



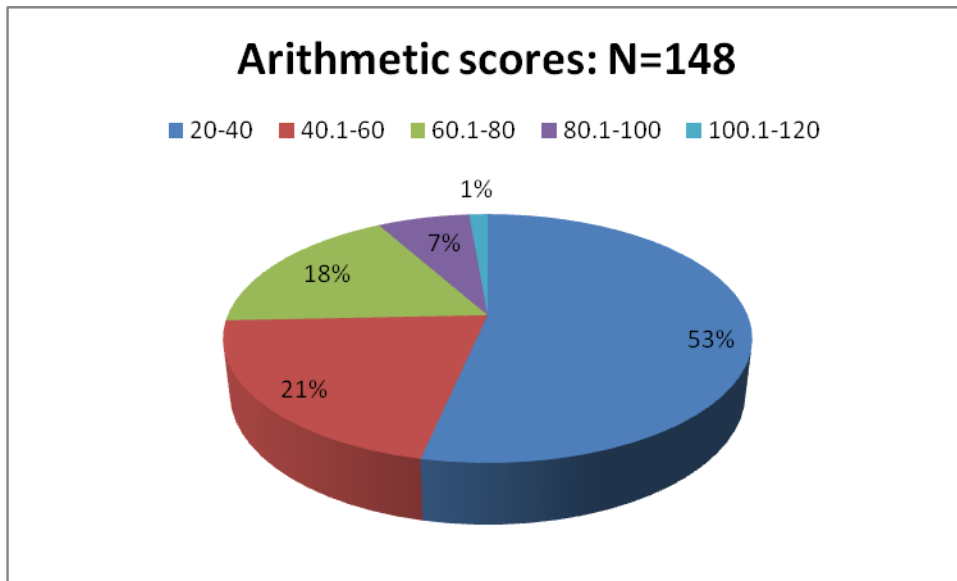
Trinity

Two Year Evaluation of Math Accuplacer Scores

Score Analysis

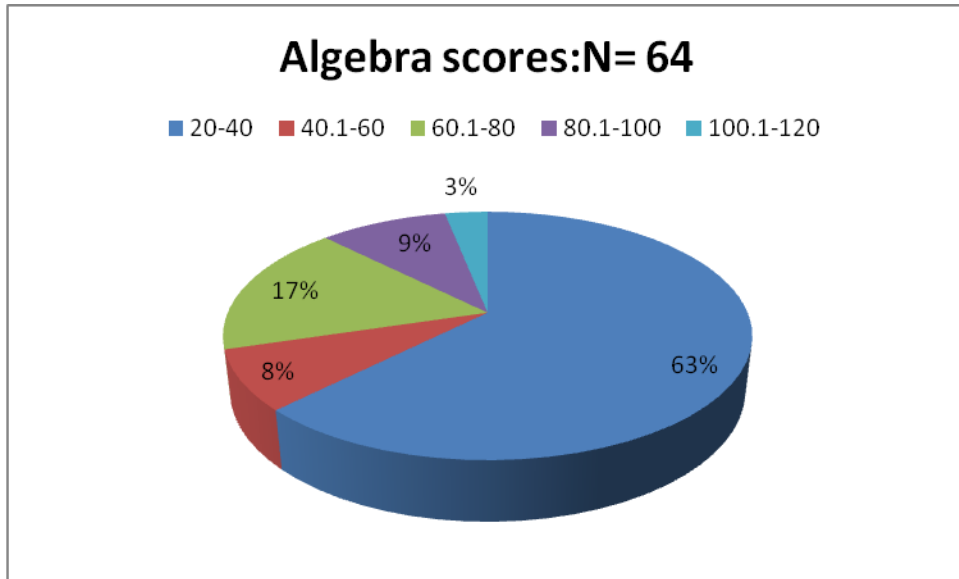
- I. For the period of Spring 2009-Spring 2011, there were 258 unique students who took math courses and took the Accuplacer within this time frame.

Here is a breakdown of the scores for the arithmetic portion of the Accuplacer (for those who had documented scores).



