

Bakersfield College

## CA Benchmarking Project

### Math Sequence Cohorts

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**CA Benchmarking Project**  
**Math Sequence - Successful Course Completion Rates - Fall 2007**

Baseline Data of Successful Course Completion<sup>1</sup> Rates for Courses in the Math Sequence

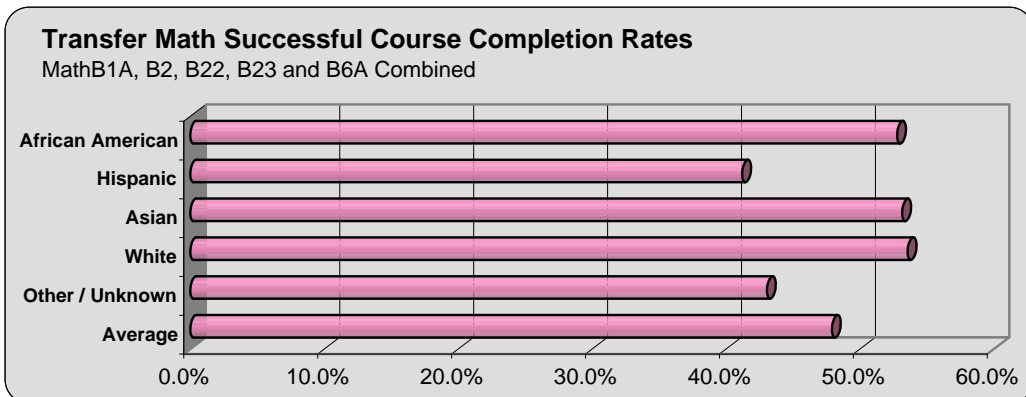
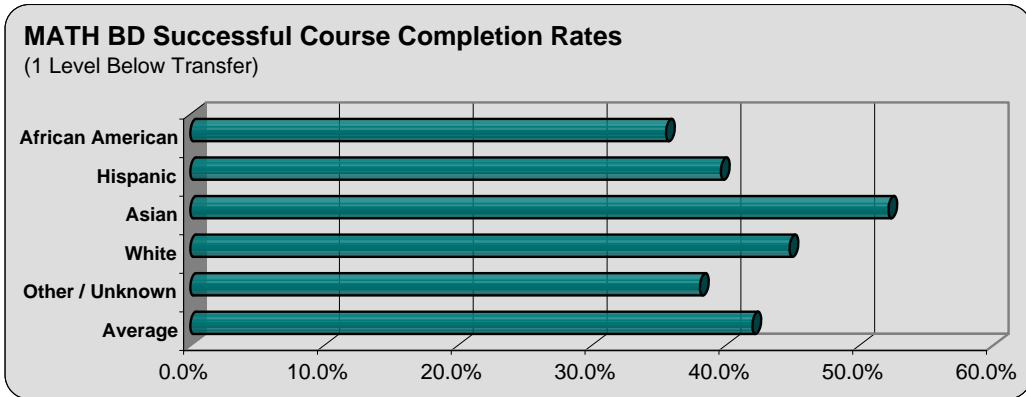
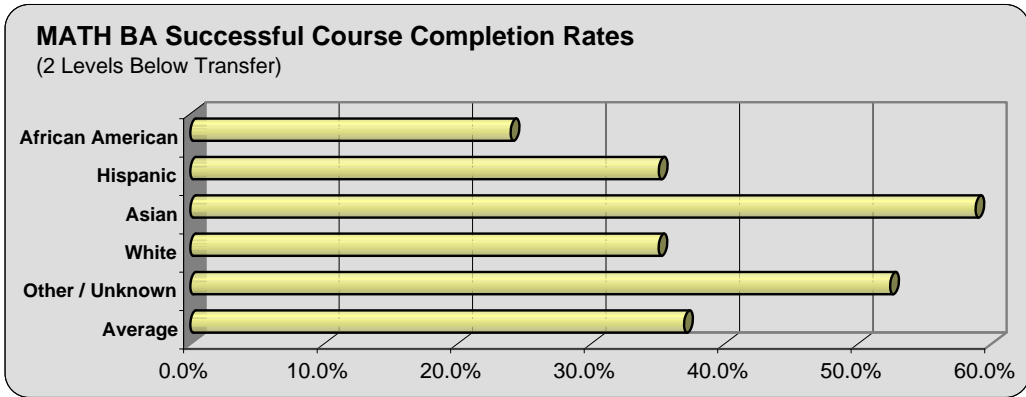
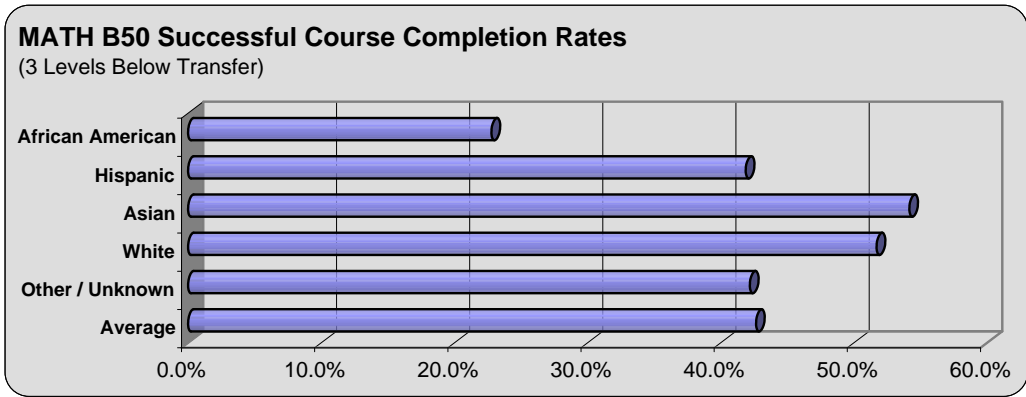
Ethnicity		Math Course Sequence			
		MATH B50 3 Levels Below Transfer	MATH BA 2 Levels Below Transfer	MATH BD 1 Level Below Transfer	MATH B1A, B2, B22, B23 or B6A <sup>2</sup> Transfer Level
African American	Number Enrolled	79	75	45	36
	Success Number	18	18	16	19
