Cuyamaca College
## CTE Tutoring: CADD, CD, CIS, CISCO, CS, GD, and WWTR
Fall 2012 - Spring 2013

This report shows course retention rates and course success rates for CTE students at Cuyamaca College who used the Tutoring Center as compared to CTE students that did not use the Tutoring Center. Outcome and demographic data are from the research database, and CTE tutoring attendance data were provided by the Tutoring Center. In the report, outcome and demographic data for all CTE students are summarized first, followed by outcome data separated by discipline and course for CADD, CD, CIS, CISCO, CS, GD, and WWTR. Courses that had no CTE tutoring students enrolled were excluded, and courses with fewer than five CTE tutoring students were combined into an "other" category for each discipline.

Summary of Findings

- Overall, the rates of course retention and course success for CTE students who used the Tutoring Center were significantly higher than for CTE students who did not use the Tutoring Center.
- For CADD students, the rates of course retention were significantly higher for students who used CTE tutoring services than for CADD students that did use CTE tutoring services, however their rates of course success were not significantly different.
- CD, CIS, CISCO, and GD students who used CTE tutoring services had significantly higher rates of course retention and rates of course success than students in these courses that did not use CTE tutoring services.
- The outcomes for CS and WWTR students who used CTE tutoring services were not significantly different from the outcomes of students in these courses that did not use CTE tutoring services.

Student Outcomes: Overall

CTE Tutoring
Fall 2012 - Spring 2013
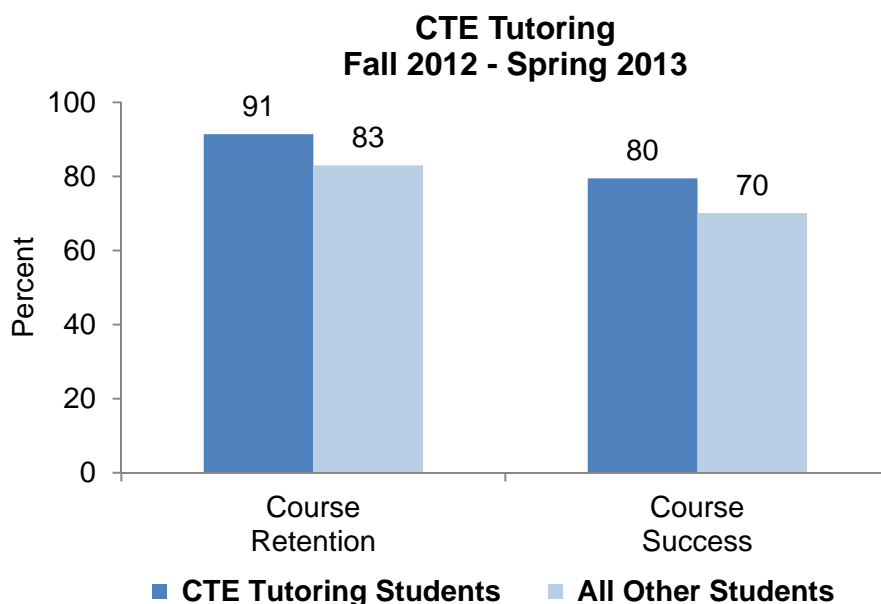
The course retention rates and course success rates for CTE students who used the Tutoring Center were significantly higher than for CTE students who did not use the Tutoring Center ($\chi^2 = 28.3$, $p < .001$ and $\chi^2 = 23.1$, $p < .001$, respectively).

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
1 of 20

Retention Rates: By Term

CTE Tutoring Combined Retention Rates by Term

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Fall 2012	CTE Tutoring	252	92.0	22	8.0	274
	All Others	1,287	83.8	249	16.2	1,536
Spring 2013	CTE Tutoring	340	90.9	34	9.1	374
	All Others	1,252	82.3	270	17.7	1,522
Overall	**CTE Tutoring**	**592**	**91.4**	**56**	**8.6**	**648**
	All Others	**2,539**	**83.0**	**519**	**17.0**	**3,058**

Retention Rates: By Demographics

CTE Tutoring Combined Retention Rates by Gender

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Female	CTE Tutoring	216	97.3	6	2.7	222
	All Others	1,226	84.6	223	15.4	1,449
Male	CTE Tutoring	376	88.3	50	11.7	426
	All Others	1,289	81.6	290	18.4	1,579
Not Reported	CTE Tutoring	0	0.0	0	0.0	0
	All Others	24	80.0	6	20.0	30

CTE Tutoring Combined Retention Rates by Ethnicity

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Asian	CTE Tutoring	44	100.0	0	0.0	44
	All Others	179	83.6	35	16.4	214
Black non-Hispanic	CTE Tutoring	23	82.1	5	17.9	28
	All Others	162	79.0	43	21.0	205
Hispanic	CTE Tutoring	109	94.8	6	5.2	115
	All Others	692	80.8	164	19.2	856
Two or More	CTE Tutoring	49	89.1	6	10.9	55
	All Others	203	79.3	53	20.7	256
White non-Hispanic	CTE Tutoring	320	89.9	36	10.1	356
	All Others	1,179	85.1	206	14.9	1,385
Not Reported/Other	CTE Tutoring	47	94.0	3	6.0	50
	All Others	124	87.3	18	12.7	142

CTE Tutoring Combined Retention Rates by Disability Status

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Disability	CTE Tutoring	60	93.8	4	6.3	64
	All Others	231	87.5	33	12.5	264
No Disability	CTE Tutoring	532	91.1	52	8.9	584
	All Others	2,308	82.6	486	17.4	2,794

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
2 of 20

Success Rates: By Term

CTE Tutoring Combined Success Rates by Term

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Fall 2012	CTE Tutoring	224	81.8	28	10.2	22	8.0	274
	All Others	1,100	71.6	187	12.2	249	16.2	1,536
Spring 2013	CTE Tutoring	291	77.8	49	13.1	34	9.1	374
	All Others	1,044	68.6	208	13.7	270	17.7	1,522
Overall	**CTE Tutoring**	**515**	**79.5**	**77**	**11.9**	**56**	**8.6**	**648**
	All Others	**2,144**	**70.1**	**395**	**12.9**	**519**	**17.0**	**3,058**