From this chart, we see that over half of students taking the Accuplacer during this two year time frame, have very low basic mathematics skills.

Here is a breakdown of the scores for the algebra portion of the Accuplacer.



This chart shows that over half of students taking the Accuplacer during this two year time frame, also have very low algebraic skills.

Summary point: Mathematics literacy as a whole was low .

Placement Analysis

II. Below was the criteria for placement into Math 100/030, Math 101/101S/060, and Math 109/111 during this time frame.

Arithmetic		Elem Algebra	SPS Placement
70 or higher	AND	41 or higher	MATH 109
70 or higher	AND	40 or lower	MATH 101
69 or lower	AND	40 or higher	recommendation
69 or lower	AND	40 or lower	MATH 100

III. Placement of students according to the above criteria is shown below.

	Math 030/100	Math 060/101	Math 101S	Math 111/109
Number correctly placed	63	4	0	10
Number incorrectly placed	4*	6	3	3

For the most part placements into 100 were good. The * next to the 4 indicates that these students should have technically registered for 101 but may have felt they needed 100 to refresh their memories on the basics.

The placement for 101 was not as good. Six of the nine students enrolled in 101, should have been registered for Math 100. Here are the grades for the five students that were incorrectly placed into Math 101.

Last and First initial	Grade in 101	Arithmetic score	Algebra score
MA	B+	25	N/A
CT	W	38.8	N/A
PA	W	44.5	N/A
HN	B	56.7	N/A
TC	F	63	24
HT	W	29	N/A

Four of these six students who were incorrectly placed failed or withdrew from the course.

For 101S, all three of the students who took it should have been placed into 100 according to the criteria. Here were their grades.

Last and First initial	Grade in 101S	Arithmetic score	Algebra score
HO	W	20.8	
LS	F	66	26
WS	W	27.5	

We can see that all of these students either failed or withdrew, and we see that the two students, who withdrew, have extremely low arithmetic scores.

For 109, placement was not perfect, but was decent. Below are the grades for the 4 students who were incorrectly placed.

Last and First initial	Grade in 109	Arithmetic score	Algebra score
HV	A	70	
HR	B	25.7	N/A
PW	F	32	N/A

Despite incorrect placement, 2 of these 3 students passed the course. Technically HR and PW should have been registered for 100 and HV should have been registered in 101.

Sequence Progression

- IV. Sixty-three of the 258 students (24 %) have not taken a math course since having taken the Accuplacer test (within the time frame of Spring 2009-Spring 2011) and are not enrolled as of yet for a math course for this Fall 2011.

Below is the grade progression for **non-repeaters** taking a sequence of Math courses:

Last & first initial	Math 100/030 grade	Math 101/101S/060 Grade	Math 109/111 grade	Math 110 grade
AS	B	B+		
BR			A	A
BP	D	C+		
BB			A	A
GS	A	skipped course	C+	
HE	A	A	A-	
HN	B	B		
HR			B	B+
HS	F (never retook)	B-	C+	
JT		TR	C	
MJ	A	A	B-	
PA	B	W (registered for this before 100)		
RJ	B+	C		
WT	B	C+		
YM	A	A	B+	

For the most part, students who do well in Math 100, did fairly well in Math 101. Students who did well in 101 seem to drop one letter grade in 109. Students who did well in 109, seem to earn the same or a very similar grade in 110.

16 out of the 194 students who took a math course in the two year time frame had to repeat one or more of their courses (not including students who only took one math course one time and failed). Below is the grade progression for **repeaters** taking a sequence of Math courses.

Last and first Initial	Math 100/030 grade first attempt	Math 100/030 grade second attempt	Math 100/030 grade third attempt	Math 101/101S/060 Grade first attempt	Math 101/101S/060 Grade second attempt	Math 101/101S/060 Grade third attempt	Math 109/111 grade first attempt
BN	D+	B		A-			C
BJ	F	W					
CS	D	W	F				
CT	B			W	D (waited 1.5 years to re-take)		
HS	A-			W			
HK	W	C		W (took CAS class)			
HT	C			W	A		
LB	B-			W			
MA	B+			B+			W
OG				W	W		
RNa	F	C-					F
RNi	D	C-		B+			
SN	F	B		F	W		
WJ	F	F (waited a year to retake)					
WM	W	F (waited a year to retake)					
WS	D	D	A				

10 of these 16 students had to repeat Math 100. Although 7 of these students had to repeat 101(1 of whom also repeated 100), they repeated, not because of failing with a D or F, but because they withdrew. For students who wait 1 year or more to retake Math 100, the end result is often worse.

