February 3, 2009

TO: Jerry Rosenberg, Dean PSME DivisionFROM: Andrew LaManque, De Anza Research Caitlin Tiffany, Student Assistant

SUBJECT: EnableMath Survey, Fall 2008

A survey of EnableMath students was conducted at the end of the Fall quarter in 2008. A sample of 306 students completed the online survey.

Important highlights include:

- 86% of students reported that this was their first EnableMath class, and 63% of students responded that this was their first math class at De Anza.
- 72% of students spent less than 5 hours working on math outside of class. This response was down from 77% in Fall of 2007.
- 72% of students "agreed" or "strongly agreed" that EnableMath helped them learn more math than they would have without the software.
- 76% of students "agreed" or "strongly agreed" that EnableMath helped improve their grade. This response is up from 72% in Fall of 2007. Also, this result differed as to what grade the student expected to receive in the class. 78% of students who expected to get an A "agreed" or "strongly agreed" that EnableMath helped improve their grade, while 68% of students who expected to get a C or less "agreed" or "strongly agreed" that EnableMath helped improve their grade
- 78% of students "agreed" or "strongly agreed" that they would take another EnableMath class and 80% of students would recommend it to another student. Both of these responses are down from 83% in the Fall of 2007.
- 68% of students "agreed" or "strongly agreed" that taking the CSI was worth their time. This response is up from 62% in Fall of 2007. Also, this response varied by the amount of time that students spent on math homework. 66% of students who spent less than 5 hours a week on math homework "agreed" or "strongly agreed" that taking the CSI was worth their time, whereas 74% of students who spent more than 5 hours a week on math homework "agreed" or "strongly agreed" that taking the CSI was worth their time.
- 71% of students "agreed" or "strongly agreed" that because of the counseling presentation and the CSI that they were more likely to take advantage of college services. This result is up from 63% in Fall of 2006.

• 49% of students "agreed" or "strongly agreed" that the CSI feedback helped them do better in the class. This response is up from 40% in Fall of 2007. Also, this response varied by the amount of time that the student reported they spent on homework. 47% of students who spent less than five hours a week on math work "agreed" or "strongly agreed" that the CSI feedback helped them do better in the class, while 55% of students who spent more than five hours a week on math work "agreed" or "strongly agreed" that the CSI feedback helped them do better in the class

EnableMath End of Class Survey, Fall 2008, De Anza Research

						0 hrs/w outside Num		outside		5-9 hrs outside Num		10 p hrs/w outside Num	eek	To Respo Num	
How many you spend regular cla	doing ma	th outs	(on ave ide of th	rage) d e of the	0	16	5%	203	67%	71	23%	15	5%	305	100%
How many math outsi necessary	de of clas	s/lab d	o you th	ink are	oing	13	4%	130	43%	121	40%	40	13%	304	100%
							N	Yes	Per	Num	No Pe		Respo	nses Per	
_	This is n	ny first	math cla	ass at D	e Anza	College	, ·	191	63%	114	379	% 305	5 1	00%	
_	This is n	ny first	math cla	iss usin	g Enab	leMath	2	263	86%	42	149	% 305	i 1	00%	
Expect a C5 + hrsLess than 5Expect a A in Expect a B in or less in the the classTotalTotalNumPerNumPerNumPerNumPerNumPerNumPerNumPerNumPerNumPer															
125 419	% 100	33%	81	26%	306	100%		86	28	3% 22	20 7	2% 3	06 1	100%	

	Strongly Agree Num Per		Agree Num Per		Disagree Num Per		Strongly Disagree Num Per		Tot Respo	
I felt more engaged using EnableMath software	95	31%	145	47%	57	19%	9	3%	306	100%
EnableMath helped me learn more math than I would have without the software	83	27%	139	45%	67	22%	17	6%	306	100%
EnableMath helped to improve my grade	82	27%	149	49%	60	20%	15	5%	306	100%
I learned some facts from EnableMath that were not presented in the lecture	51	17%	138	45%	102	33%	15	5%	306	100%
I would take another math class with EnableMath	110	36%	130	42%	40	13%	26	8%	306	100%
I would recommend the EnableMath program to other students	112	37%	131	43%	44	14%	19	6%	306	100%
Completing the CSI was worth the time	52	17%	156	51%	69	23%	28	9%	305	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	38	13%	150	49%	94	31%	22	7%	304	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	46	15%	171	56%	66	22%	20	7%	303	100%
I went to see a counselor with questions as a result of the CSI	27	9%	79	26%	146	48%	53	17%	305	100%
The feedback from the CSI helped me to do better in the class	25	8%	125	41%	117	38%	38	12%	305	100%

