NECC
Northern Essex Community College

NECC Developmental Math Tutoring Center Results
Spring 2011

A total of 332 students taking one or more developmental math courses received tutoring services through the Math Tutoring Center (MTC) in Spring 2011. As displayed in Table 1, the majority of students (65%) had between one and three sessions at the MTC. On average, these students had 4 sessions at the MTC during Spring 2011 with a minimum of one session and a maximum of 25 sessions. Table 2 below depicts the total time spent by the 332 students at the MTC; the majority of which (21%) spent 1 - 2 hours. The 332 students averaged a total of 5.5 hours at the MTC, with a minimum time of 1 minute and a maximum time of 53 hours over the course of the semester.

Table 1

Number of Sessions at MTC		
Sessions	N	%
1	125	37.7%
2	56	16.9%
3	36	10.8%
4	26	7.8%
5	19	5.7%
6	13	3.9%
7	9	2.7%
8	9	2.7%
9	8	2.4%
10	3	0.9%
11	5	1.5%
12	2	0.6%
13	5	1.5%
14	3	0.9%
15	3	0.9%
16	2	0.6%
17	2	0.6%
18	1	0.3%
20	1	0.3%
21	1	0.3%
22	1	0.3%
24	1	0.3%
25	1	0.3%
Total	332	100.0%

Table 2

Total Hours at MTC		
Total Time	N	%
Less Than 1 Hour	37	11.1%
1 - 2 Hours	71	21.4%
2 - 3 Hours	44	13.3%
3 - 4 Hours	34	10.2%
4 - 5 Hours	32	9.6%
5 - 6 Hours	11	3.3%
6 - 7 Hours	17	5.1%
7 - 8 Hours	8	2.4%
8 - 9 Hours	11	3.3%
9 - 10 Hours	17	5.1%
10 - 11 Hours	7	2.1%
11 Hours or More	43	13.0%
Total	332	100.0%

A total of 1,006 developmental MAT course grades were distributed to 1,000 students during the Spring 2011 semester. Students who sought services achieved higher A – C and A – D completion rates in MAT courses than students who did not participate at the MTC. These differences were statistically significant[1].

Table 3

Grade	DMC	%	No DMC	%	Total	%
Completion Rates of All DEV MAT Courses by MTC Participation						
A	50	14.8%	100	14.9%	150	14.9%
A-	37	11.0%	44	6.6%	81	8.1%
B+	23	6.8%	28	4.2%	51	5.1%
B	34	10.1%	47	7.0%	81	8.1%
B-	28	8.3%	35	5.2%	63	6.3%
C+	20	5.9%	23	3.4%	43	4.3%
C	34	10.1%	49	7.3%	83	8.3%
C-	6	1.8%	13	1.9%	19	1.9%
D+	4	1.2%	15	2.2%	19	1.9%
D	23	6.8%	22	3.3%	45	4.5%
Other	78	23.1%	293	43.8%	371	36.9%
Total	**337**	**100.0%**	**669**	**100.0%**	**1,006**	**100.0%**
A - C Completion Rate	67.1%		48.7%		54.9%	
A - D Completion Rate	76.9%		56.2%		63.1%	

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[1] χ^2=30.42, p = .000 and χ^2=41.06, p = .000, respectively.

For the 337 MAT grades distributed to students that received MTC services in Spring 2011, there were no significant differences between the number of sessions and the total time spent at the MTC with the final grades for MAT courses. There were also no significant relationships between these two variables and grade distributions.

Table 4

Total MTC Hours by Grouped MAT Grades												
	A	%	B	%	C	%	D	%	Other	%	Total	%
Less Than 1 Hour	9	10.3%	13	15.3%	5	8.3%	0	0.0%	11	14.1%	38	11.3%
1 - 2 Hours	19	21.8%	17	20.0%	9	15.0%	3	11.1%	24	30.8%	72	21.4%
2 - 3 Hours	14	16.1%	12	14.1%	8	13.3%	2	7.4%	8	10.3%	44	13.1%
3 - 4 Hours	10	11.5%	6	7.1%	5	8.3%	6	22.2%	8	10.3%	35	10.4%
4 - 5 Hours	9	10.3%	8	9.4%	8	13.3%	3	11.1%	5	6.4%	33	9.8%
5 - 6 Hours	2	2.3%	3	3.5%	0	0.0%	3	11.1%	3	3.8%	11	3.3%
6 - 7 Hours	3	3.4%	5	5.9%	3	5.0%	2	7.4%	4	5.1%	17	5.0%
7 - 8 Hours	2	2.3%	1	1.2%	3	5.0%	1	3.7%	1	1.3%	8	2.4%
8 - 9 Hours	4	4.6%	1	1.2%	2	3.3%	2	7.4%	2	2.6%	11	3.3%
9 - 10 Hours	2	2.3%	7	8.2%	4	6.7%	4	14.8%	1	1.3%	18	5.3%
10 - 11 Hours	1	1.1%	1	1.2%	5	8.3%	0	0.0%	0	0.0%	7	2.1%
11 Hours or More	12	13.8%	11	12.9%	8	13.3%	1	3.7%	11	14.1%	43	12.8%
Total	87	100.0%	85	100.0%	60	100.0%	27	100.0%	78	100.0%	337	100.0%

Table 5

Total MTC Hours by Grouped MAT Grades												
Sessions	A	%	B	%	C	%	D	%	Other	%	Total	%
1	33	37.9%	30	35.3%	19	31.7%	9	33.3%	37	47.4%	128	38.0%
2	11	12.6%	18	21.2%	11	18.3%	3	11.1%	13	16.7%	56	16.6%
3	12	13.8%	6	7.1%	8	13.3%	3	11.1%	8	10.3%	37	11.0%
4	6	6.9%	5	5.9%	5	8.3%	5	18.5%	5	6.4%	26	7.7%
5	6	6.9%	5	5.9%	3	5.0%	4	14.8%	1	1.3%	19	5.6%
6	3	3.4%	4	4.7%	3	5.0%	2	7.4%	1	1.3%	13	3.9%
7	2	2.3%	3	3.5%	2	3.3%	0	0.0%	3	3.8%	10	3.0%
8	2	2.3%	2	2.4%	2	3.3%	1	3.7%	2	2.6%	9	2.7%
9	3	3.4%	1	1.2%	3	5.0%	0	0.0%	1	1.3%	8	2.4%
10	1	1.1%	1	1.2%	1	1.7%	0	0.0%	0	0.0%	3	0.9%
11 - 15	4	4.6%	6	7.1%	3	5.0%	0	0.0%	5	6.4%	18	5.3%
16 - 20	3	3.4%	1	1.2%	0	0.0%	0	0.0%	2	2.6%	6	1.8%
21 or More	1	1.1%	3	3.5%	0	0.0%	0	0.0%	0	0.0%	4	1.2%
Total	87	100.0%	85	100.0%	60	100.0%	27	100.0%	78	100.0%	337	100.0%