

A total of 387 students taking one or more developmental math courses received tutoring services through the Developmental Math Center (DMC) in Fall 2010. As displayed in Table 1, the majority of students (67%) had between one and three sessions at the DMC. On average, these students had 4 sessions at the DMC during Fall 2010 with a minimum of one session and a maximum of 27 sessions. Table 2 below depicts the total time spent by the 387 students at the DMC; the majority of which (23%) spent 1 - 2 hours. The 387 students averaged a total of 5.6 hours at the DMC, with a minimum time of 15 minutes and a maximum time of 56 hours over the course of the semester.

Table 1

Number of Sessions at DMC		
Sessions	N	%
1	142	36.7%
2	62	16.0%
3	55	14.2%
4	28	7.2%
5	16	4.1%
6	13	3.4%
7	13	3.4%
8	12	3.1%
9	6	1.6%
10	6	1.6%
11	6	1.6%
12	4	1.0%
13	2	0.5%
14	3	0.8%
15	1	0.3%
16	5	1.3%
17	1	0.3%
18	6	1.6%
20	1	0.3%
21	1	0.3%
22	2	0.5%
24	1	0.3%
27	1	0.3%
<b>Total</b>	<b>387</b>	<b>100.0%</b>

Table 2

Total Hours at DMC		
Total Time	N	%
Less Than 1 Hour	60	15.5%
1 - 2 Hours	87	22.5%
2 - 3 Hours	60	15.5%
3 - 4 Hours	41	10.6%
4 - 5 Hours	15	3.9%
5 - 6 Hours	17	4.4%
6 - 7 Hours	18	4.7%
7 - 8 Hours	7	1.8%
8 - 9 Hours	8	2.1%
9 - 10 Hours	13	3.4%
10 - 11 Hours	4	1.0%
11 Hours or More	57	14.7%
<b>Total</b>	<b>387</b>	<b>100.0%</b>

A total of 1,392 developmental MAT course grades were distributed to 1,384 students during the Fall 2010 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 DMC. These differences were statistically significant<sup>1</sup>.

Table 3

<b>Completion Rates of All DEV MAT Courses by DMC Participation</b>						
<b>Grade</b>	<b>DMC</b>		<b>No DMC</b>		<b>Total</b>	
		<b>%</b>		<b>%</b>		<b>%</b>
A	63	16.2%	142	14.2%	205	14.7%
A-	30	7.7%	68	6.8%	98	7.0%
B+	29	7.4%	73	7.3%	102	7.3%
B	39	10.0%	86	8.6%	125	9.0%
B-	32	8.2%	56	5.6%	88	6.3%
C+	24	6.2%	50	5.0%	74	5.3%
C	45	11.5%	73	7.3%	118	8.5%
C-	6	1.5%	13	1.3%	19	1.4%
D+	8	2.1%	19	1.9%	27	1.9%
D	12	3.1%	49	4.9%	61	4.4%
Other	102	26.2%	373	37.2%	475	34.1%
<b>Total</b>	<b>390</b>	<b>100.0%</b>	<b>1,002</b>	<b>100.0%</b>	<b>1,392</b>	<b>100.0%</b>
A - C Completion Rate	67.2%		54.7%		58.2%	
A - D Completion Rate	73.8%		62.8%		65.9%	

<sup>1</sup>  $\chi^2=17.997$ ,  $p = .000$  and  $\chi^2=15.309$ ,  $p = .000$ , respectively.

For the 390 MAT grades distributed to students that received DMC services in Fall 2010, there were no significant differences between the number of sessions and the total time spent at the DMC with the final grades for MAT courses. There were also no significant relationships between these two variables and grade distributions.