Success Rates: By Demographics

CTE Tutoring Combined Success Rates by Gender

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Female	CTE Tutoring	201	90.5	15	6.8	6	2.7	222
	All Others	1,085	74.9	141	9.7	223	15.4	1,449
Male	CTE Tutoring	314	73.7	62	14.6	50	11.7	426
	All Others	1,040	65.9	249	15.8	290	18.4	1,579
Not Reported	CTE Tutoring	0	0.0	0	0.0	0	0.0	0
	All Others	19	63.3	5	16.7	6	20.0	30

CTE Tutoring Combined Success Rates by Ethnicity

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Asian	CTE Tutoring	43	97.7	1	2.3	0	0.0	44
	All Others	164	76.6	15	7.0	35	16.4	214
Black non-Hispanic	CTE Tutoring	15	53.6	8	28.6	5	17.9	28
	All Others	116	56.6	46	22.4	43	21.0	205
Hispanic	CTE Tutoring	98	85.2	11	9.6	6	5.2	115
	All Others	556	65.0	136	15.9	164	19.2	856
Two or More	CTE Tutoring	44	80.0	5	9.1	6	10.9	55
	All Others	176	68.8	27	10.5	53	20.7	256
White non-Hispanic	CTE Tutoring	271	76.1	49	13.8	36	10.1	356
	All Others	1,023	73.9	156	11.3	206	14.9	1,385
Not Reported/Other	CTE Tutoring	44	88.0	3	6.0	3	6.0	50
	All Others	109	76.8	15	10.6	18	12.7	142

CTE Tutoring Combined Success Rates by Disability Status

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Disability	CTE Tutoring	53	82.8	7	10.9	4	6.3	64
	All Others	190	72.0	41	15.5	33	12.5	264
No Disability	CTE Tutoring	462	79.1	70	12.0	52	8.9	584
	All Others	1,954	69.9	354	12.7	486	17.4	2,794

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
3 of 20

Cuyamaca College
CTE Tutoring: Computer-Aided Drafting and Design (CADD)
Fall 2012 - Spring 2013

Summary of Findings

- Overall, CADD students that used CTE tutoring services had significantly higher course retention rates than students in these courses that did not use CTE tutoring services ($\chi^2 = 4.7$, $p < .05$), whereas course success rates were higher but the difference did not reach statistical significance ($\chi^2 = 3.5$, $p > .05$).

Computer-Aided Drafting and Design (CADD)
Fall 2012 - Spring 2013
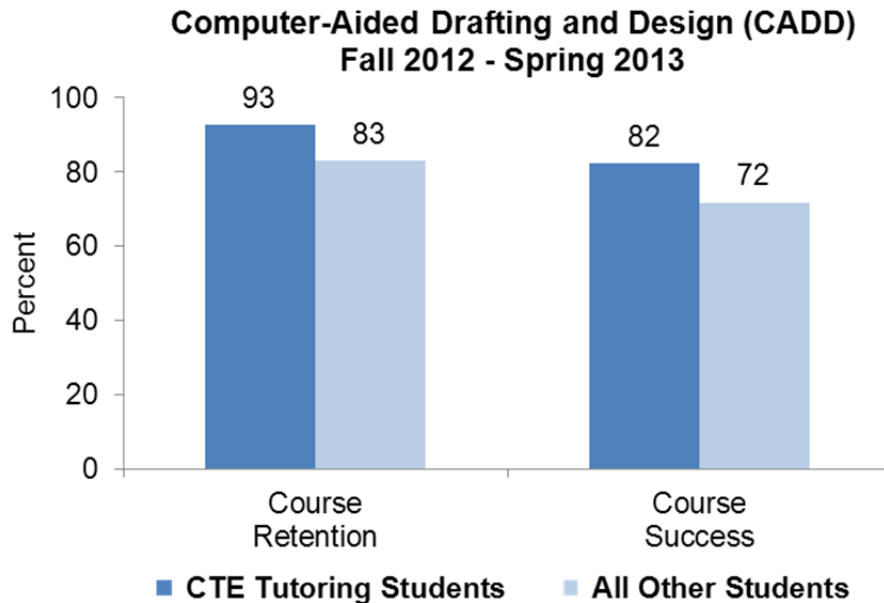
Retention Rates: By Term and Course

Computer-Aided Drafting and Design (CADD) Combined Retention Rates by Term

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Fall 2012	CTE Tutoring	42	93.3	3	6.7	45
	All Others	72	83.7	14	16.3	86
Spring 2013	CTE Tutoring	46	92.0	4	8.0	50
	All Others	60	82.2	13	17.8	73
Overall	**CTE Tutoring**	**88**	**92.6**	**7**	**7.4**	**95**
	All Others	**132**	**83.0**	**27**	**17.0**	**159**

Computer-Aided Drafting and Design (CADD) Retention Rates by Course

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CADD 115	CTE Tutoring	25	86.2	4	13.8	29
	All Others	56	78.9	15	21.1	71
CADD 120	CTE Tutoring	19	100.0	0	0.0	19
	All Others	22	88.0	3	12.0	25
CADD 125	CTE Tutoring	10	100.0	0	0.0	10
	All Others	10	83.3	2	16.7	12

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
4 of 20

Computer-Aided Drafting and Design (CADD) Retention Rates by Course (continued)

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CADD 129	CTE Tutoring	13	92.9	1	7.1	14
	All Others	7	87.5	1	12.5	8
CADD 131	CTE Tutoring	9	100.0	0	0.0	9
	All Others	18	94.7	1	5.3	19
CADD 132	CTE Tutoring	11	84.6	2	15.4	13
	All Others	14	77.8	4	22.2	18
CADD 200	CTE Tutoring	1	100.0	0	0.0	1
	All Others	5	83.3	1	16.7	6

Note. Course-level data should be interpreted with caution due to small sample size and low cell counts.