56 students, all who have only taken one math course one time during the two year time frame, failed or withdrew from the course. Below is an illustration of this.

Last & first initial	Arith Score	Year	Term	Math 100/030 grade	Math 101/101S/060 Grade	Math 109/111 grade	Math 110 grade
BLu		2010	Spring		W		
BG	27	2011	Spring	F			
BL		2010	Spring	W			
CTr	43.3	2009	Summer	W			
CS		2009	Fall	F			
Cli		2010	Spring			W	
CTy	89	2010	Fall			W	
Cla	67	2010	Fall			W	
CA	35	2010	Fall	F			
CE		2010	Spring	F			
DP	38	2010	Fall	F			
DM	91	2011	Fall			D+	
DL		2010	Spring	F			
DD		2010	Spring	F			
FD	68	2010	Summer	F			
FW		2010	Spring		D		
GM		2009	Fall	F			
HO	20.8	2009	Fall		W		
JL	21			F			
JM		2010	Spring			F	
JG		2010	Spring		F		
KC	27	2011	Spring	C-			
KL		2010	Spring		D		
LD		2011	Spring	F			
LS	66	2011	Spring		F		
MT		2009	Fall		F		
MJ	30.7	2010	Fall	F			
MD		2010	Spring		F		
MC		2009	Fall			F	
MS	24	2011	Spring	C-			
NL	23	2011	Spring	W			
NV		2009	Fall		F		
PW	32	2011	Spring			F	
PTi	72	2010	Fall	F			

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PV	29	2010	Fall	W			
PY	29.5	2010	Fall	F			
PTo	23.9	2010	Spring	W			
PA		2009	Fall	F			
RS		2009	Fall			F	
RR		2009	Fall				F
RD		2010	Spring		F		
SLaK		2010	Spring		F		
ST		2010	Spring				W
SLaN	27	2010	Fall	F			
SE	23	2011	Spring	F			
SA		2010	Spring	F			
TD		2010	Spring			W	
TI		2010	Spring		D+		
TC		2010	Spring		F		
WL	25	2011	Spring	D+			
WP		2009	Fall			F	
WM		2011	Spring			F	
WK		2010	Spring	D			
WS	27.5	2009	Fall		W		
WW		2009	Fall	W			
WC	42.3	2009	Fall	F			

The majority of withdraws and non-passing grades occur for Math 100. Math 100 then seems to be a barrier course. It is interesting to note that of the 25 arithmetic scores that are available here, 17 of them fall within the 20-40 range of Accuplacer. This indicates that that a very low arithmetic score, i.e. score within this range, is a good predictor for failure in Math 100.

Appendix-Raw Data for Spring 2009-Spring 2011

Student (includes duplicates)	academic_year	academic_term	event_id	final_grade	test_date	ARITH	ALGE
1	2010	SPRING	MATH 109	C-			
2					11/4/2009	25	
3	2009	FALL	MATH 109	C+			
4	2010	FALL	MATH 100	B	6/5/2009	40	
5	2011	SPRING	MATH 101S	B+	6/5/2009	40	
6	2010	SPRING	MATH 109	A			
7	2011	SPRING	MATH 100	C+	7/13/2010	45	
8					4/9/2011		76
9	2011	SPRING	MATH 100	B-	5/5/2009	38.1	
10					1/5/2010	73	21
11	2009	FALL	MATH 100	B			
12	2010	SPRING	MATH 109	B			
13					12/18/2010	20	21
14	2010	SPRING	MATH 101	W			
15	2009	FALL	MATH 100	D+	5/19/2009	81.9	
16	2010	FALL	MATH 101S	A-	5/19/2009	81.9	
17	2010	SPRING	MATH 100	B	5/19/2009	81.9	
18	2011	SPRING	MATH 109	C	5/19/2009	81.9	
19					11/6/2009	79	
20	2009	FALL	MATH 109	A	7/15/2009		97
21	2010	SPRING	MATH 110	A	7/15/2009		97
22					12/17/2009	71	83
23	2011	SPRING	MATH 100	F	7/24/2010	27	