	<b>Success Rate</b>	<b>22.8%</b>	<b>24.0%</b>	<b>35.6%</b>	<b>52.8%</b>
Hispanic	Number Enrolled	351	547	411	381
	Success Number	147	192	163	157
	<b>Success Rate</b>	<b>41.9%</b>	<b>35.1%</b>	<b>39.7%</b>	<b>41.2%</b>
Asian/ Filipino/ Pacific Islander	Number Enrolled	24	51	69	111
	Success Number	13	30	36	59
	<b>Success Rate</b>	<b>54.2%</b>	<b>58.8%</b>	<b>52.2%</b>	<b>53.2%</b>
White	Number Enrolled	176	362	288	379
	Success Number	91	127	129	203
	<b>Success Rate</b>	<b>51.7%</b>	<b>35.1%</b>	<b>44.8%</b>	<b>53.6%</b>
Other / Unknown	Number Enrolled	64	103	63	72
	Success Number	27	54	24	31
	<b>Success Rate</b>	<b>42.2%</b>	<b>52.4%</b>	<b>38.1%</b>	<b>43.1%</b>
Total	Number Enrolled	694	1138	876	979
	Success Number	296	421	368	469
	<b>Success Rate</b>	<b>42.7%</b>	<b>37.0%</b>	<b>42.0%</b>	<b>47.9%</b>