Success Rates: By Term and Course

Computer-Aided Drafting and Design (CADD) Combined Success Rates by Term

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Fall 2012	CTE Tutoring	38	84.4	4	8.9	3	6.7	45
	All Others	58	67.4	14	16.3	14	16.3	86
Spring 2013	CTE Tutoring	40	80.0	6	12.0	4	8.0	50
	All Others	56	76.7	4	5.5	13	17.8	73
Overall	**CTE Tutoring**	**78**	**82.1**	**10**	**10.5**	**7**	**7.4**	**95**
	All Others	**114**	**71.7**	**18**	**11.3**	**27**	**17.0**	**159**

Computer-Aided Drafting and Design (CADD) Success Rates by Course

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
CADD 115	CTE Tutoring	22	75.9	3	10.3	4	13.8	29
	All Others	47	66.2	9	12.7	15	21.1	71
CADD 120	CTE Tutoring	18	94.7	1	5.3	0	0.0	19
	All Others	19	76.0	3	12.0	3	12.0	25
CADD 125	CTE Tutoring	9	90.0	1	10.0	0	0.0	10
	All Others	7	58.3	3	25.0	2	16.7	12
CADD 129	CTE Tutoring	9	64.3	4	28.6	1	7.1	14
	All Others	7	87.5	0	0.0	1	12.5	8
CADD 131	CTE Tutoring	8	88.9	1	11.1	0	0.0	9
	All Others	17	89.5	1	5.3	1	5.3	19
CADD 132	CTE Tutoring	11	84.6	0	0.0	2	15.4	13
	All Others	12	66.7	2	11.1	4	22.2	18
CADD 200	CTE Tutoring	1	100.0	0	0.0	0	0.0	1
	All Others	5	83.3	0	0.0	1	16.7	6

Note. Course-level data should be interpreted with caution due to small sample size and low cell counts.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
5 of 20

Summary of Findings

- Overall, CD students that used CTE tutoring services had significantly higher course retention rates (χ^2 = 15.4, p < .001) and course success rates (χ^2 = 20.1, p < .001) than students in these courses that did not use CTE tutoring services.

Child Development (CD)
Fall 2012 - Spring 2013
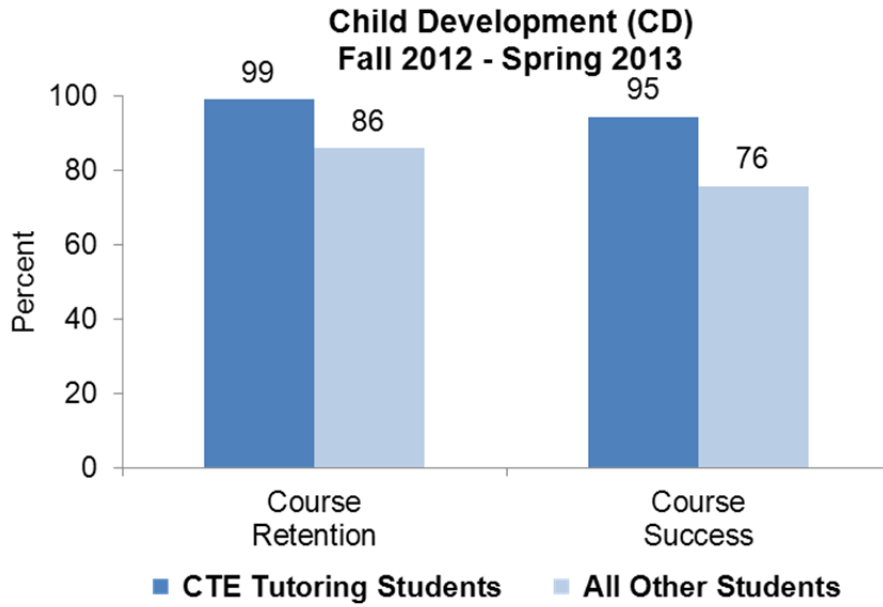
Retention Rates: By Term and Course

Child Development (CD) Combined Retention Rates by Term

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Fall 2012	CTE Tutoring	38	100.0	0	0.0	38
	All Others	489	87.2	72	12.8	561
Spring 2013	CTE Tutoring	71	98.6	1	1.4	72
	All Others	434	84.6	79	15.4	513
Overall	**CTE Tutoring**	**109**	**99.1**	**1**	**0.9**	**110**
	All Others	**923**	**85.9**	**151**	**14.1**	**1,074**

Child Development (CD) Retention Rates by Course

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CD 106	CTE Tutoring	10	100.0	0	0.0	10
	All Others	36	90.0	4	10.0	40
CD 123	CTE Tutoring	8	100.0	0	0.0	8
	All Others	64	97.0	2	3.0	66
CD 125	CTE Tutoring	13	100.0	0	0.0	13
	All Others	249	83.8	48	16.2	297

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
6 of 20

Child Development (CD) Retention Rates by Course (continued)

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CD 126	CTE Tutoring	6	85.7	1	14.3	7
	All Others	47	88.7	6	11.3	53
CD 127	CTE Tutoring	10	100.0	0	0.0	10
	All Others	48	100.0	0	0.0	48
CD 128	CTE Tutoring	7	100.0	0	0.0	7
	All Others	53	94.6	3	5.4	56
CD 129	CTE Tutoring	9	100.0	0	0.0	9
	All Others	60	98.4	1	1.6	61
CD 131	CTE Tutoring	13	100.0	0	0.0	13
	All Others	119	80.4	29	19.6	148
CD 132	CTE Tutoring	6	100.0	0	0.0	6
	All Others	14	100.0	0	0.0	14
CD 133	CTE Tutoring	6	100.0	0	0.0	6
	All Others	14	100.0	0	0.0	14
CD 141	CTE Tutoring	10	100.0	0	0.0	10
	All Others	45	91.8	4	8.2	49
Other CD Courses	CTE Tutoring	11	100.0	0	0.0	11
	All Others	174	76.3	54	23.7	228

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other CD courses include CD 116, CD 124, CD 130, CD 134, and CD 153.