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24	2011	SPRING	MATH 100	A	1/8/2011		31
25					12/14/2009	25	
26					8/11/2010	23	
27	2011	SPRING	MATH 100	C	10/23/2010	22	25
28					5/14/2011		21
29	2010	FALL	MATH 030	W	12/14/2009	23	
30	2010	SUMMER	MATH 030	F	12/14/2009	23	
31					12/14/2009	28	
32	2010	SPRING	MATH 100	C			
33	2010	FALL	MATH 100	D	4/20/2010	42	
34	2011	SPRING	MATH 101	C+	4/20/2010	42	
35	2010	FALL	MATH 109	A	8/16/2010	42	62
36	2011	SPRING	MATH 110	A	8/16/2010	42	62
37	2009	FALL	MATH 110	A-			
38	2010	SPRING	MATH 110	B+			
39	2010	SPRING	MATH 100	W			
40					8/18/2010	22	31
41	2009	SUMMER	MATH 100	W	4/29/2009	43.3	
42	2010	SPRING	MATH 100	B+			
43	2009	FALL	MATH 100	F			
44	2010	SPRING	MATH 110	B+			
45	2010	SPRING	MATH 110	B			
46					1/16/2009	88.7	68.9
47	2010	SPRING	MATH 109	W			
48	2009	FALL	MATH 100	W	5/8/2009	43.9	
49	2009	SUMMER	MATH	D	5/8/2009	43.9	

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			100				
50	2010	SPRING	MATH 100	F	5/8/2009	43.9	
51	2010	SPRING	MATH 109	B+			
52	2010	FALL	MATH 109	W	6/23/2010	89	46
53					12/15/2009	67	
54					3/12/2009	24.5	
55	2010	FALL	MATH 109	W	7/15/2010	67	72
56					6/26/2010	26	23
57	2010	SPRING	MATH 110	B			
58					12/18/2010	55	26
59	2009	FALL	MATH 101	W	4/15/2009	38.8	
60	2009	SUMMER	MATH 100	B	4/15/2009	38.8	
61	2011	SPRING	MATH 101	D	4/15/2009	38.8	
62	2010	SPRING	MATH 101	W			
63	2010	FALL	MATH 100	A	7/31/2010	52	
64					6/9/2010	55	27
65					8/10/2010	50	68
66	2010	FALL	MATH 100	F	8/19/2010	35	
67	2011	SPRING	MATH 100	A	7/31/2010	63	30
68	2009	FALL	MATH 101	P			
69	2010	SPRING	MATH 100	F			
70	2010	FALL	MATH 100	F	11/23/2009	38	
71	2010	FALL	MATH 109	D+	8/5/2010	91	92
72	2010	SPRING	MATH 110	B			
73	2010	SPRING	MATH 100	F			
74	2010	SPRING	MATH 030	B			

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75					7/31/2010	76	
76	2010	SPRING	MATH 030	F			
77	2010	SPRING	MATH 110	B			
78	2010	SPRING	MATH 060	B-			
79	2010	SPRING	MATH 110	A-			
80	2010	SPRING	MATH 110	A-			
81					4/16/2009	93.7	111.3
82	2010	SUMMER	MATH 030	F	12/14/2009	68	
83	2010	SPRING	MATH 109	C			
84					11/21/2009	68	
85	2010	SPRING	MATH 100	C	11/21/2009	56	
86	2010	FALL	MATH 109	B+	7/27/2010	76	84
87	2010	SPRING	MATH 101	D			
88	2010	SPRING	MATH 101	A			
89	2010	FALL	MATH 100	B+	7/24/2010	89	38
90	2010	SPRING	MATH 109	B			
91	2010	SPRING	MATH 109	B-			
92	2011	SPRING	MATH 100	B	10/23/2010	26	66
93					1/8/2011		80
94					3/11/2011		21
95	2010	SPRING	MATH 109	A			
96	2010	FALL	MATH 100	A	7/24/2010	66	
97	2011	SPRING	MATH 109	C+	7/24/2010	66	
98	2010	SPRING	MATH 100	C			
99					1/8/2011		23
100	2010	SPRING	MATH	A-			