The following section sorts the results by the students' response to the grade they expect to receive in the class

Expect a A in the class

Onside class Onside class Solubide class Solubide class Outside			-									
How many hours per week (on average) do you spend doing math outside of the of the regular class/fail to outside of the of the of class/fail do you think are necessary to get the grade you want? 11 9% 81 65% 29 23% 4 3% 125 100% How many hours per week (on average) doing math outside of class/fab do you think are necessary to get the grade you want? 11 9% 64 52% 35 28% 14 11% 124 100% Yes Num Per Num Per Num Per Num Per Num Per This is my first math class using EnableMath 118 94% 7 6% 125 100% Expect a A in the class Total Num Per									hrs/we	ek		
you spend doing math outside of the of the regular class/lab doing/ math outside of class/lab do you think are necessary to get the grade you want? 11 9% 81 65% 29 23% 4 3% 125 100% How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want? 11 9% 64 52% 35 28% 14 11% 124 100% Yes Num Per Num Per Num Per Num Per Num Per This is my first math class at De Anza College 92 74% 32 26% 124 100% Expect a A in the class Total 5+hrs Less than 5 100% 125 100% 125 100% 125 100% 33 26% 92 74% 125 100% If the class Total Num Per Num Pe									Num	Per		
math outside of class/lab do you think are necessary to get the grade you want? 11 9% 64 52% 35 28% 14 11% 124 100% Yes No Total Responses Num Per Num Per Num Per Num Per This is my first math class at De Anza College 92 74% 32 26% 124 100% This is my first math class using EnableMath 118 94% 7 6% 125 100% Expect a A in the class Total Num Per Num <t< td=""><td>you spend</td><td>doing math outside of the of the</td><td>11</td><td>9%</td><td>81</td><td>65%</td><td>29</td><td>23%</td><td>4</td><td>3%</td><td>125</td><td>100%</td></t<>	you spend	doing math outside of the of the	11	9%	81	65%	29	23%	4	3%	125	100%
Num Per Num Per Num Per This is my first math class at De Anza College 92 74% 32 26% 124 100% This is my first math class using EnableMath 118 94% 7 6% 125 100% Expect a A in the class Total Num Per Num Per Num Per 125 100% 125 100% 33 26% 92 74% 125 100% 125 100% 125 100% 33 26% 92 74% 125 100% Strongly Agree Agree Disagree Disagree Strongly Disagree Total Responses Num Per Num <td>math outsid</td> <td>de of class/lab do you think are</td> <td>11</td> <td>9%</td> <td>64</td> <td>52%</td> <td>35</td> <td>28%</td> <td>14</td> <td>11%</td> <td>124</td> <td>100%</td>	math outsid	de of class/lab do you think are	11	9%	64	52%	35	28%	14	11%	124	100%
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presentation I am more likely to take advantage of college services2318%6552%2520%1210%125100%I went to see a counselor with questions as a result of the CSI119%3226%5544%2722%125100%The feedback from the CSI helped me to do	completing	the CSI that will help me meet my	16	13%	61	499	% 35	5 28%	6 13	10	% 12	25 100%
result of the CSI 11 9% 32 26% 55 44% 27 22% 125 100% The feedback from the CSI helped me to do	presentatio	on I am more likely to take	23	18%	65	529	% 25	5 20%	6 12	10	% 12	25 100%
The feedback from the CSI helped me to do better in the class1210%4435%4939%2016%125100%			11	9%	6 32	269	% 55	5 44%	6 27	22	% 12	25 100%
			12	10%	6 44	359	% 49	39%	6 20	16	% 12	25 100%