<sup>1</sup> Course Completion with a Grade of A, B, C or Credit is considered "Successful"

<sup>2</sup> Select Transfer Level Math Courses - there were no MathB16 or MathBC enrollments during Fall 2007

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**Math Sequence - Successful Course Completion Rates<sup>1</sup> - Fall 2007**



<sup>1</sup> Course Completion with a Grade of A, B, C or Credit is considered "Successful"

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**Math Sequence - F07 Successful Course Completion Rates - Fall 2007**

Grade Distributions for all Sections of each Course in the Math Course Sequence

Course	Ethnicity	Grades								Successful <sup>1</sup>	
		A	B	C	D	F	IF	W	Total	#	%
<b>MATHB50</b>	African American	3	5	10	8	17	6	30	79	18	22.8%
	Hispanic	18	55	74	51	67	19	67	351	147	41.9%
	Asian/Filipino/Pacific Islander	3	3	7	2	4	3	2	24	13	54.2%
	White	24	26	41	17	21	15	32	176	91	51.7%
	Other/Unknown	7	6	14	9	14	6	8	64	27	42.2%
	<b>MATHB50 Total</b>		<b>55</b>	<b>95</b>	<b>146</b>	<b>87</b>	<b>123</b>	<b>49</b>	<b>139</b>	<b>694</b>	<b>296</b>
<b>MATHBA</b>	African American	1	3	14	7	25	8	17	75	18	24.0%
	Hispanic	50	63	79	86	134	29	105	547	192	35.1%
	Asian/Filipino/Pacific Islander	10	11	9	5	10	2	4	51	30	58.8%
	White	33	39	55	49	82	35	69	362	127	35.1%
	Other/Unknown	13	20	21	13	23	2	11	103	54	52.4%
	<b>MATHBA Total</b>		<b>107</b>	<b>136</b>	<b>178</b>	<b>160</b>	<b>274</b>	<b>76</b>	<b>206</b>	<b>1138</b>	<b>421</b>
<b>MATHBD</b>	African American	2	5	9	4	12	1	12	45	16	35.6%
	Hispanic	20	62	81	42	93	10	103	411	163	39.7%
	Asian/Filipino/Pacific Islander	14	9	13	5	12	4	12	69	36	52.2%
	White	22	34	73	23	56	12	68	288	129	44.8%
	Other/Unknown	1	14	9	2	22	3	12	63	24	38.1%
	<b>MATHBD Total</b>		<b>59</b>	<b>124</b>	<b>185</b>	<b>76</b>	<b>195</b>	<b>30</b>	<b>207</b>	<b>876</b>	<b>368</b>
<b>Transfer Math (MATH B6A, B1A, B2, B22, B23)</b>	African American	1	7	11	4	3	1	9	36	19	52.8%
	Hispanic	30	61	66	51	95	3	75	381	157	41.2%
	Asian/Filipino/Pacific Islander	25	16	18	15	21	1	15	111	59	53.2%
	White	64	59	80	31	64	2	79	379	203	53.6%
	Other/Unknown	6	11	14	4	20		17	72	31	43.1%
	<b>Transfer Math Total</b>		<b>126</b>	<b>154</b>	<b>189</b>	<b>105</b>	<b>203</b>	<b>7</b>	<b>195</b>	<b>979</b>	<b>469</b>

<sup>1</sup> Course Completion with a Grade of A, B, C or Credit is considered "Successful"

Bakersfield College  
**CA Benchmarking Project**  
**Migration through Basic Skills Worksheet**

**Math Sequence - Students Beginning with Lowest Level Basic Skills**

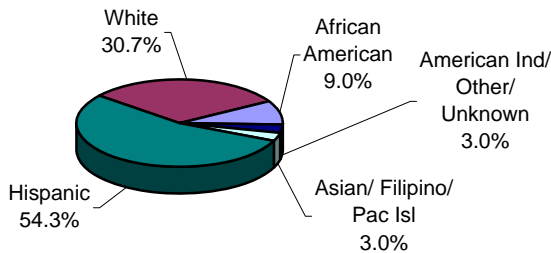
Tracking first-time students taking MATH B50 in Fall 2003 through their subsequent enrollments in MATH BA, MATH BD and specific transfer level Math courses from Spring 2004 through Spring 2007 (10 terms).

