



Santa Ana College Progress through Math Course Sequence (Fall 2003 Cohort)

Prepared by the RSCCD Research Department, June 2006

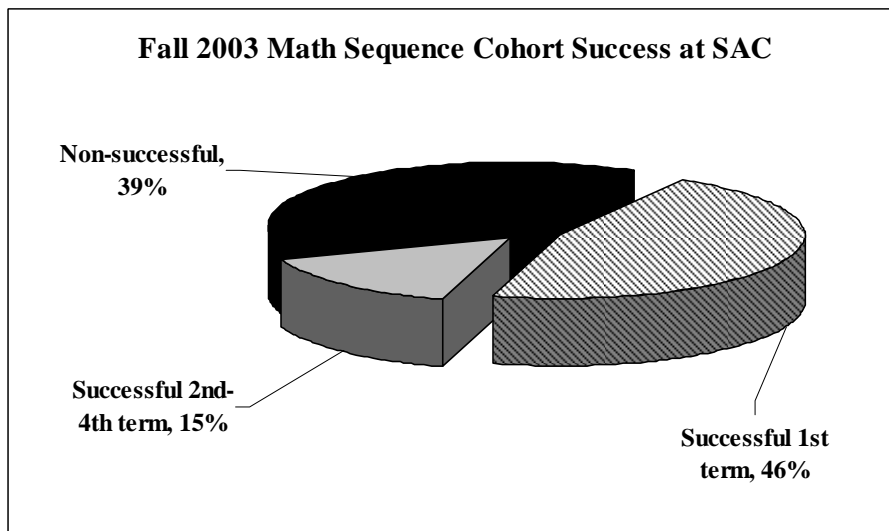
Background

Transcripts of students enrolled in Math courses at Santa Ana College in the fall 2003 semester were analyzed to track the progress they made through the sequence courses. Course success (A,B,C,CR) for the current semester, as well as in coursework enrolled in through Fall 2005 (**not necessarily three consecutive semesters**) was studied for the following courses:

- Math N05, N06, N48, 060, 070, 080, 105, 140, 145, 150, 160, 170, 180, 185, 219, 280, 290.

Summary of Findings

- Overall, 46% of Fall 2003 cohort students succeeded in their first attempt in that course.
 - Success rates in several courses varied sharply: Math 105 and Math 290 (each at 79%) and Math 185 (28%).
- Overall, an additional 15% succeeded in their 2nd-4th attempts (a range of 8%-30%).
- Generally, one-fifth (20%) of the cohort's successful completers were also successful in coursework one level higher within 4 semesters; 7% went on to complete Math sequence coursework two levels higher.



Fall 2003 Course at SAC	Total # Enrolled	Summary of Math Sequence Course Completions at RSCCD within Four Semesters																		% Success in Fall 2003 Course		% Success at Higher Levels within 4 Semesters	
		N05	N06	N48	060	070	080	105	140	145	150	160	170	180	185	219	280	290	295	1st Attempt	2nd-4th Attempt	1 level higher	2 levels higher
Math N05	240	189	14	30	16		4													49%	30%	13%	7%
Math N06	357	9	174	96	38		11		1											40%	9%	8%	4%
Math N48	581		2	346	182	3	58	7	4			1							2	49%	11%	31%	10%
Math 060	875		2	6	524	7	224	53	23	4	2	11	5						28	49%	11%	26%	14%
Math 070	35					25	4		1			14	5							63%	9%	43%	0%
Math 080	896			1	15	15	521	154	78	7	17	37	16	3					51	39%	20%	36%	2%
Math 105	205						1	179	7	1		2	1	1	1	17				79%	8%	0%	0%
Math 140	241					1	1	13	149	1	30	9	3	3	1	18	1			49%	12%	12%	1%
Math 145	43							1	3	19	3								4	40%	5%	7%	0%
Math 150	150					1		1	3	1	98	3	4	6	3	7	1			51%	15%	3%	4%
Math 160	203				1		1	3	4		3	123	58	22	7	17				41%	19%	1%	29%
Math 170	174					1	1	1	1	3	3	1	102	45	22	12	4	1		48%	11%	26%	n/a
Math 180	188							1	1		5		1	110	52	17	13	2	2	36%	23%	n/a	n/a
Math 185	78								1						41	4	24	7	6	28%	24%	n/a	n/a
Math 219	169					1		12	2	1	1	3	2	2	1	115	1			50%	18%	1%	1%
Math 280	32								1		1					1	19	7	5	34%	25%	n/a	n/a
Math 290	19															1	1	15	9	79%	0%	n/a	n/a
Total	4486	198	192	479	776	54	826	425	279	37	163	204	197	192	128	294	64	32	22	46%	15%	20%	7%