Expect a B in the class

	0 hrs/w outside Num	class		class	5-9 hrs/ outside Num	class	10 p hrs/w outsid	/eek	Resp		es Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	3	3%	62	62%	28	28%	7	7%	100	10	0%
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?			41	41%	46	46%	12	12%	99	10	0%
			Yo	es Pe	er Num	No		tal Resp um	oonses Per	-	
This is my first math class at De A	nza Colleç	ge	61	619	% 39	39	9% 1	100	100%	-	
This is my first math class using E	nableMath	า	86	869	% 14	14	4% 1	100	100%	•	
Expect a B in			ł	5 + hrs nomewo		_ess tha rs home		τ.	4-1		
the class Total Num Per Num Pe	r		N	um	Per N	lum	Per	To Num	tai Pe	er	
	_									_	
100 100% 100 100%	0			35	35%	65	65%	100	1009	<u>%</u>	
	Strongly	Agro		gree	Die	agree		trongly isagree		Tot	al
	Num	Pe		-		0				lum	Per
I felt more engaged using EnableMath software	31	31%	50	509	% 18	3 18%	6	1	1%	100	100%
EnableMath helped me learn more math than I would have without the software	31	31%	5 44	449	% 23	3 23%	6	2	2%	100	100%
EnableMath helped to improve my grade	31	31%	5 47	479	% 18	3 18%	6	4	4%	100	100%
I learned some facts from EnableMath that were not presented in the lecture	18	18%	5 36	369	% 42	2 42%	6	4	4%	100	100%
I would take another math class with EnableMath	38	38%	5 38	389	% 16	6 16%	6	8 8	8%	100	100%
I would recommend the EnableMath program to other students	37	37%	5 42	429	% 16	6 16%	6	5	5%	100	100%
Completing the CSI was worth the time	17	17%	56	569	% 23	3 23%	6	4	4%	100	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	18	18%	5 46	469	% 33	3 33%	6	2	2%	99	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	16	16%	5 56	579	% 22	2 22%	6	4 4	4%	98	100%
I went to see a counselor with questions as a result of the CSI	13	13%	5 27	279	% 46	6 46%	6 1	14 14	4%	100	100%
The feedback from the CSI helped me to do better in the class	10	10%	53	539	% 28	3 28%	6	9 9	9%	100	100%

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Expect a C or less in the class

		outside class ou			5-9 hrs. outside		10 plus hrs/week outside clas		To Resp	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	2	3%	60	75%	14	18%	4	5%	80	100%
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	2	2%	25	31%	40	49%	14	17%	81	100%
			Ye			No	та			
		_	Num	Pe	er Num			otal Resp Ium	Per	
This is my first math class at De An	za Colleç	ge	38	47%	<mark>%</mark> 43	3 5	3%	81	100%	
This is my first math class using En	ableMath	n	59	74%	% 21	2	6%	80	100%	
Expect a C or less in the class Total			ŀ	5 + hrs iomewo		Less tha rs home		То	ital	_
Num Per Num Per			N	um	Per I	Num	Per	Num	Pe	r
81 100% 81 100%				18	22%	63	78%	81	100%	
	Strongly			gree		sagree	D	Strongly Disagree		Total esponses
	Num	Pe	r Num	Pe	er Nur	n Pe	er Nu	Im I	Per N	um Per
I felt more engaged using EnableMath software	22	27%	5 39	48%	% 1	7 21%	6	3	4%	81 100%
EnableMath helped me learn more math than I would have without the software	19	23%	5 38	47%	% 1	9 23%	6	5	6%	81 100%
EnableMath helped to improve my grade	11	14%	5 44	54%	% 2	2 27%	6	4	5%	81 100%
I learned some facts from EnableMath that were not presented in the lecture	11	14%	ь́ 44	54%	% 2	5 31%	6	1	1%	81 100%
I would take another math class with EnableMath	24	30%	5 34	42%	% 1	3 16%	6	10 1:	2%	81 100%
I would recommend the EnableMath program to other students	28	35%	5 33	419	% 1	5 19%	6	5	6%	81 100%
Completing the CSI was worth the time	10	13%	5 44	55%	% 1	6 20%	6	10 1	3%	80 100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	4	5%	ő 43	54%	% 2	6 33%	6	7	9%	80 100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	7	9%	5 0	63%	% 1	9 24%	6	4	5%	80 100%
I went to see a counselor with questions as a result of the CSI	3	4%	ő 20	25%	% 4	5 56%	6	12 1	5%	80 100%
The feedback from the CSI helped me to do better in the class	3	4%	6 28	35%	% 4	0 50%	6	9 1	1%	80 100%

The following section sorts the results by the students' response to the number of hours spent outside the class on homework