Success Rates: By Term and Course

Child Development (CD) Combined Success Rates by Term

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Fall 2012	CTE Tutoring	38	100.0	0	0.0	0	0.0	38
	All Others	432	77.0	57	10.2	72	12.8	561
Spring 2013	CTE Tutoring	66	91.7	5	6.9	1	1.4	72
	All Others	382	74.5	52	10.1	79	15.4	513
Overall	**CTE Tutoring**	**104**	**94.5**	**5**	**4.5**	**1**	**0.9**	**110**
	All Others	**814**	**75.8**	**109**	**10.1**	**151**	**14.1**	**1,074**

Child Development (CD) Success Rates by Course

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
CD 106	CTE Tutoring	9	90.0	1	10.0	0	0.0	10
	All Others	32	80.0	4	10.0	4	10.0	40
CD 123	CTE Tutoring	7	87.5	1	12.5	0	0.0	8
	All Others	57	86.4	7	10.6	2	3.0	66
CD 125	CTE Tutoring	12	92.3	1	7.7	0	0.0	13
	All Others	212	71.4	37	12.5	48	16.2	297
CD 126	CTE Tutoring	6	85.7	0	0.0	1	14.3	7
	All Others	42	79.2	5	9.4	6	11.3	53

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
7 of 20

Child Development (CD) Success Rates by Course (continued)

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
CD 127	CTE Tutoring	10	100.0	0	0.0	0	0.0	10
	All Others	38	79.2	10	20.8	0	0.0	48
CD 128	CTE Tutoring	7	100.0	0	0.0	0	0.0	7
	All Others	47	83.9	6	10.7	3	5.4	56
CD 129	CTE Tutoring	9	100.0	0	0.0	0	0.0	9
	All Others	56	91.8	4	6.6	1	1.6	61
CD 131	CTE Tutoring	13	100.0	0	0.0	0	0.0	13
	All Others	110	74.3	9	6.1	29	19.6	148
CD 132	CTE Tutoring	5	83.3	1	16.7	0	0.0	6
	All Others	14	100.0	0	0.0	0	0.0	14
CD 133	CTE Tutoring	5	83.3	1	16.7	0	0.0	6
	All Others	14	100.0	0	0.0	0	0.0	14
CD 141	CTE Tutoring	10	100.0	0	0.0	0	0.0	10
	All Others	40	81.6	5	10.2	4	8.2	49
Other CD Courses	CTE Tutoring	11	100.0	0	0.0	0	0.0	11
	All Others	152	66.7	22	9.6	54	23.7	228

*Note 1.* Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other CD courses include CD 116, CD 124, CD 130, CD 134, and CD 153.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
8 of 20

CTE Tutoring: Computer Information Science (CIS)
Fall 2012 - Spring 2013

Summary of Findings

- Overall, CIS students that used CTE tutoring services had significantly higher course retention rates (χ^2 = 4.9, p < .05) and course success rates (χ^2 = 9.9, p < .01) than students in these courses that did not use CTE tutoring services.

Computer Information Science (CIS)
Fall 2012 - Spring 2013
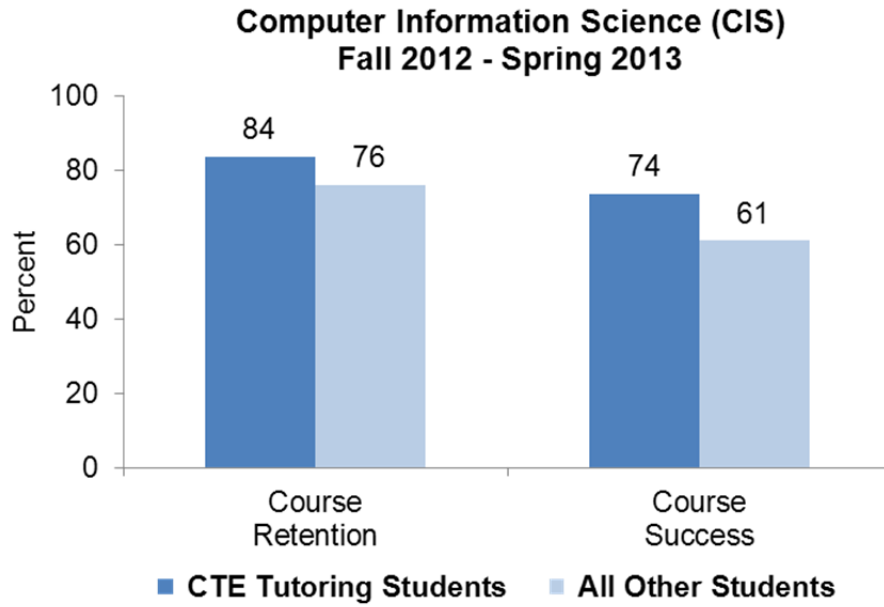
Retention Rates: By Term and Course

Computer Information Science (CIS) Combined Retention Rates by Term

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Fall 2012	CTE Tutoring	71	83.5	14	16.5	85
	All Others	341	76.5	105	23.5	446
Spring 2013	CTE Tutoring	78	83.9	15	16.1	93
	All Others	360	75.8	115	24.2	475
Overall	**CTE Tutoring**	**149**	**83.7**	**29**	**16.3**	**178**
	All Others	**701**	**76.1**	**220**	**23.9**	**921**

Computer Information Science (CIS) Retention Rates by Course

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CIS 110	CTE Tutoring	29	96.7	1	3.3	30
	All Others	195	71.4	78	28.6	273
CIS 120	CTE Tutoring	18	81.8	4	18.2	22
	All Others	115	77.2	34	22.8	149
CIS 121	CTE Tutoring	12	80.0	3	20.0	15
	All Others	30	81.1	7	18.9	37

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
9 of 20

Computer Information Science (CIS) Retention Rates by Course (continued)