Table 4

<b>Total DMC Hours by Grouped MAT Grades</b>												
	<b>A</b>	<b>%</b>	<b>B</b>	<b>%</b>	<b>C</b>	<b>%</b>	<b>D</b>	<b>%</b>	<b>Other</b>	<b>%</b>	<b>Total</b>	<b>%</b>
Less Than 1 Hour	15	16.1%	17	17.0%	11	14.7%	4	20.0%	13	12.7%	60	15.4%
1 - 2 Hours	19	20.4%	17	17.0%	19	25.3%	5	25.0%	27	26.5%	87	22.3%
2 - 3 Hours	20	21.5%	14	14.0%	11	14.7%	4	20.0%	12	11.8%	61	15.6%
3 - 4 Hours	7	7.5%	10	10.0%	8	10.7%	2	10.0%	14	13.7%	41	10.5%
4 - 5 Hours	3	3.2%	4	4.0%	5	6.7%	0	0.0%	3	2.9%	15	3.8%
5 - 6 Hours	3	3.2%	5	5.0%	2	2.7%	0	0.0%	7	6.9%	17	4.4%
6 - 7 Hours	4	4.3%	6	6.0%	5	6.7%	1	5.0%	2	2.0%	18	4.6%
7 - 8 Hours	2	2.2%	3	3.0%	2	2.7%	0	0.0%	1	1.0%	8	2.1%
8 - 9 Hours	4	4.3%	1	1.0%	0	0.0%	1	5.0%	2	2.0%	8	2.1%
9 - 10 Hours	3	3.2%	4	4.0%	2	2.7%	0	0.0%	4	3.9%	13	3.3%
10 - 11 Hours	0	0.0%	2	2.0%	1	1.3%	0	0.0%	2	2.0%	5	1.3%
11 Hours or More	13	14.0%	17	17.0%	9	12.0%	3	15.0%	15	14.7%	57	14.6%
<b>Total</b>	<b>93</b>	<b>100.0%</b>	<b>100</b>	<b>100.0%</b>	<b>75</b>	<b>100.0%</b>	<b>20</b>	<b>100.0%</b>	<b>102</b>	<b>100.0%</b>	<b>390</b>	<b>100.0%</b>

Table 5

<b>Total DMC Hours by Grouped MAT Grades</b>												
<b>Sessions</b>	<b>A</b>	<b>%</b>	<b>B</b>	<b>%</b>	<b>C</b>	<b>%</b>	<b>D</b>	<b>%</b>	<b>Other</b>	<b>%</b>	<b>Total</b>	<b>%</b>
1	33	35.5%	39	39.0%	25	33.3%	10	50.0%	36	35.3%	143	36.7%
2	19	20.4%	14	14.0%	15	20.0%	1	5.0%	13	12.7%	62	15.9%
3	13	14.0%	12	12.0%	15	20.0%	1	5.0%	14	13.7%	55	14.1%
4	3	3.2%	3	3.0%	5	6.7%	3	15.0%	14	13.7%	28	7.2%
5	1	1.1%	10	10.0%	2	2.7%	2	10.0%	2	2.0%	17	4.4%
6	3	3.2%	4	4.0%	1	1.3%	1	5.0%	5	4.9%	14	3.6%
7	5	5.4%	1	1.0%	3	4.0%	0	0.0%	4	3.9%	13	3.3%
8	2	2.2%	4	4.0%	1	1.3%	1	5.0%	4	3.9%	12	3.1%
9	2	2.2%	0	0.0%	2	2.7%	0	0.0%	2	2.0%	6	1.5%
10	2	2.2%	4	4.0%	0	0.0%	0	0.0%	0	0.0%	6	1.5%
11 - 15	5	5.4%	3	3.0%	4	5.3%	1	5.0%	3	2.9%	16	4.1%
16 - 20	5	5.4%	4	4.0%	1	1.3%	0	0.0%	3	2.9%	13	3.3%
21 or More	0	0.0%	2	2.0%	1	1.3%	0	0.0%	2	2.0%	5	1.3%
<b>Total</b>	<b>93</b>	<b>100.0%</b>	<b>100</b>	<b>100.0%</b>	<b>75</b>	<b>100.0%</b>	<b>20</b>	<b>100.0%</b>	<b>102</b>	<b>100.0%</b>	<b>390</b>	<b>100.0%</b>