1 level higher: Math N05/N06 (N48), Math N48 (060), Math 060 (070/080), Math 080 (105/140/145/160/219), Math 105/140/145/160/219 (150), Math 150 (170), Math 170 (180)

2 levels higher: Math N05/N06 (060), Math N48 (070/080), Math 060 (105/140/145/160/219), Math 070/080 (150), Math 105/140/145/160/219 (170), Math 150 (180)

Fall 2003 SAC Cohort			Success in Math Sequence Courses in Subsequent Semesters										
			2nd Semester		3rd Semester		4th Semester						
Course	Total # Enrolled	# success	Course	# success	Course	# success	Course	# success					
N05	240	118	N05	48	N05	13	N05	8					
					N06	2	N06	1					
					N48	0	N06	2					
					N49	4	N48	1					
			N06	7	7	N05	1	N05	1				
						N06	2						
						N48	4	060	1				
			N48	18	18	N48	3	060	2				
						60	10	060	3				
								080	4				
N06	357	143	N05	6	N05	2	N05	1					
					N48	1							
			N06	24	24	N06	5	N06	1				
						N48	8	N48	2				
								N48	1				
			N48	68	68	N06	1	N48	1				
						N48	12	N48	4				
						60	25	060	5				
						80	1	060	4				
			060	1			080	10					
				140	1								
N48	581	282	N06	1	N48	0	N48	1					
			N48	54	54	N06	1						
						N48	6	N48	3				
						060	13	060	1				
								060	3				
			060	125	125	060	27	060	11				
								080	5				
								070	1	080	1		
						080	35	35			060	1	
											070	2	
		080							14				
		105							5				
		140	4										
				160	1								
				219	2								

Fall 2003 SAC Cohort			Success in Math Sequence Courses in Subsequent Semesters							
			2nd Semester		3rd Semester		4th Semester			
Course	Total # Enrolled	# success	Course	# success	Course	# success	Course	# success		
			080	0	060	1				
					080	1	105	1		
			105	1						
060	875	430	N05	0	080	1				
			N06	1	060	1				
			N48	4	N48	1				
			060	68	N06	0	N06	1		
					N48	1				
					060	4				
					070	1				
					080	3				
					060	1				
			080	14	080	4				
					105	3				
					140	1				
					219	2				
					070	3	080	2	160	1
					160	1	170	1		
			080	137	060	2				
					070	1	070	2		
							160	1		
					080	47	080	16		
							080	16		
							105	30		
							140	16		
							145	2		
					105	30	105	4		
							219	3		
							140	3		
					140	16	140	1		
							150	1		
160	2									
219	1									
145	2	145	1							
		150	1							
160	6	160	1							
		170	4							
		105	1							
219	15	145	1							
		160	1							
		219	1							
105	2									
140	1									
219	1	060	1	219	1					
070	35	22	070	3	160	0	160	2		

Fall 2003 SAC Cohort			Success in Math Sequence Courses in Subsequent Semesters									
			2nd Semester		3rd Semester		4th Semester					
Course	Total # Enrolled	# success	Course	# success	Course	# success	Course	# success				
			080	2	080	2						
					160	0	160	1				
			140	0	140	1						
			160	6	160	4	160	1				
					170	3	170	1				
080	896	346	060	11	060	2						
					080	3	080	3				
			070	11	070	1						
					160	2	160	3				
			080	122	080	122	N48	1				
							060	2				
							070	2				
							080	36	080	6		
									105	10		
									145	3		
									160	1		
							105	33	219	3		
									080	1		
									105	5		
									219	1		
							140	6	105	1		
			140	4								
			160	1								
			160	1								
			219	7	105	1						
					219	1						
					080	1						
					105	6						
			105	89	105	89	140	1				
							219	3	160	1		
									219	3		
							080	1				
							105	4				
			140	43	140	43	070	1				
							080	1				
							140	2				
							145	1				
							150	2				
							160	3				
							140	18	219	1		
			150	12	150	1						
170	2											