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			110				
101	2009	FALL	MATH 100	F			
102	2009	FALL	MATH 110	B+			
103					4/15/2010	68	
104	2009	FALL	MATH 030	A	2/24/2009	40.1	
105	2010	SPRING	MATH 060	A	2/24/2009	40.1	
106	2011	SPRING	MATH 111	A-	2/24/2009	40.1	
107	2010	SPRING	MATH 030	A			
108	2009	FALL	MATH 101S	W	5/6/2009	20.8	
109	2010	FALL	MATH 100	A-	8/26/2010	30	
110	2011	SPRING	MATH 101	W	8/26/2010	30	
111					9/2/2010	80	36
112					10/30/2009	35	
113	2010	FALL	MATH 101	B	6/26/2009	56.7	
114	2010	SPRING	MATH 100	B	6/26/2009	56.7	
115	2010	SPRING	MATH 100	A			
116	2010	SPRING	MATH 060	C			
117	2010	SPRING	MATH 100	C			
118					1/16/2009	34.2	
119	2010	SPRING	MATH 109	A			
120	2009	FALL	MATH 101S	W	9/28/2010	47	21
121	2009	SPRING	MATH 100	W	9/28/2010	47	21
122	2011	SPRING	MATH 100	C	9/28/2010	47	21
123	2010	SPRING	MATH 100	A			
124	2010	SPRING	MATH 030	A			

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125	2010	SPRING	MATH 100	B+			
126	2010	FALL	MATH 109	B	6/13/2009	25.7	
127	2011	SPRING	MATH 110	B+	6/13/2009	25.7	
128	2010	SPRING	MATH 109	A			
129	2010	SPRING	MATH 060	C			
130					2/11/2009	29.9	
131	2010	SPRING	MATH 110	B+			
132	2009	FALL	MATH 100	C+	6/5/2009	28.9	
133	2010	FALL	MATH 101S	A	10/30/2009	29	
134	2010	SPRING	MATH 100	C	10/30/2009	29	
135	2010	SUMMER	MATH 101	W	10/30/2009	29	
136	2011	SPRING	MATH 109	W	10/30/2009	29	
137	2009	FALL	MATH 101	B-	5/19/2009	74.6	
138	2009	SUMMER	MATH 100	F	5/19/2009	74.6	
139	2010	SUMMER	MATH 109	C+	5/19/2009	74.6	
140	2009	FALL	MATH 110	A-			
141	2010	SUMMER	MATH 101	TR	7/31/2010	41	43
142	2010	SUMMER	MATH 195	TR	7/31/2010	41	43
143	2011	SPRING	MATH 109	C	7/31/2010	41	43
144	2010	SPRING	MATH 109	A			
145					7/31/2010	51	66
146	2010	FALL	MATH 100	F	8/10/2010	21	
147	2010	SPRING	MATH 109	B			
148	2010	SPRING	MATH	B-			

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			109				
149	2010	SPRING	MATH 109	F			
150					4/16/2011		62
151	2010	SPRING	MATH 060	F			
152	2011	SPRING	MATH 100	A	5/6/2009	31.2	
153					4/9/2009	29.1	
154	2010	SPRING	MATH 030	C			
155	2011	SPRING	MATH 100	C-	8/3/2010	27	
156					5/8/2009	36.1	
157	2010	SPRING	MATH 101	D			
158	2010	FALL	MATH 100	B-	5/15/2010	32	40
159	2011	SPRING	MATH 101	W	5/15/2010	32	40
160	2010	SPRING	MATH 101	B-			
161	2011	SPRING	MATH 110	W	8/14/2010	108	89
162					5/15/2010	35	
163					7/16/2010	79	37
164					8/18/2010	34	
165					8/10/2010	26	
166	2010	SPRING	MATH 060	C			
167	2010	SPRING	MATH 109	A			
168	2010	SPRING	MATH 100	F			
169	2011	SPRING	MATH 101S	F	9/27/2010	66	26
170	2010	SPRING	MATH 109	W			
171	2011	SPRING	MATH 100	A	8/19/2010	29	
172	2010	SPRING	MATH 110	A-			
173	2010	SPRING	MATH 060	C+			
174	2010	SPRING	MATH	A-			