<b>Math Course Sequence</b>																
<b>Ethnicity</b>	<b>MATH B50 (Cohort)</b>			<b>MATH BA</b>				<b>MATH BD</b>				<b>MATH B1A, B16, B2, B22, B23, BC or B6A</b>				<b>% of MATHB50 Cohort to Successfully Complete Transfer Math within 10 Terms</b>
	3 Levels Below Transfer			2 Levels Below Transfer				1 Level Below Transfer				<u>Transfer</u> Level				
	Enrolled # in Cohort	Successful #	%	Enrolled #	% of Cohort	Successful #	%	Enrolled #	% of Cohort	Successful #	%	Enrolled #	% of Cohort	Successful #	%	
<b>African American</b>	24	5	<b>20.8%</b>	4	16.7%	-	<b>0.0%</b>	-	0.0%	-	<b>0.0%</b>	-	0.0%	-	<b>0.0%</b>	
<b>Hispanic</b>	145	73	<b>50.3%</b>	58	40.0%	34	<b>58.6%</b>	21	14.5%	13	<b>61.9%</b>	6	4.1%	3	<b>50.0%</b>	
<b>Asian/ Filipino/ Pacific Islander</b>	8	6	<b>75.0%</b>	4	50.0%	2	<b>50.0%</b>	2	25.0%	1	<b>50.0%</b>	1	12.5%	-	<b>0.0%</b>	
<b>White</b>	82	52	<b>63.4%</b>	31	37.8%	16	<b>51.6%</b>	10	12.2%	8	<b>80.0%</b>	4	4.9%	3	<b>75%</b>	
<b>Other / Unknown</b>	8	4	<b>50.0%</b>	1	12.5%	1	<b>100%</b>	1	12.5%	-	<b>0.0%</b>	-	0.0%	-	<b>0.0%</b>	
<b>Total</b>	267	140	<b>52.4%</b>	98	36.7%	53	<b>54.1%</b>	34	12.7%	22	<b>64.7%</b>	11	4.1%	6	<b>54.5%</b>	

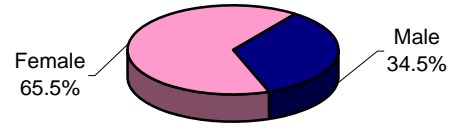
**Explanation:** The study includes first-time students who began their sequence of Math coursework in MATH B50, the lowest level basic skills Math course, during Fall 2003. They were tracked for subsequent enrollments from Spring 2004 through Spring 2007 including summer terms - 10 terms in all. Enrollments and successful completions (A, B, C or CR grades) were noted as they migrated from the lowest level basic skills course up to one of the transfer level Math courses (MATH B1A, B16, B2, B22, B23, BC or B6A). Success rates in the subsequent courses include the best attempt in the course.

**Bakersfield College**  
**CA Benchmarking Project**  
**MATH - Lowest Basic Skills Cohort (MathB50) Demographics - Fall 2003**

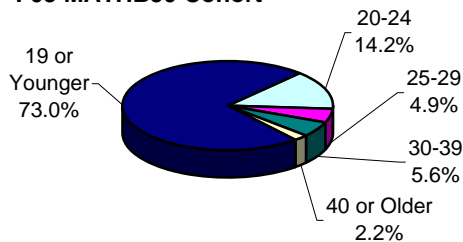
**Ethnicity - F03 MATHB50 Cohort**



**Gender - F03 MATHB50 Cohort**

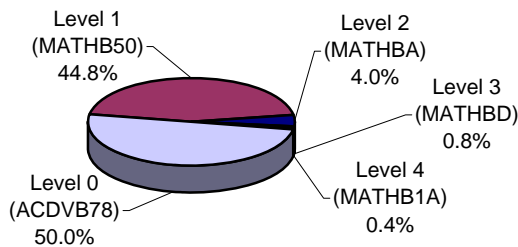


**Age - F03 MATHB50 Cohort**



**Placement Results - F03 MATHB50 Cohort**

Results below are for those who tested.  
 However, 5.6% of the cohort did not have test results.