Fall 2003 SAC Cohort			Success in Math Sequence Courses in Subsequent Semesters					
			2nd Semester		3rd Semester		4th Semester	
Course	Total # Enrolled	# success	Course	# success	Course	# success	Course	# success
					219	3	219	1
			145	3	150	2		
					219	1		
			160	18	080	1	080	1
					105	1		
					140	1		
					160	3	160	1
							170	1
							170	4
			170	1				
			219	18	105	2	105	1
140	2							
160	1	170			1			
		105			1			
219	6	219			2			
105	205	162	105	14	105	3		
					219	1		
			140	4	080	1		
					140	1		
			145	1				
			160	1	160	1		
					170	1	180	1
			219	14	140	2		
185	1							
219	2							
140	241	119	070	0	070	1		
			080	1	140	1	150	1
			105	10	140	0	140	1
			140	19	105	3		
					140	5	140	3
							145	1
					150	2	150	1
					160	1	170	1
			219	1				
			150	20			150	3
					150	3	180	1
160	1	160			1			
160	3	219	1	219	1			
		140	0	140	1			
		160	3					

Fall 2003 SAC Cohort			Success in Math Sequence Courses in Subsequent Semesters							
			2nd Semester		3rd Semester		4th Semester			
Course	Total # Enrolled	# success	Course	# success	Course	# success	Course	# success		
					170	1	180	1		
					219	1	170	1		
					180	1	185	1	280	1
					219	11	219	3		
145	43	17	105	1						
			140	3	145	0	145	1		
			145	1						
			150	2	150	1				
			219	3	219	1				
150	150	76	070	1						
			105	1						
			140	3	150	1	160	1		
			145	1						
			150	14	150	5	150	2		
					219	1				
			160	1	160	1	170	1		
					170	1	180	1		
			170	2	180	1				
180	4	185	3	280	1					
219	4	219	2							
160	203	84	060	1						
			080	1						
			105	1	105	1				
			140	2	140	1	140	1		
					160	1				
					170	1				
			150	1	150	1	150	1		
							219	1		
			160	30			160	5	160	2
							170	8	170	1
							170	4	170	4
							219	2	219	2
			170	36					170	1
									180	3
									219	1
									180	5
									185	5
									219	3
			180	12						
			219	2						
180	2	185	2							
219	5					105	1			
						160	1			
						219	1			

Fall 2003 SAC Cohort			Success in Math Sequence Courses in Subsequent Semesters					
			2nd Semester		3rd Semester		4th Semester	
Course	Total # Enrolled	# success	Course	# success	Course	# success	Course	# success
170	174	83	080	1	145	1		
			105	1				
			140	1	150	1		
			150	1	145	1		
					219	1		
			160	1	180	1		
			170	13	170	5		
					180	1		
					70	1	185	1
					150	1	219	1
					180	11	180	3
							185	4
							185	3
							280	4
					185	14	290	1
					219	1		
			180	188	67	105	1	219
140	0	140				1		
150	4							
170	1	219				1		
		150				1		
		180				10	180	2
							185	2
							185	1
							219	2
		185				12	280	3
		219				1		
							185	3
							219	1
		185				4	280	1
		219				3		
							280	1
							290	2
		280	8	295	2			
		180	1					
		219	6	185	2			
				219	2			

Fall 2003 SAC Cohort			Success in Math Sequence Courses in Subsequent Semesters						
			2nd Semester		3rd Semester		4th Semester		
Course	Total # Enrolled	# success	Course	# success	Course	# success	Course	# success	
185	78	22	185	14	105	1	280	1	
					185	5	280	2	
					219	2	295	1	
					280	1	280	1	
					280	1	140	1	
			219	1	280	1			
			280	14	14	219	1	290	1
						280	2	280	2
						280	2	290	1
						290	4	295	3
						295	2	290	1
219	169	84	070	1					
			105	7	105	1			
			140	2	140	0	105	1	
					150	1			
					219	1			
			145	1					
			150	0	219	1			
			160	3					
			170	1	170	1			
					180	1			
			180	1					
			185	1					
			219	22	22	105	2	105	1
219	6	219				1			
280	0	280				1			
280	32	11	219	1	140	1	150	1	
			280	8	290	1			
					290	1			
			290	3	295	1			
			295	4	290	2			
290	19	15	280	1					
			295	9	219	1			