Less than 5 hrs homework

	outside class				5-9 hrs/week outside class		10 plus hrs/week outside clas		To Resp		
	Num	n Pe	r Num	Per	Num	Per	Num	Per	Num	Per	
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	16	§ 7%	203	93%					219	100%	
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	12	2 5%	5 123	56%	74	34%	10	5%	219	100%	
		Ye Num	-	Num	No Pe		Respons P	es 'er			
This is my first math class at De Anza Colleg	e	148	67%	72	33%	6 220	100	%			
This is my first math class using EnableMath		192	88%	27	12%	6 219	100	%			
Expect a A in Expect a B in or less in the the class the class class Tot				Less tl hrs hon	nework	Tot	al				
Num Per Num Per Num Per Num	Pe	er		Num	Per	Num	Per				
92 42% 65 30% 63 29% 220	100%	6		220	100%	220	100%				
	Stror Nu	ngly Agre m P	e A er Nur	Agree m Po		agree Pe	Disa	ongly agree F		Total esponse um	es Per
I felt more engaged using EnableMath software	5	9 27	% 11	4 52	% 40	18%	67	3	3% 2	20 10	00%
EnableMath helped me learn more math than I would have without the software	4	9 22	% 10	4 47	% 54	25%	6 13	e	6% 2	20 10	00%
EnableMath helped to improve my grade	4	8 22	% 11	6 53	% 44	20%	6 12	5	5% 2	20 10	00%
I learned some facts from EnableMath that were not presented in the lecture	3	5 16	% 9	7 44	% 75	34%	6 13	6	6% 2	20 10	00%
I would take another math class with EnableMath	7	8 35	% 9	1 41	% 32	15%	6 19	ç	9% 2	20 10	00%
I would recommend the EnableMath program to other students	7	7 35	% 9	6 44	% 34	15%	6 13	6	6% 2	20 10	00%
Completing the CSI was worth the time	3	6 16	% 10	9 50	% 53	24%	6 22	10)% 2	20 10	00%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	2	25 11	% 11	0 50'	% 70	32%	6 14	6	<u>5%</u> 2	219 10	00%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	3	2 15	% 12	3 56'	% 48	22%	6 15	7	7% 2	218 10	00%
I went to see a counselor with questions as a result of the CSI	2	1 10	% 5	4 25	% 108	49%	6 37	17	7% 2	20 10	00%
The feedback from the CSI helped me to do better in the class	1	88	% 8	5 39	% 90	41%	6 27	12	2% 2	20 10	00%

5 + hrs homework

	outside class		1-4 hrs/week outside class				10 plus hrs/week outside clas		To Resp	otal ponses	
	Num	Per	Num	Per	Num	Per	Num	Per			Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?					71	83%	15	17%	86	100	0%
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	1	1%	7	8%	47	55%	30	35%	85	100	0%
	N	Yes Ium	Per		No Per	Total F	Respor	nses Per			
This is my first math class at De Anza Colleg	je	43	51%	42	49%	85	10	00%			
This is my first math class using EnableMath		71	83%	15	17%	86	10	0%			
Expect a C Expect a A in Expect a B in or less in the the class the class class To	tal			5 + home		Tot	al				
Num Per Num Per Num Per Num	Per		_	Num	Per	Num	Pe	r			
33 38% 35 41% 18 21% 86	100%		_	86	100%	86	100%	<u>)</u>			
	Strong Num	ly Agree Pei		gree		igree Pe	Di	rongly sagree m F		Tot Respo Jum	al onses Per
I felt more engaged using EnableMath software	36	42%	5 31	369	% 17	20%	, 0	2 2	2%	86	100%
EnableMath helped me learn more math than I would have without the software	34	40%	5 35	5 419	% 13	15%	, D	4	5%	86	100%
EnableMath helped to improve my grade	34	40%	5 33	389	% 16	19%	, 0	3 :	3%	86	100%
I learned some facts from EnableMath that were not presented in the lecture	16	19%	5 41	489	% 27	31%	, 0	2 2	2%	86	100%
I would take another math class with EnableMath	32	37%	5 39	9 459	% 8	9%	, 0	7 8	8%	86	100%
I would recommend the EnableMath program to other students	35	41%	5 35	5 419	% 10	12%	, 0	6	7%	86	100%
Completing the CSI was worth the time	16	19%	5 47	7 559	% 16	19%	, 0	6	7%	85	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	13	15%	5 40) 479	% 24	28%	, 0	8 9	9%	85	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	14	16%	5 48	3 56°	% 18	21%	, D	5 (6%	85	100%
I went to see a counselor with questions as a result of the CSI	6	7%	5 25	5 299	% 38	45%	<u>ы́</u> 1	6 19	9%	85	100%
The feedback from the CSI helped me to do better in the class	7	8%	5 40) 479	% 27	32%	<u>6</u> 1	1 1:	3%	85	100%