Major - F03 MATHB50 Cohort		
Major	#	%
Undeclared	79	29.6%
Registered Nursing	24	9.0%
Liberal Studies	18	6.7%
Child Development Teacher	15	5.6%
Business Administration	13	4.9%
Child Dvlp & Family Relations	8	3.0%
Psychology	8	3.0%
Radiological Technology	8	3.0%
Administration of Justice	7	2.6%
Correctional Administration	7	2.6%
Computer Science	6	2.2%
Liberal Arts/ Science	6	2.2%
Architecture/Architrl Drft	5	1.9%
Vocational Nursing	5	1.9%
Computer Graphic Art	4	1.5%
Computer Information Systems	4	1.5%
LVN to Associate Degree Nurse	4	1.5%
Child Dvlpmnt Master Teacher	3	1.1%
Music	3	1.1%
Real Estate	3	1.1%
Animal Science	2	0.7%
Auto Tune-up	2	0.7%
Biology	2	0.7%
Engineering, General	2	0.7%
General Business	2	0.7%
History	2	0.7%
Human Services	2	0.7%
Indstrl Tech, Automotive Optn	2	0.7%
Physical Education	2	0.7%
Accounting	1	0.4%
Agriculture Business Mgmt	1	0.4%
Art	1	0.4%
Chief Officer Certification	1	0.4%
Dietetic Services	1	0.4%
Economics	1	0.4%
Electrician Apprenticeship	1	0.4%
English	1	0.4%
Fire Officer Certification	1	0.4%
Fire Technology	1	0.4%
Journalism	1	0.4%
Mathematics	1	0.4%
Office Assistant I	1	0.4%
Photography	1	0.4%
Political Science	1	0.4%
Political Sci-Internl Relation	1	0.4%
Pre-veterinary Medicine	1	0.4%
Sheetmetal Apprenticeship	1	0.4%
Sociology	1	0.4%
<b>Grand Total</b>	<b>267</b>	

Self-Declared Goal - F03 MATHB50 Cohort		
Goal	#	%
Associate degree w/o transfer	5	1.9%
BA after completing AA	120	44.9%
BA w/o completing AA	24	9.0%
Vocational degree w/o transfer	8	3.0%
Earn vocational certificate	3	1.1%
Maintain certificate/license	4	1.5%
Job advancement	3	1.1%
Prepare for new career	14	5.2%
Discover career interests	9	3.4%
Educational development	4	1.5%
Improve basic skills	6	2.2%
GED preparation	2	0.7%
Undecided	65	24.3%
<b>Grand Total</b>	<b>267</b>	

Bakersfield College  
**CA Benchmarking Project**  
**Migration through Basic Skills Worksheet**

**Math Sequence - Beginning with Highest Level Basic Skills**

Tracking first-time students taking MATH BD in Fall 2003 through their subsequent enrollments in specific transfer level Math courses from Spring 2004 through Spring 2007 (10 terms).

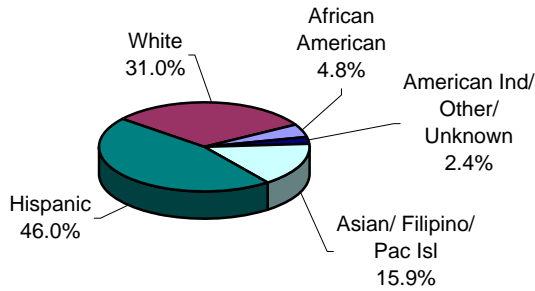
Ethnicity	Math Course Sequence							% of MATHBD Cohort to Successfully Complete Transfer Math within 10 Terms
	MATH BD ( <u>Cohort</u> ) 1 Level Below Transfer			MATH B1A, B16, B2, B22, B23, BC or B6A <u>Transfer</u> Level				
	Enrolled # in Cohort	Successful #	%	Enrolled #	% of Cohort	Successful #	%	
African American	6	3	50.0%	1	16.7%	-	0.0%	0.0%
Hispanic	58	20	34.5%	13	22.4%	8	61.5%	13.8%
Asian/ Filipino/ Pacific Islander	20	6	30.0%	5	25.0%	5	100%	25.0%
White	39	15	38.5%	11	28.2%	6	54.5%	15.4%
Other / Unknown	3	2	66.7%	1	33.3%	1	100%	33.3%
<b>Total</b>	126	46	36.5%	31	24.6%	20	64.5%	15.9%

