

Table 2: Selected outcomes by first math course attempted

	<i>N</i>	% did not demonstrate quantitative competency	% demonstrated associate-level quantitative competency		% demonstrated transfer-level quantitative competency	Total
			by completing a qualifying non-math course	by completing a qualifying math course		
ACDV B72	1,070	85%	4%	8%	3%	100%
Math B60	1,435	60%	5%	23%	13%	100%
Math B65	146	69%	8%	1%	22%	100%
LRNC B530 (Math B60)	68	31%	6%	25%	38%	100%
Math B70	938	32%	4%	34%	30%	100%

Note: Each student is assigned to only one category of demonstrating (or not demonstrating) quantitative competency.

Table 4: Distribution of second math course attempted by first math course attempted and outcome in first attempt of first math course, either successful or unsuccessful (transfer-seeking students only)

	<i>N</i>	Second Math									Total
		No Second Math	Repeat	Math B60	Math B70	LRNC B530 (Math B70)	Math B1A	Math B22	Psyc B5	Other	
Successful in First Attempt of First Math											
ACDV B72	376	32%	----	53%	----	----	----	----	----	15%	100%
Math B60	576	14%	----	----	84%	----	----	----	----	2%	100%
Math B65	74	43%	----	----	----	----	----	26%	23%	8%	100%
LRNC B530 (Math B60)	44	----	----	----	----	98%	----	----	----	2%	100%
Math B70	404	28%	----	----	----	----	31%	28%	10%	3%	100%
Unsuccessful in First Attempt of First Math											
ACDV B72	241	74%	23%	----	----	----	----	----	----	3%	100%
Math B60	475	63%	27%	----	----	----	----	----	----	11%	100%
Math B65	45	71%	----	----	----	----	----	----	----	29%	100%
LRNC B530 (Math B60)	6	----	----	----	----	----	----	----	----	100%	100%
Math B70	361	50%	42%	----	----	----	----	----	----	8%	100%

NOTE: Cells with few students were collapsed together into the *Other* column. As a result, cells marked "----" do not necessarily indicate that zero students attempted a given combination of first and second courses. Rather, these cells simply had too few students to warrant further analysis at this time.

Table 5: Selected outcomes by math pathway (transfer-seeking students only)

First Math	Outcome in First Math	Second Math	<i>N</i>	% successful in second math (on first attempt)	% achieved transfer-level quantitative competency
ACDV B72	Successful	Math B60	198	49%	8%
Math B60	Successful	Math B70	483	55%	28%
Math B65	Successful	Math B22	19	42%	53%
Math B65	Successful	Psyc B5	17	88%	88%
LRNC B530 (Math B60)	Successful	LRNC B530 (Math B70)	43	58%	47%
Math B70	Successful	Math B1A	124	51%	71%
Math B70	Successful	Math B22	113	50%	76%
Math B70	Successful	Psyc B5	41	90%	93%
ACDV B72	Unsuccessful	ACDV B72	55	45%	0%
Math B60	Unsuccessful	Math B60	126	58%	6%
Math B70	Unsuccessful	Math B70	151	50%	17%

Table 8: Predicted probabilities of achieving each of three quantitative competency outcomes for six subsamples of developmental math students, based on estimates derived from logistic regression analyses (not shown)

Subsample	Transfer Seeking	First Math	Outcome in First Attempt of First Math	Second Math	Predicted Probability		
					Achieving Associate-Level or Transfer-Level Quantitative Competency	Achieving Transfer-Level Quantitative Competency	Completing STEM-Track Math Course
1	Yes	Math B60	Any	Any or None	0.32	0.09	0.03
		Math B65	Any	Any or None	0.34	0.24	0.02
		LRNC B530 (Math B60)	Any	Any or None	0.63	0.27	0.17
		Math B70	Any	Any or None	0.59	0.20	0.11
				N	1,985	1,985	1,985
2	Yes	Math B60	Successful	Any or None	0.59	0.19	0.07
		Math B65	Successful	Any or None	0.51	0.38	0.04
		LRNC B530 (Math B60)	Successful	Any or None	0.70	0.37	0.24
		Math B70	Successful	Any or None	H	0.44	0.23
				N	694	1,098	1,098
3	Yes	Math B60	Successful	Math B70	0.61	0.20	0.06
		Math B65	Successful	Math B22	0.67	0.53	L
		Math B65	Successful	Psyc B5	H	0.88	L
		LRNC B530 (Math B60)	Successful	LRNC B530 (Math B70)	0.63	0.37	0.19
		Math B70	Successful	Math B1A	H	0.65	0.61
		Math B70	Successful	Math B22	H	0.69	0.06
		Math B70	Successful	Psyc B5	H	0.89	0.02
				N	545	840	804