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			060				
175					1/8/2011		21
176					12/14/2009	48	
177	2010	SPRING	MATH 111	A	12/14/2009	85	51
178	2010	FALL	MATH 101	B+	12/28/2009	25	
179	2010	SUMMER	MATH 100	B+	12/28/2009	25	
180	2011	SPRING	MATH 109	W	12/28/2009	25	
181					12/14/2009	21	
182					5/29/2009	45.6	
183	2010	SPRING	MATH 109	A-			
184					5/15/2010	61	
185	2010	SPRING	MATH 030	C			
186	2010	SUMMER	MATH 395	TR	7/31/2010	32	21
187	2009	FALL	MATH 101	F			
188	2009	FALL	MATH 100	A			
189	2011	SPRING	MATH 100	B	9/14/2010	21	52
190	2011	SPRING	MATH 100	C	12/18/2010	22	24
191					5/15/2010	25	
192					8/19/2010	38	
193	2010	FALL	MATH 100	F	1/21/2009	30.7	
194	2009	SUMMER	MATH 100	A	4/7/2009	75.3	
195	2010	FALL	MATH 101S	A	4/7/2009	75.3	
196	2011	SPRING	MATH 109	B-	4/7/2009	75.3	
197					7/14/2010	26	
198					8/5/2010	78	
199	2010	SPRING	MATH 060	F			
200	2009	FALL	MATH 109	F			

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201	2011	SPRING	MATH 109	A	10/21/2010	63	85
202	2011	SPRING	MATH 100	C-	7/31/2010	24	
203	2010	SPRING	MATH 109	C			
204	2010	SPRING	MATH 110	B+			
205	2010	SPRING	MATH 110	B+			
206	2010	SPRING	MATH 100	A			
207	2011	SPRING	MATH 100	W	11/10/2010	23	28
208	2009	FALL	MATH 060	F			
209	2009	FALL	MATH 101	W	4/16/2009	88.5	37.9
210	2010	SPRING	MATH 101	W	4/16/2009	88.5	37.9
211	2010	FALL	MATH 110	B+	8/26/2010	99	105
212	2010	SPRING	MATH 110	B			
213					5/19/2009	26.3	
214	2010	SPRING	MATH 030	B+			
215	2011	SPRING	MATH 109	F	4/16/2009	32	
216	2010	SPRING	MATH 101	W	5/5/2009	44.5	
217	2011	SPRING	MATH 100	B	5/5/2009	44.5	
218	2011	SPRING	MATH 109	B-	12/18/2010	80	58
219	2010	SPRING	MATH 110	A-			
220	2010	FALL	MATH 100	F	8/5/2010	72	
221	2010	SPRING	MATH 110	B+			
222	2010	FALL	MATH 030	W	12/14/2009	29	
223	2010	SPRING	MATH 030	C			