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CIS 125	CTE Tutoring	7	77.8	2	22.2	9
	All Others	41	83.7	8	16.3	49
CIS 140	CTE Tutoring	11	68.8	5	31.3	16
	All Others	26	70.3	11	29.7	37
CIS 161	CTE Tutoring	6	85.7	1	14.3	7
	All Others	28	68.3	13	31.7	41
CIS 190	CTE Tutoring	6	60.0	4	40.0	10
	All Others	31	75.6	10	24.4	41
CIS 191	CTE Tutoring	7	77.8	2	22.2	9
	All Others	32	82.1	7	17.9	39
CIS 211	CTE Tutoring	4	57.1	3	42.9	7
	All Others	22	73.3	8	26.7	30
CIS 212	CTE Tutoring	13	100.0	0	0.0	13
	All Others	87	81.3	20	18.7	107
CIS 262	CTE Tutoring	8	100.0	0	0.0	8
	All Others	10	76.9	3	23.1	13
CIS 263	CTE Tutoring	10	83.3	2	16.7	12
	All Others	25	78.1	7	21.9	32
CIS 290	CTE Tutoring	10	100.0	0	0.0	10
	All Others	17	85.0	3	15.0	20
Other CIS Courses	CTE Tutoring	8	80.0	2	20.0	10
	All Others	42	79.2	11	20.8	53

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other CIS courses include CIS 213, CIS 215, and CIS 267.

Success Rates: By Term and Course

Computer Information Science (CIS) Combined Success Rates by Term

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Fall 2012	CTE Tutoring	66	77.6	5	5.9	14	16.5	85
	All Others	276	61.9	65	14.6	105	23.5	446
Spring 2013	CTE Tutoring	65	69.9	13	14.0	15	16.1	93
	All Others	287	60.4	73	15.4	115	24.2	475
Overall	**CTE Tutoring**	**131**	**73.6**	**18**	**10.1**	**29**	**16.3**	**178**
	All Others	**563**	**61.1**	**138**	**15.0**	**220**	**23.9**	**921**

Computer Information Science (CIS) Success Rates by Course

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
CIS 110	CTE Tutoring	27	90.0	2	6.7	1	3.3	30
	All Others	163	59.7	32	11.7	78	28.6	273
CIS 120	CTE Tutoring	15	68.2	3	13.6	4	18.2	22
	All Others	84	56.4	31	20.8	34	22.8	149

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
10 of 20

Computer Information Science (CIS) Success Rates by Course (continued)

|		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
CIS 121	CTE Tutoring	11	73.3	1	6.7	3	20.0	15
	All Others	26	70.3	4	10.8	7	18.9	37
CIS 125	CTE Tutoring	6	66.7	1	11.1	2	22.2	9
	All Others	30	61.2	11	22.4	8	16.3	49
CIS 140	CTE Tutoring	6	37.5	5	31.3	5	31.3	16
	All Others	14	37.8	12	32.4	11	29.7	37
CIS 161	CTE Tutoring	5	71.4	1	14.3	1	14.3	7
	All Others	27	65.9	1	2.4	13	31.7	41
CIS 190	CTE Tutoring	5	50.0	1	10.0	4	40.0	10
	All Others	25	61.0	6	14.6	10	24.4	41
CIS 191	CTE Tutoring	6	66.7	1	11.1	2	22.2	9
	All Others	28	71.8	4	10.3	7	17.9	39
CIS 211	CTE Tutoring	4	57.1	0	0.0	3	42.9	7
	All Others	18	60.0	4	13.3	8	26.7	30
CIS 212	CTE Tutoring	12	92.3	1	7.7	0	0.0	13
	All Others	66	61.7	21	19.6	20	18.7	107
CIS 262	CTE Tutoring	8	100.0	0	0.0	0	0.0	8
	All Others	10	76.9	0	0.0	3	23.1	13
CIS 263	CTE Tutoring	10	83.3	0	0.0	2	16.7	12
	All Others	24	75.0	1	3.1	7	21.9	32
CIS 290	CTE Tutoring	10	100.0	0	0.0	0	0.0	10
	All Others	13	65.0	4	20.0	3	15.0	20
Other CIS Courses	CTE Tutoring	6	60.0	2	20.0	2	20.0	10
	All Others	35	66.0	7	13.2	11	20.8	53

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other CIS courses include CIS 213, CIS 215, and CIS 267.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
11 of 20

CTE Tutoring: CISCO Networking Academy (CISCO)
Fall 2012 - Spring 2013

Summary of Findings

- Overall, CISCO students that used CTE tutoring services had significantly higher course retention rates (χ^2 = 24.9, p < .001) and course success rates (χ^2 = 18.9, p < .001) than students in these courses that did not use CTE tutoring services.
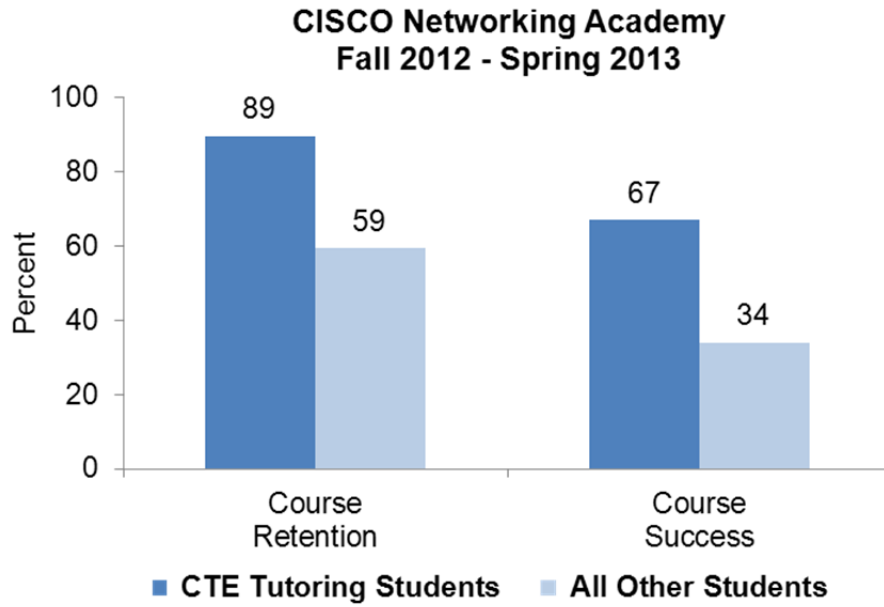
Retention Rates: By Term and Course

