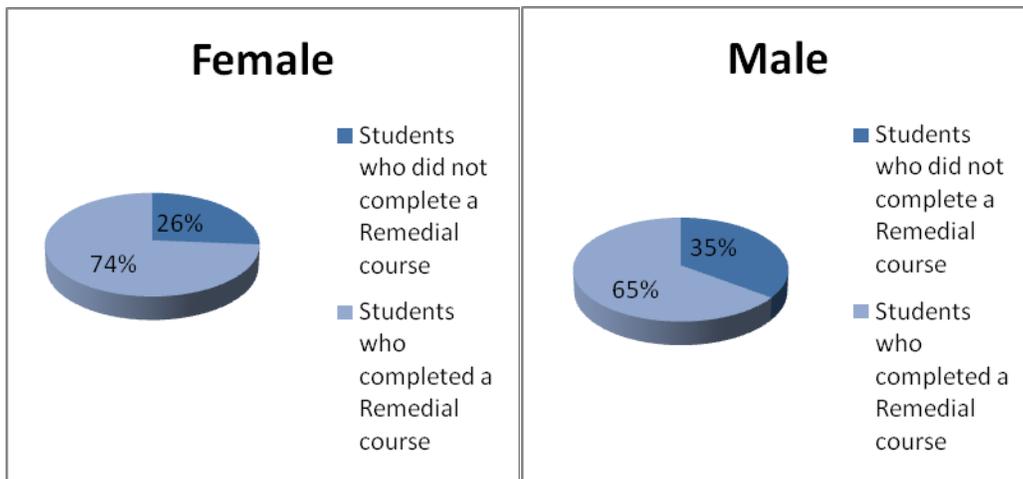


Table 14. Academic year 2008-2009 remedial students and Fall 2008 overall headcount by gender, by institution.

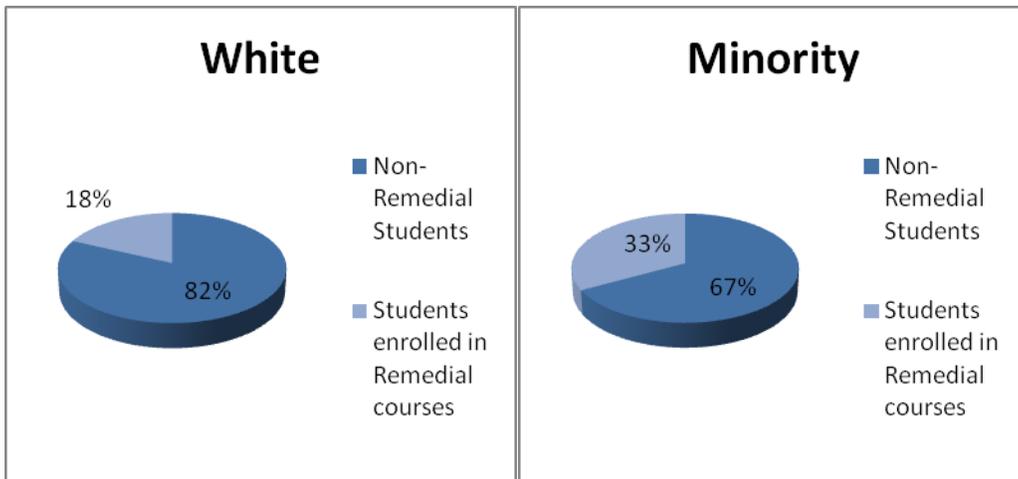
Remedial Students vs. Overall Headcount by Gender Percentage

Institution	Remedial Students 2008-2009		Overall Fall 2008 Headcount	
	Female	Male	Female	Male
ACC	59.2%	40.8%	61.5%	36.8%
CCA	62.7%	37.2%	60.2%	39.8%
CCD	55.2%	44.7%	60.1%	39.8%
CNCC	53.3%	46.2%	57.9%	41.9%
FRCC	56.3%	43.7%	57.1%	42.9%
LCC	66.8%	31.7%	61.2%	38.4%
MCC	80.2%	19.3%	64.9%	34.9%
NJC	46.8%	53.0%	62.0%	38.0%
OJC	56.6%	43.4%	61.3%	38.7%
PCC	61.3%	38.6%	62.8%	37.1%
PPCC	59.2%	40.8%	59.5%	40.4%
RRCC	50.5%	49.2%	49.0%	50.7%
TSJC	64.4%	34.9%	54.9%	44.9%
CCCS	57.7%	42.2%	58.6%	41.2%

Consistent with national data, greater percentages of minority students are enrolled in remedial courses than white students (Figure 3.) Nearly 40% of the students enrolled in remedial courses are minorities (Table 14.) In addition, white students complete their remedial courses at a higher rate than minority students.