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224	2010	FALL	MATH 100	F	2/23/2009	29.5	
225	2010	SPRING	MATH 100	W	4/22/2009	23.9	
226	2010	SPRING	MATH 100	C			
227	2010	SPRING	MATH 030	B+			
228	2009	FALL	MATH 030	F			
229					4/16/2011		36
230	2010	SPRING	MATH 100	C-	12/29/2009	46	
231					12/18/2010	22	22
232	2009	FALL	MATH 109	F			
233	2010	FALL	MATH 100	F	6/4/2010	20	21
234	2011	SPRING	MATH 100	C-	6/4/2010	20	21
235	2009	FALL	MATH 110	F			
236	2010	SPRING	MATH 101	W			
237	2009	FALL	MATH 100	D	3/17/2009	28.1	
238	2010	FALL	MATH 100	C-	3/17/2009	28.1	
239	2011	SPRING	MATH 101	B+	3/17/2009	28.1	
240	2010	SPRING	MATH 109	C			
241	2010	FALL	MATH 100	B+	7/28/2010	68	
242	2011	SPRING	MATH 101	C	7/28/2010	68	
243					11/6/2010	26	22
244	2010	SPRING	MATH 110	B			
245					8/5/2010	20	
246	2010	SPRING	MATH 110	B+			
247	2010	SPRING	MATH 100	B			
248	2010	SPRING	MATH	A			

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			109				
249					5/15/2010	38	31
250	2010	SPRING	MATH 101	F			
251	2010	SPRING	MATH 110	W			
252	2010	FALL	MATH 100	F	8/10/2010	27	
253	2011	SPRING	MATH 100	F	7/31/2010	23	
254	2010	SPRING	MATH 110	A-			
255	2010	SPRING	MATH 100	F			
256					5/8/2009	30.6	
257					4/16/2011		67
258					8/3/2010	51	
259	2010	SPRING	MATH 109	C-			
260	2009	FALL	MATH 101	C			
261	2009	FALL	MATH 100	B	3/26/2009	27.1	
262	2009	SUMMER	MATH 100	F	3/26/2009	27.1	
263	2010	SPRING	MATH 101	F	3/26/2009	27.1	
264	2011	SPRING	MATH 101	W	3/26/2009	27.1	
265	2010	SPRING	MATH 109	C			
266	2010	SPRING	MATH 109	W			
267					4/2/2011		25
268					1/18/2011		27
269					5/25/2010	42	39
270	2009	FALL	MATH 109	A-	7/13/2009		68
271	2010	SPRING	MATH 060	D+			
272	2010	SPRING	MATH 110	A-			
273	2010	SPRING	MATH 110	B+			
274	2010	SPRING	MATH	F			

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			060				
275	2011	SPRING	MATH 100	B-	1/8/2011		21
276	2010	SPRING	MATH 100	A			
277	2010	SPRING	MATH 110	A			
278					7/15/2010	22	21
279	2011	SPRING	MATH 100	D+	11/10/2010	25	31
280	2009	FALL	MATH 109	F			
281	2010	SPRING	MATH 100	F	12/7/2009	28	
282	2011	SPRING	MATH 100	F	12/7/2009	28	
283					8/23/2010	27	
284	2010	FALL	MATH 030	B	12/14/2009	25	
285	2011	SPRING	MATH 060	C+	12/14/2009	25	
286	2009	FALL	MATH 030	W	4/22/2009	30.8	
287	2010	FALL	MATH 030	F	4/22/2009	30.8	
288	2011	SPRING	MATH 101	W	11/10/2010	70	33
289	2010	SPRING	MATH 109	F			
290	2010	SPRING	MATH 100	C			
291					8/16/2010	48	
292	2010	SPRING	MATH 100	D			
293					11/6/2009	57	
294	2009	FALL	MATH 101S	W	4/22/2009	27.5	
295	2009	FALL	MATH 100	W			
296	2010	SPRING	MATH 109	B-			
297	2010	SPRING	MATH 100	C			
298					5/9/2009	29.1	
299	2010	SPRING	MATH	A			

School of Professional Studies

			109				
300	2010	FALL	MATH 100	D	5/15/2010	44	39
301	2010	SUMMER	MATH 100	D	5/15/2010	44	39
302	2011	SPRING	MATH 100	A	5/15/2010	44	39
303	2009	FALL	MATH 100	F	6/3/2009	42.3	
304	2010	FALL	MATH 100	A	8/10/2010	35	27
305	2009	FALL	MATH 100	A	6/24/2009	54	
306	2010	FALL	MATH 109	B+	6/24/2009	54	
307	2010	SPRING	MATH 101	A	6/24/2009	54	
308	2010	SPRING	MATH 100	A			