CISCO Networking Academy (CISCO) Combined Retention Rates by Term

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Fall 2012	CTE Tutoring	56	93.3	4	6.7	60
	All Others	18	60.0	12	40.0	30
Spring 2013	CTE Tutoring	79	86.8	12	13.2	91
	All Others	17	58.6	12	41.4	29
Overall	**CTE Tutoring**	**135**	**89.4**	**16**	**10.6**	**151**
	All Others	**35**	**59.3**	**24**	**40.7**	**59**

CISCO Networking Academy (CISCO) Retention Rates by Course

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CISCO 201	CTE Tutoring	41	85.4	7	14.6	48
	All Others	21	55.3	17	44.7	38
CISCO 202	CTE Tutoring	21	91.3	2	8.7	23
	All Others	3	42.9	4	57.1	7
CISCO 203	CTE Tutoring	31	96.9	1	3.1	32
	All Others	3	100.0	0	0.0	3

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
12 of 20

CISCO Networking Academy (CISCO) Retention Rates by Course (continued)

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CISCO 204	CTE Tutoring	15	88.2	2	11.8	17
	All Others	3	50.0	3	50.0	6
Other CISCO Courses	CTE Tutoring	27	87.1	4	12.9	31
	All Others	5	100.0	0	0.0	5

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other CISCO courses include CIS 205, CIS 206, CIS 207, and CIS 209.

Success Rates: By Term and Course

CISCO Networking Academy (CISCO) Combined Success Rates by Term

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Fall 2012	CTE Tutoring	40	66.7	16	26.7	4	6.7	60
	All Others	11	36.7	7	23.3	12	40.0	30
Spring 2013	CTE Tutoring	61	67.0	18	19.8	12	13.2	91
	All Others	9	31.0	8	27.6	12	41.4	29
Overall	**CTE Tutoring**	**101**	**66.9**	**34**	**22.5**	**16**	**10.6**	**151**
	All Others	**20**	**33.9**	**15**	**25.4**	**24**	**40.7**	**59**

CISCO Networking Academy (CISCO) Success Rates by Course

|		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
CISCO 201	CTE Tutoring	23	47.9	18	37.5	7	14.6	48
	All Others	8	21.1	13	34.2	17	44.7	38
CISCO 202	CTE Tutoring	18	78.3	3	13.0	2	8.7	23
	All Others	3	42.9	0	0.0	4	57.1	7
CISCO 203	CTE Tutoring	23	71.9	8	25.0	1	3.1	32
	All Others	3	100.0	0	0.0	0	0.0	3
CISCO 204	CTE Tutoring	13	76.5	2	11.8	2	11.8	17
	All Others	2	33.3	1	16.7	3	50.0	6
Other CISCO Courses	CTE Tutoring	24	77.4	3	9.7	4	12.9	31
	All Others	4	80.0	1	20.0	0	0.0	5

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other CISCO courses include CIS 205, CIS 206, CIS 207, and CIS 209.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
13 of 20

Summary of Findings

- Overall, rates of course retention and rates of course success for CS students that used CTE tutoring services were not significantly different from CS students that did not use CTE tutoring services ($\chi^2 = 0.0$, $p > .05$ and $\chi^2 = 0.7$, $p > .05$, respectively).

Computer Science (CS)
Fall 2012 - Spring 2013
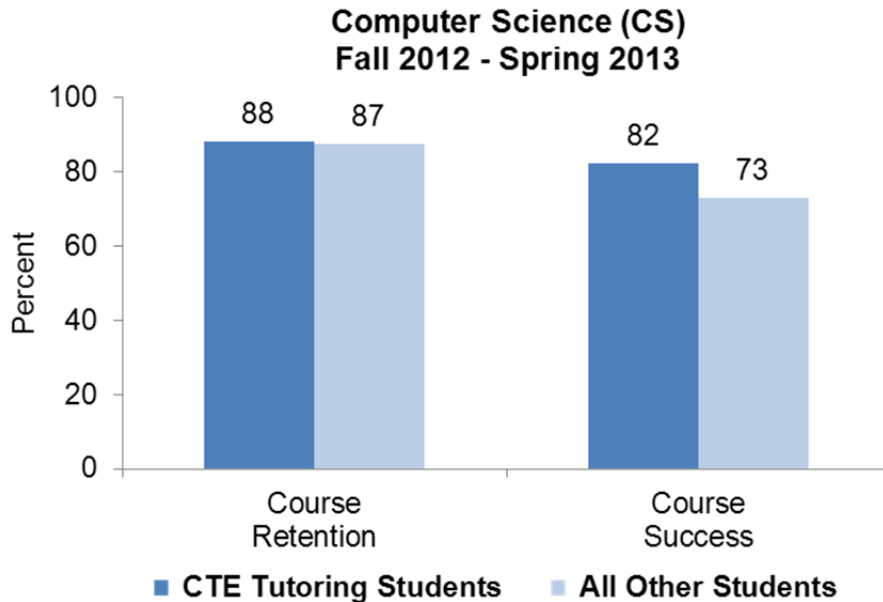
Retention Rates: By Term and Course

Computer Science (CS) Combined Retention Rates by Term

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Fall 2012	CTE Tutoring	9	100.0	0	0.0	9
	All Others	48	85.7	8	14.3	56
Spring 2013	CTE Tutoring	6	75.0	2	25.0	8
	All Others	49	89.1	6	10.9	55
Overall	**CTE Tutoring**	**15**	**88.2**	**2**	**11.8**	**17**
	All Others	**97**	**87.4**	**14**	**12.6**	**111**

Computer Science (CS) Retention Rates by Course

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
CS 119	CTE Tutoring	9	81.8	2	18.2	11
	All Others	46	86.8	7	13.2	53
Other CS Courses	CTE Tutoring	6	100.0	0	0.0	6
	All Others	51	87.9	7	12.1	58

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other CS courses include CS 181 and CS 182.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
14 of 20