**Explanation:** The study includes first-time students who began their sequence of Math coursework in MATH BD, the highest level basic skills Math course, during Fall 2003. They were tracked for subsequent enrollments from Spring 2004 through Spring 2007 including summer terms - 10 terms in all. Enrollments and successful completions (A, B, C or CR grades) were noted as they migrated to a transfer level Math course (MATH B1A, B16, B2, B22, B23, BC or B6A). Success rates in the subsequent courses include the best attempt in the course.

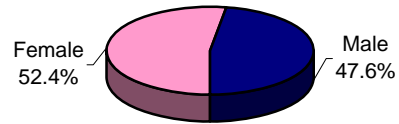
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**MATH - Highest Basic Skills Cohort (MATH BD) Demographics - Fall 2003**

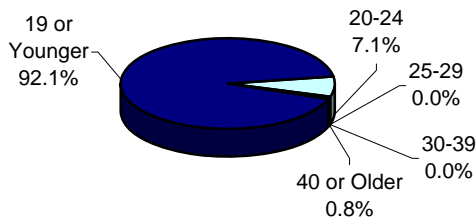
**Ethnicity - F03 MATHBD Cohort**



**Gender - F03 MATHBD Cohort**

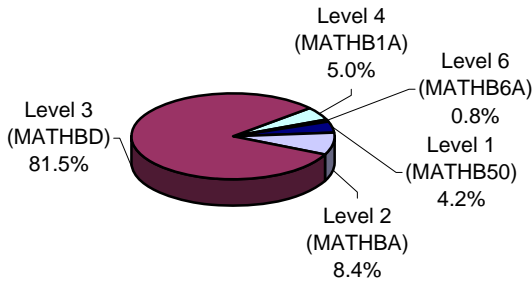


**Age - F03 MATHBD Cohort**



**Placement Results - F03 MATHBD Cohort**

Results below are for those who tested.  
However, 5.6% of the cohort did not have test results.



Major - F03 MATHBD Cohort		
Major	#	%
Undeclared	50	39.7%
Business Administration	9	7.1%
Psychology	8	6.3%
Liberal Studies	7	5.6%
Registered Nursing	5	4.0%
Vocational Nursing	5	4.0%
Administration of Justice	4	3.2%
Biology	4	3.2%
Chemistry	3	2.4%
Child Development Teacher	3	2.4%
Computer Science	2	1.6%
Correctional Administration	2	1.6%
Engineering Technology	2	1.6%
Liberal Arts/ Science	2	1.6%
LVN to Associate Degree Nurse	2	1.6%
Marketing	2	1.6%
Radiological Technology	2	1.6%
Accounting	1	0.8%
Architecture/Architrl Drft	1	0.8%
Computer Graphic Art	1	0.8%
Culinary Arts	1	0.8%
Engineering, General	1	0.8%
English	1	0.8%
Fire Technology	1	0.8%
General Business	1	0.8%
Indstrl Tech, Welding Option	1	0.8%
Music	1	0.8%
Photography	1	0.8%
Plumbing/Pipefitting	1	0.8%
Pre-veterinary Medicine	1	0.8%
Theatre Arts	1	0.8%
<b>Grand Total</b>	<b>126</b>	

**Self-Declared Goal - F03 MATHBD Cohort**

Goal	#	%
Associate degree w/o transfer	2	1.6%
BA after completing AA	57	45.2%
BA w/o completing AA	22	17.5%
Vocational degree w/o transfer	0	0.0%
Earn vocational certificate	1	0.8%
Maintain certificate/license	0	0.0%
Job advancement	1	0.8%
Prepare for new career	4	3.2%
Discover career interests	7	5.6%
Educational development	0	0.0%
Improve basic skills	3	2.4%
GED preparation	2	1.6%
Undecided	27	21.4%
<b>Grand Total</b>	<b>126</b>	