Figure 3. Overall headcount by remedial and non-remedial enrollment, and unduplicated remedial enrollment by completion and non completion status by ethnicity. Minority students include Black Non-Hispanic, Hispanic, Asian / Pacific Islander, and American Indian / Alaska Native.

Remedial vs. Non-Remedial Enrollment



Successful vs. Unsuccessful Completion

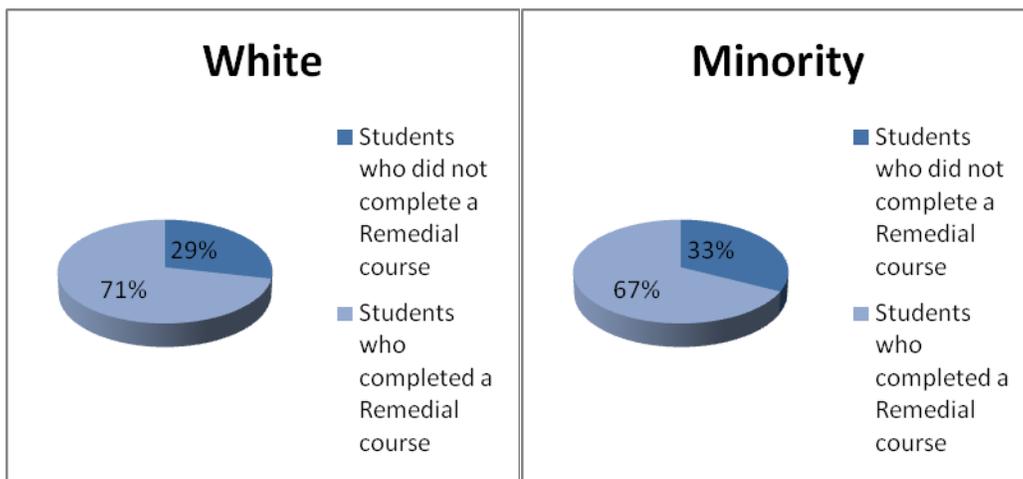


Table 15. Academic year 2008-2009 remedial students and Fall 2008 overall headcount by ethnicity, by institution.

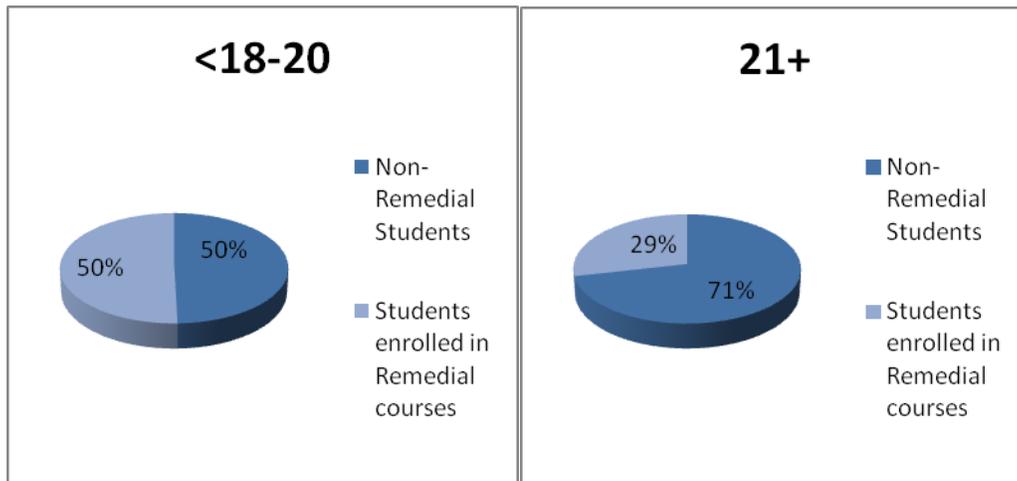
Remedial Students vs. Overall Headcount by Ethnicity Percentage

