

A total of 230 students taking one or more developmental MAT courses received tutoring services through the Developmental Math Center (DMC) in Spring 2010. As displayed in Table 1, the majority of students (54%) had between one and three sessions at the DMC. On average, these students had 5.9 sessions at the DMC during Spring 2010 with a minimum of one session and a maximum of 43 sessions. Table 2 below depicts the total time spent by the 230 students at the DMC; the majority of which (24%) spent 1 - 2 hours. The 230 students averaged a total of 7.0 hours at the DMC, with a minimum time of 17 minutes and a maximum time of 53 hours over the course of the semester.

Table 1

Number of Sessions at DMC		
Sessions	N	%
1	72	31.3%
2	26	11.3%
3	26	11.3%
4	16	7.0%
5	12	5.2%
6	7	3.0%
7	12	5.2%
8	6	2.6%
9	5	2.2%
10	6	2.6%
11	3	1.3%
12	3	1.3%
13	5	2.2%
14	4	1.7%
16	3	1.3%
17	4	1.7%
18	6	2.6%
19	2	0.9%
21	4	1.7%
22	1	0.4%
23	1	0.4%
25	3	1.3%
28	2	0.9%
43	1	0.4%
<b>Total</b>	<b>230</b>	<b>100.0%</b>

Table 2

Total Hours at DMC		
Total Time	N	%
Less Than 1 Hour	14	6.1%
1 - 2 Hours	56	24.3%
2 - 3 Hours	22	9.6%
3 - 4 Hours	21	9.1%
4 - 5 Hours	22	9.6%
5 - 6 Hours	13	5.7%
6 - 7 Hours	8	3.5%
7 - 8 Hours	7	3.0%
8 - 9 Hours	6	2.6%
9 - 10 Hours	7	3.0%
10 - 11 Hours	5	2.2%
11 Hours or More	49	21.3%
<b>Total</b>	<b>230</b>	<b>100.0%</b>

A total of 753 developmental MAT course grades were distributed to 751 students during the Spring 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

Completion Rates of DEV MAT Courses by DMC Participation						
Grade	DMC		No DMC		Total	
		%		%		%
A	42	18.3%	90	17.2%	132	17.5%
A-	17	7.4%	28	5.4%	45	6.0%
B+	10	4.3%	30	5.7%	40	5.3%
B	17	7.4%	47	9.0%	64	8.5%
B-	19	8.3%	21	4.0%	40	5.3%
C+	10	4.3%	17	3.3%	27	3.6%
C	22	9.6%	34	6.5%	56	7.4%
C-	8	3.5%	12	2.3%	20	2.7%
D+	3	1.3%	10	1.9%	13	1.7%
D	13	5.7%	17	3.3%	30	4.0%
Other	69	30.0%	217	41.5%	286	38.0%
<b>Total</b>	<b>230</b>	<b>100.0%</b>	<b>523</b>	<b>100.0%</b>	<b>753</b>	<b>100.0%</b>
A - C Completion Rate	59.6%		51.1%		53.7%	
A - D Completion Rate	70.0%		58.5%		62.0%	

<sup>1</sup>  $\chi^2=4.451$ ,  $p = .035$  and  $\chi^2=9.243$ ,  $p = .002$ , respectively.

For the 230 MAT grades distributed to students that received DMC services in Spring 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 DEV 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	5	8.5%	2	4.3%	3	7.5%	1	6.3%	3	4.3%	14	6.1%
1 - 2 Hours	9	15.3%	14	30.4%	8	20.0%	8	50.0%	17	24.6%	56	24.3%
2 - 3 Hours	5	8.5%	1	2.2%	6	15.0%	0	0.0%	10	14.5%	22	9.6%
3 - 4 Hours	4	6.8%	4	8.7%	4	10.0%	1	6.3%	8	11.6%	21	9.1%
4 - 5 Hours	4	6.8%	5	10.9%	2	5.0%	2	12.5%	9	13.0%	22	9.6%
5 - 6 Hours	5	8.5%	2	4.3%	2	5.0%	0	0.0%	4	5.8%	13	5.7%
6 - 7 Hours	0	0.0%	4	8.7%	2	5.0%	0	0.0%	2	2.9%	8	3.5%
7 - 8 Hours	2	3.4%	2	4.3%	3	7.5%	0	0.0%	0	0.0%	7	3.0%
8 - 9 Hours	2	3.4%	1	2.2%	1	2.5%	0	0.0%	2	2.9%	6	2.6%
9 - 10 Hours	2	3.4%	0	0.0%	2	5.0%	2	12.5%	1	1.4%	7	3.0%
10 - 11 Hours	4	6.8%	1	2.2%	0	0.0%	0	0.0%	0	0.0%	5	2.2%
11 Hours or More	17	28.8%	10	21.7%	7	17.5%	2	12.5%	13	18.8%	49	21.3%
<b>Total</b>	<b>59</b>	<b>100.0%</b>	<b>46</b>	<b>100.0%</b>	<b>40</b>	<b>100.0%</b>	<b>16</b>	<b>100.0%</b>	<b>69</b>	<b>100.0%</b>	<b>230</b>	<b>100.0%</b>

Table 5

<b>Total DMC Hours by Grouped DEV 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	14	23.7%	16	34.8%	12	30.0%	9	56.3%	21	30.4%	72	31.3%
2	4	6.8%	1	2.2%	8	20.0%	0	0.0%	13	18.8%	26	11.3%
3	8	13.6%	4	8.7%	5	12.5%	1	6.3%	8	11.6%	26	11.3%
4	2	3.4%	5	10.9%	3	7.5%	2	12.5%	4	5.8%	16	7.0%
5	2	3.4%	3	6.5%	2	5.0%	0	0.0%	5	7.2%	12	5.2%
6	4	6.8%	1	2.2%	1	2.5%	0	0.0%	1	1.4%	7	3.0%
7	3	5.1%	4	8.7%	1	2.5%	1	6.3%	3	4.3%	12	5.2%
8	0	0.0%	2	4.3%	3	7.5%	0	0.0%	1	1.4%	6	2.6%
9	2	3.4%	1	2.2%	0	0.0%	1	6.3%	1	1.4%	5	2.2%
10	5	8.5%	0	0.0%	1	2.5%	0	0.0%	0	0.0%	6	2.6%
11 - 15	8	13.6%	2	4.3%	1	2.5%	1	6.3%	3	4.3%	15	6.5%
16 - 20	4	6.8%	3	6.5%	2	5.0%	1	6.3%	5	7.2%	15	6.5%
21 or More	3	5.1%	4	8.7%	1	2.5%	0	0.0%	4	5.8%	12	5.2%
<b>Total</b>	<b>59</b>	<b>100.0%</b>	<b>46</b>	<b>100.0%</b>	<b>40</b>	<b>100.0%</b>	<b>16</b>	<b>100.0%</b>	<b>69</b>	<b>100.0%</b>	<b>230</b>	<b>100.0%</b>