Success Rates: By Term and Course

Computer Science (CS) Combined Success Rates by Term

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Fall 2012	CTE Tutoring	8	88.9	1	11.1	0	0.0	9
	All Others	43	76.8	5	8.9	8	14.3	56
Spring 2013	CTE Tutoring	6	75.0	0	0.0	2	25.0	8
	All Others	38	69.1	11	20.0	6	10.9	55
Overall	**CTE Tutoring**	**14**	**82.4**	**1**	**5.9**	**2**	**11.8**	**17**
	All Others	**81**	**73.0**	**16**	**14.4**	**14**	**12.6**	**111**

Computer Science (CS) Success Rates by Course

|		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
CS 119	CTE Tutoring	8	72.7	1	9.1	2	18.2	11
	All Others	37	69.8	9	17.0	7	13.2	53
Other CS Courses	CTE Tutoring	6	100.0	0	0.0	0	0.0	6
	All Others	44	75.9	7	12.1	7	12.1	58

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other CS courses include CS 181 and CS 182.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
15 of 20

CTE Tutoring: Graphic Design (GD)
Fall 2012 - Spring 2013

Summary of Findings

- Overall, GD students that used CTE tutoring services had significantly higher course retention rates (χ^2 = 8.5, p < .01) and course success rates (χ^2 = 9.5, p < .01) than students in these courses that did not use CTE tutoring services.

Graphic Design (GD) Fall 2012 - Spring 2013
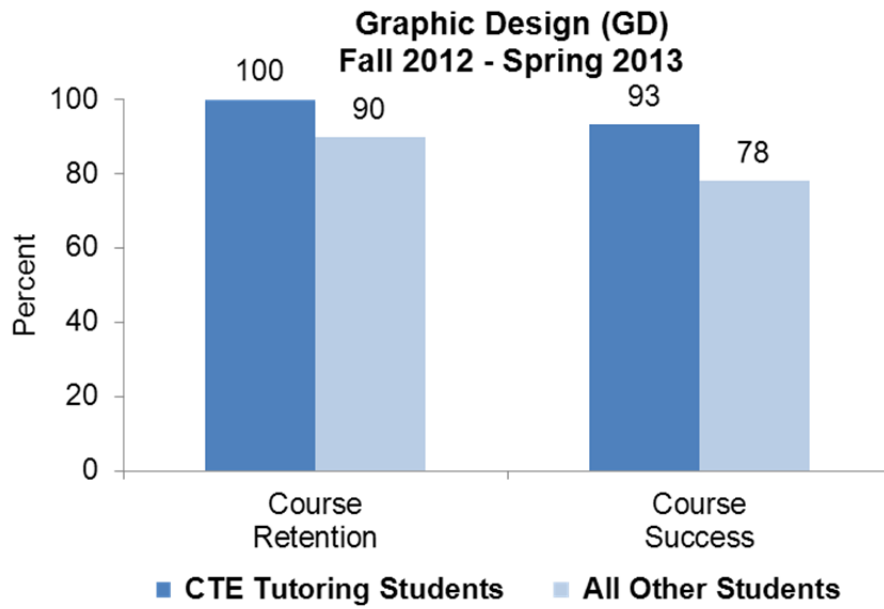
Retention Rates: By Term and Course

Graphic Design (GD) Combined Retention Rates by Term

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Fall 2012	CTE Tutoring	33	100.0	0	0.0	33
	All Others	178	94.7	10	5.3	188
Spring 2013	CTE Tutoring	43	100.0	0	0.0	43
	All Others	189	85.5	32	14.5	221
Overall	CTE Tutoring	76	100.0	0	0.0	76
	All Others	367	89.7	42	10.3	409

Graphic Design (GD) Retention Rates by Course

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
GD 105	CTE Tutoring	15	100.0	0	0.0	15
	All Others	114	87.7	16	12.3	130
GD 110	CTE Tutoring	7	100.0	0	0.0	7
	All Others	34	87.2	5	12.8	39
GD 125	CTE Tutoring	8	100.0	0	0.0	8
	All Others	32	86.5	5	13.5	37

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
16 of 20

Graphic Design (GD) Retention Rates by Course (continued)

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
GD 126	CTE Tutoring	6	*100.0*	0	*0.0*	6
	All Others	33	*94.3*	2	*5.7*	35
GD 129	CTE Tutoring	5	*100.0*	0	*0.0*	5
	All Others	21	*95.5*	1	*4.5*	22
GD 130	CTE Tutoring	5	*100.0*	0	*0.0*	5
	All Others	25	*100.0*	0	*0.0*	25
GD 210	CTE Tutoring	7	*100.0*	0	*0.0*	7
	All Others	17	*94.4*	1	*5.6*	18
GD 222	CTE Tutoring	9	*100.0*	0	*0.0*	9
	All Others	15	*93.8*	1	*6.3*	16
Other GD Courses	CTE Tutoring	14	*100.0*	0	*0.0*	14
	All Others	76	*87.4*	11	*12.6*	87

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other GD courses include GD 199, GD 211, GD 217, GD 225, and GD 230.

Success Rates: By Term and Course

Graphic Design (GD) Combined Success Rates by Term

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Fall 2012	CTE Tutoring	32	*97.0*	1	*3.0*	0	*0.0*	33
	All Others	155	*82.4*	23	*12.2*	10	*5.3*	188
Spring 2013	CTE Tutoring	39	*90.7*	4	*9.3*	0	*0.0*	43
	All Others	165	*74.7*	24	*10.9*	32	*14.5*	221
Overall	**CTE Tutoring**	**71**	***93.4***	**5**	***6.6***	**0**	***0.0***	**76**
	All Others	**320**	***78.2***	**47**	***11.5***	**42**	***10.3***	**409**

Graphic Design (GD) Success Rates by Course

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
GD 105	CTE Tutoring	14	*93.3*	1	*6.7*	0	*0.0*	15
	All Others	93	*71.5*	21	*16.2*	16	*12.3*	130
GD 110	CTE Tutoring	6	*85.7*	1	*14.3*	0	*0.0*	7
	All Others	31	*79.5*	3	*7.7*	5	*12.8*	39
GD 125	CTE Tutoring	8	*100.0*	0	*0.0*	0	*0.0*	8
	All Others	27	*73.0*	5	*13.5*	5	*13.5*	37
GD 126	CTE Tutoring	5	*83.3*	1	*16.7*	0	*0.0*	6
	All Others	29	*82.9*	4	*11.4*	2	*5.7*	35
GD 129	CTE Tutoring	5	*100.0*	0	*0.0*	0	*0.0*	5
	All Others	17	*77.3*	4	*18.2*	1	*4.5*	22
GD 130	CTE Tutoring	5	*100.0*	0	*0.0*	0	*0.0*	5
	All Others	24	*96.0*	1	*4.0*	0	*0.0*	25