Institution	Remedial Students 2008-2009		Overall Fall 2008 Headcount	
	White	Minority	White	Minority
ACC	70.2%	24.9%	74.8%	17.1%
CCA	33.8%	60.6%	45.4%	42.7%
CCD	38.6%	53.6%	42.2%	46.2%
CNCC	72.9%	24.0%	79.6%	12.2%
FRCC	66.8%	27.6%	75.7%	17.9%
LCC	50.0%	26.0%	56.0%	17.7%
MCC	62.3%	30.0%	72.3%	15.0%
NJC	64.9%	30.1%	84.1%	10.7%
OJC	35.7%	45.1%	51.6%	29.3%
PCC	47.8%	49.1%	57.6%	38.4%
PPCC	62.7%	34.3%	69.1%	26.7%
RRCC	69.9%	24.0%	76.6%	17.3%
TSJC	34.1%	57.3%	53.7%	45.6%
CCCS	54.8%	39.6%	66.1%	26.3%

It is clear that recent high school graduates are more likely to be enrolled in remedial courses than those from older age categories (Figure 4.) While students <18 – 20 account for 36 percent of the overall population, they account for 41 percent of the remedial population (Table 16.) As age increases, it is less likely that students will be enrolled in remedial courses, and students in the older age categories are more likely to successfully complete at least one remedial course.

Figure 4. Overall headcount by remedial and non-remedial enrollment, and unduplicated remedial enrollment by completion and non completion status by age category.

Remedial vs. Non-Remedial Enrollment



Successful vs. Unsuccessful Completion

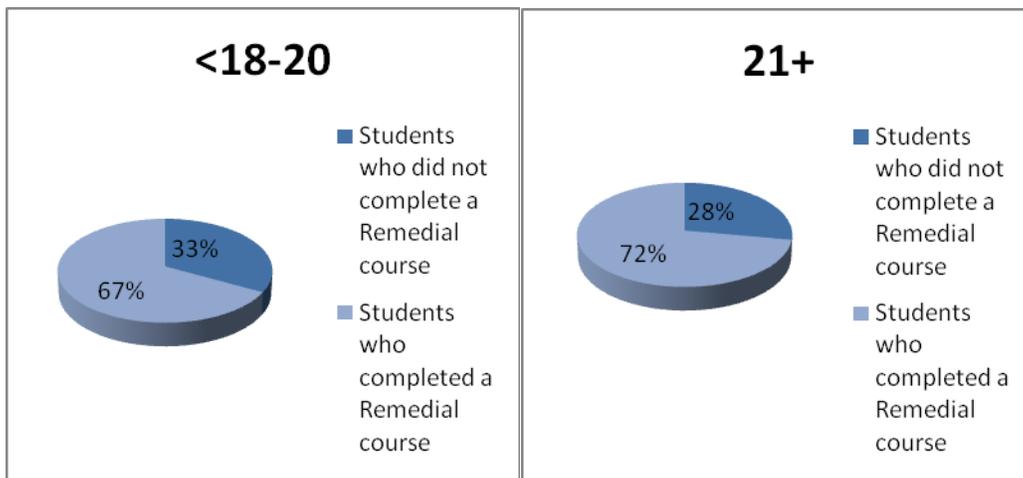


Table 16. Academic year 2008-2009 remedial students and Fall 2008 overall headcount by age group, by institution.

Remedial Students vs. Overall Headcount by Age Group Percentage

Institution	Remedial Students 2008-2009		Overall Fall 2008 Headcount	
	<18-20	21+	<18-20	21+
ACC	40.8%	59.2%	28.6%	71.4%
CCA	36.6%	63.4%	29.7%	70.3%
CCD	45.9%	54.0%	36.3%	63.7%
CNCC	64.0%	36.0%	44.2%	55.8%
FRCC	45.4%	54.6%	36.4%	63.6%
LCC	37.5%	62.5%	57.6%	42.4%
MCC	33.3%	66.7%	48.0%	52.0%
NJC	73.4%	26.6%	40.8%	59.2%
OJC	54.1%	45.9%	52.4%	47.6%
PCC	30.4%	69.6%	32.3%	67.7%
PPCC	36.5%	63.5%	34.0%	66.0%
RRCC	42.1%	57.9%	33.1%	66.9%
TSJC	39.7%	60.3%	41.8%	58.2%
CCCS	41.4%	58.6%	35.5%	64.5%



Sources:

All course completion rates were compiled from frozen end of term course files for the academic year 2009. All course enrollments with a final grade of AU, or audit, were removed before rates were calculated.

Course completion rates for AY 2007 and 2008 are available in the Remedial Course Completions Report for 2007 & 2008, available on the web at <http://www.cccs.edu/Docs/Research/Remedial%20Completion%20Status%20Report.pdf>.

Overall headcount is published in the annual Fact Book, and is based on frozen end of term enrollment files. Students enrolled in more than one institution within CCCS may be counted twice.