High School Performance Metric for Statistics/Liberal Arts Mathematics
 HSGPA ≥ 3.0
 Success rate = 75%

HSGPA from 2.3 to 2.9
 Success rate = 50%

HSGPA < 2.3
 Success rate of 29%

High School Performance Metric BSTEM Mathematics¹
 HSGPA ≥ 3.4 OR HSGPA ≥ 2.6 AND enrolled in a HS Calculus course
 Success rate = 75%

HSGPA ≥ 2.6 or Enrolled in HS Precalculus
 Success rate = 53%

HSGPA ≤ 2.6 and no Precalculus
 Success rate = 28%

Subsample	Transfer Seeking	First Math	Outcome in First Attempt of First Math	Second Math	Predicted Probability		
					Achieving Associate-Level or Transfer-Level Quantitative Competency	Achieving Transfer-Level Quantitative Competency	Completing STEM-Track Math Course
4	No	Math B60	Any	Any or None	0.38	0.08	0.05
		Math B65	Any	Any or None	0.08	0.11	L
		LRNC B530 (Math B60)	Any	Any or None	0.58	0.42	0.13
		Math B70	Any	Any or None	0.66	0.26	0.26
				N	602	578	553
5	No	Math B60	Successful	Any or None	0.68	0.18	0.13
		Math B65	Successful	Any or None	0.19	0.23	L
		LRNC B530 (Math B60)	Successful	Any or None	0.82	0.63	0.20
		Math B70	Successful	Any or None	H	0.56	0.49
				N	219	294	282
6	No	Math B60	Successful	Math B70	0.84	0.15	0.14
		Math B65	Successful	Math B22	L	L	L
		Math B65	Successful	Psyc B5	H	H	L
		LRNC B530 (Math B60)	Successful	LRNC B530 (Math B70)	0.88	0.61	0.13
		Math B70	Successful	Math B1A	H	0.81	0.89
		Math B70	Successful	Math B22	H	0.58	0.19
		Math B70	Successful	Psyc B5	H	H	L
				N	162	202	202

High School Performance Metric for Statistics/Liberal Arts Mathematics HSGPA ≥ 3.0 Success rate = 75%	High School Performance Metric BSTEM Mathematics¹ HSGPA ≥ 3.4 OR HSGPA ≥ 2.6 AND enrolled in a HS Calculus course Success rate = 75%
HSGPA from 2.3 to 2.9 Success rate = 50%	HSGPA ≥ 2.6 or Enrolled in HSPrecalculus Success rate = 53%
HSGPA < 2.3 Success rate of 29%	HSGPA ≤ 2.6 and no Precalculus Success rate = 28%

Table 18: Predicted probabilities of achieving transfer-level English competency by point of entry to the curriculum and level of high school achievement, based on estimates derived from a logistic regression analysis (not shown)

Band of GPA	First Course	Achievement of Transfer-level English Competency		
		25 th Percentile GPA and Math Scaled Score	50 th Percentile GPA and Math Scaled Score	75 th Percentile GPA and Math Scaled Score
< 1.90	Engl B60	0.01	0.01	0.01
	Engl B53	0.05	0.06	0.08
	Engl B50	0.09	0.12	0.15
	LRNC B510	0.11	0.12	0.14
	Engl B1A	0.20	0.23	0.27
1.90-2.59	Engl B60	0.01	0.02	0.04
	Engl B53	0.09	0.12	0.18
	Engl B50	0.14	0.19	0.25
	LRNC B510	0.22	0.28	0.36
	Engl B1A	0.30	0.37	0.44
2.60-4.00	Engl B60	0.05	0.08	0.15
	Engl B53	0.21	0.30	0.41
	Engl B50	0.25	0.33	0.42
	LRNC B510	0.52	0.61	0.73
	Engl B1A	0.51	0.59	0.68

High School Performance Metric for English

HSGPA \geq 2.6

Success rate = 78.6%

HSGPA 1.9 - 2.6

Success rate = 57.7%

HSGPA < 1.9

Success rate = 42.6%

Math STATS	≤2.3	2.3-2.99	3.0-4.0	Total
Number	407	885	380	1,672
Stats predicted Success	118	443	285	846
Stats predicted Failure	289	443	95	826
English	≤1.9	2.0-2.59	2.6-4.0	Total
Number	232	1,455	1,345	3122
Stats Predicted Success	99	840	1057	1996
Stats predicted Failure	133	615	287.83	1036
* actual success is lower				