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
17 of 20

Graphic Design (GD) Success Rates by Course (continued)

|		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
GD 210	CTE Tutoring	7	100.0	0	0.0	0	0.0	7
	All Others	15	83.3	2	11.1	1	5.6	18
GD 222	CTE Tutoring	7	77.8	2	22.2	0	0.0	9
	All Others	13	81.3	2	12.5	1	6.3	16
Other GD Courses	CTE Tutoring	14	100.0	0	0.0	0	0.0	14
	All Others	71	81.6	5	5.7	11	12.6	87

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other GD courses include GD 199, GD 211, GD 217, GD 225, and GD 230.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
18 of 20

CTE Tutoring: Water/Wastewater Treatment Resource (WWTR)
Fall 2012 - Spring 2013

Summary of Findings

- Overall, rates of course retention and rates of course success for WWTR students that used CTE tutoring services were not significantly different from WWTR students that did not use CTE tutoring services ($\chi^2 = 1.1$, $p > .05$ and $\chi^2 = 0.2$, $p > .05$, respectively).

Water/Wastewater Treatment Resource (WWTR)
Fall 2012 - Spring 2013
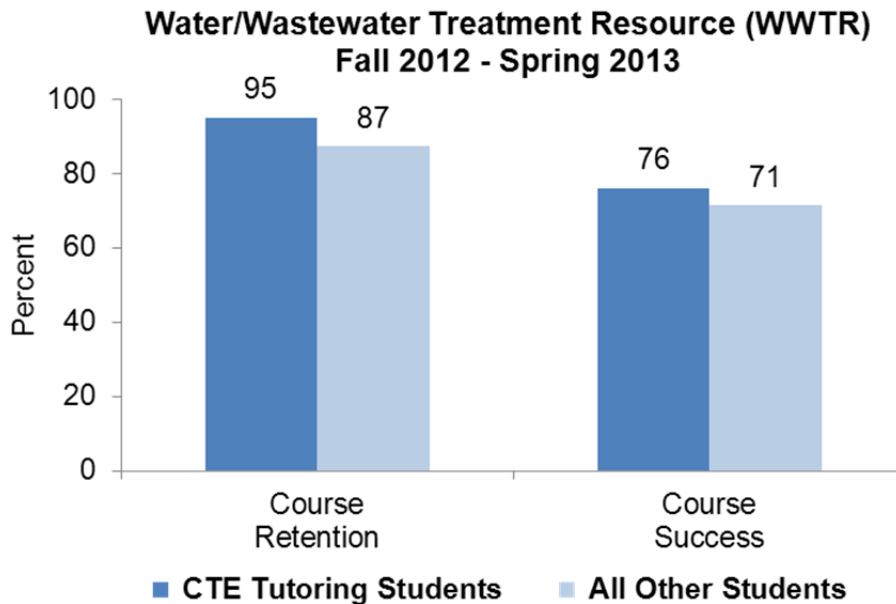
Retention Rates: By Term and Course

Water/Wastewater Treatment Resource (WWTR) Combined Retention Rates by Term

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
Fall 2012	CTE Tutoring	3	75.0	1	25.0	4
	All Others	141	83.4	28	16.6	169
Spring 2013	CTE Tutoring	17	100.0	0	0.0	17
	All Others	143	91.7	13	8.3	156
Overall	**CTE Tutoring**	**20**	**95.2**	**1**	**4.8**	**21**
	All Others	**284**	**87.4**	**41**	**12.6**	**325**

Water/Wastewater Treatment Resource (WWTR) Retention Rates by Course

		Retained		Withdrew		Total Enrollments
		#	%	#	%	
WWTR 102	CTE Tutoring	5	83.3	1	16.7	6
	All Others	75	84.3	14	15.7	89
Other WWTR Courses	CTE Tutoring	15	100.0	0	0.0	15
	All Others	209	88.6	27	11.4	236

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other WWTR courses include WWTR 104, WWTR 112, WWTR 114, WWTR 120, and WWTR 130.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
19 of 20

Success Rates: By Term and Course

Water/Wastewater Treatment Resource (WWTR) Combined Success Rates by Term

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
Fall 2012	CTE Tutoring	2	50.0	1	25.0	1	25.0	4
	All Others	125	74.0	16	9.5	28	16.6	169
Spring 2013	CTE Tutoring	14	82.4	3	17.6	0	0.0	17
	All Others	107	68.6	36	23.1	13	8.3	156
Overall	**CTE Tutoring**	**16**	**76.2**	**4**	**19.0**	**1**	**4.8**	**21**
	All Others	**232**	**71.4**	**52**	**16.0**	**41**	**12.6**	**325**

Water/Wastewater Treatment Resource (WWTR) Success Rates by Course

		Successful		Not Successful		Withdrew		Total Enrollments
		#	%	#	%	#	%	
WWTR 102	CTE Tutoring	4	66.7	1	16.7	1	16.7	6
	All Others	52	58.4	23	25.8	14	15.7	89
Other WWTR Courses	CTE Tutoring	12	80.0	3	20.0	0	0.0	15
	All Others	180	76.3	29	12.3	27	11.4	236

Note 1. Course-level data should be interpreted with caution due to small sample size and low cell counts.
Note 2. Other WWTR courses include WWTR 104, WWTR 112, WWTR 114, WWTR 120, and WWTR 130.

CTE Tutoring Report
October 21, 2013
P:\Student Services Program Review\2012-13\CTE Tutoring (CC) - 2013

Office of Research, Planning, and Institutional Effectiveness
Grossmont-Cuyamaca Community College District
20 of 20