



Rancho Santiago Community College District
Validity of Chemistry Test for Chemistry 219 Placement
 Compiled by RSCCD Research Department, August 2013

Background

Enrollment into Chemistry 219 requires successful completion (C grade or better) of Math 080 or Math 081 **and** the successful completion of Chemistry 209 **OR** a passing score (24 points or higher) on the chemistry placement test. Since the Spring 1998 semester, 426 students have both taken the test and received grades in Chemistry 219; transcripts of those students were analyzed for this report.

Summary of Findings

- Of the 426 students who took the test, 244 scored at or above the Chemistry 219 cut-score of 24 points.
 - 82% of those students were successful (A,B,C,P) in the course.
- The students who scored below the cut-score (n=131) succeeded in the course at a rate of 72%.
- Course Grades and Chemistry Placement Test Grades are highly correlated.

Rancho Santiago Community College District						
		Chemistry 219 Course Success			Total Count	Correlation test score vs. grade
		A,B,C,P	D,F,NP	W,I		
below cut	Count	131	11	40	182	0.341**
	% within cut	72%	6%	22%		
above cut	Count	199	17	28	244	
	% within cut	82%	7%	11%		
Total	Count	330	28	68	426	
	% within cut	77%	7%	16%		
*correlation is significant at the .01 level						