

STUDENT RATINGS AND COMMENTS  
Autumn 2006 through Autumn 2008  
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Summer 2008 Math 99, Math 102morn, Math 102avo  
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Autumn 2006 Math 80, Math 90, Math 146

## COMMENTARY

All course numbers have been standardized to reflect new numbering as of Academic Year 2008-2009.

### COMMENTS AND ANALYSIS

Within the limits of psychometric quality:

- It would be inappropriate to comment on specific questions, since none have significant variations.
- There is a slight tendency toward improvement, however this tendency is not statistically significant.
- Student satisfaction level is not a problem.

## COMMENTS ON PSYCHOMETRIC TECHNIQUE (second tenure period)

The Student Evaluation Sheets used at the end of each course suffer from a lack of psychometric design. This situation is not unique, since most questionnaires are developed without taking into consideration how measurement works. The net result is that it makes little sense to formally analyze the results, or even to compare the results across different courses.

The problems can be easily corrected by a computer program that reports results using appropriate statistical techniques. Here are the main areas for improvement, in order of importance.

### Standardization of Ratings

Both raw scores (tallies) and percentages are \*non-comparable\*. That is, we cannot make meaningful statements that compare the percentage result on one question to the percentage result on a different question. For example, if 50% of responses to a particular question from one class is "4" and 30% of responses to the same question from another class is "4", it is inaccurate to say that the first class has a "higher" rating than the second. The psychometric issue is that the comparison of measurements (and percentages) is anchored to the \*variation of measurement\* across students, questions, classes, and the set of courses for which the measurements are taken. In the above example, the significance of a "4" rating depends upon the total number of "4" ratings to all questions. If a "4" occurs 80% of the time in the first class, but only 10% of the time in second class, then the first class as a whole is far more generous with the "4" rating. The variation from the norm of +20% in the second class (30% - 10%) is more positive than the variation from the norm of -30% in the first class (50% - 80%), making the 30% rating "higher" than the 50% rating.

Suffice it to say that, for comparison of ratings to be valid, it is necessary to put all scores on the same comparative basis, a mathematical transformation called standardization.

### Minimization of Questions

It has been consistently shown that people differentiate only three or four qualities in ratings. LWTC asks 20 questions, but these questions themselves do not elicit different responses. Have a look at the raw scores; many students just go down one column, answering the same for all questions. This means that, in their minds, the questions are not different! The most elegant solution is to ask just a few essential questions. This makes the measurement process more meaningful, less tedious, and less illusionary. A more sophisticated technique (not necessary for LWTC use of ratings) is to perform a mathematical technique called factor analysis, which empirically groups questions into clusters that measure the same quality.

## Minimization of Categories

It is admirable that we provide only four choices for each question. Two would be better. The issue here is: What are we trying to assess? A general rule is to ask only for information that is used, that is important. To my knowledge, there is no administrative process that actually uses the difference between a "4" rating and a "3" rating, so the distinction is pragmatically meaningless.

Our questions are basically looking for an approve/disapprove distinction. The (artificial) distinction between "strongly approve" and "approve" just serves to obscure what we want to know. This is also confounded with individual student answering styles. The tendency of individuals to have preferred world-views, with regard to ratings, is much stronger than the tendency of individuals to make fine grain distinctions between "++" and "+". So the ratings over four categories tell us more about how people respond to rating questions than about the questions themselves.

## Condensation of Written Responses

Use one written response question, something like "Additional comments (good points, bad points, important messages, etc.)" The questions we ask elicit a type of forced response: what people end up doing is to either not write anything, or to write template garbage. The important point (again) is that it is only meaningful to gather data that makes a difference.

## Summary

There are some simple psychometric principles to follow in constructing questionnaires. That few people are familiar these principles is no excuse to ignore them. Importantly, each principle can be directly observed simply by looking at the responses!

- 1) Ask only what you want to know about. Before asking, ask yourself what each response would mean. Ask only questions for which different responses will result in different (administrative) actions.
- 2) Ask minimally.
- 3) Respect the nature of statistical results.

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## CUMULATIVE RATINGS

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### STUDENT RATINGS -- CUMULATIVE OVER ALL QUESTIONS

#### QUARTER AVERAGES

<u>Quarter</u>	<u>N</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>Average</u>
Autumn 2008						
Summer 2008						
Spring 2008	53	71	25	4	0	3.7
Winter 2008	18	84	15	1	-	3.8
Autumn 2007	n/a					
Summer 2007	n/a					
Spring 2007	25	72	25	3	0	3.7
Winter 2007	33	78	19	2	1	3.7
Autumn 2006	43	64	35	1	-	3.6

#### COURSE AVERAGES

<u>Course</u>	<u>Repetitions</u>	<u>N</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>Average</u>
M80	2	22	65	31	3	1	3.6
M90	9-4 = 5	53	75	23	2	-	3.7
M99	8-2 = 6						
M102	5						
M107	2						
M141	1	9	65	29	6	-	3.6
M146	1	13	64	35	1	-	3.6

#### GRAND AVERAGE

All      28-6 = 22

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CUMULATIVE RATINGS OVER ALL QUESTIONS -- BY COURSE

<u>Course</u>	<u>Quarter</u>	<u>N</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>Average</u>
M99	Autumn 2008						
M102	Autumn 2008						
M107	Autumn 2008						
M99	Summer 2008						
M102morn	Summer 2008						
M102avo	Summer 2008						
M90	Spring 2008	13	77	18	5	0	3.7
M99	Spring 2008	15	82	16	2	0	3.8
M102	Spring 2008	15	57	37	5	1	3.5
M107	Spring 2008	10	68	27	4	1	3.6
M90avo	Winter 2008	n/a					
M90eve	Winter 2008	7	92	7	1	-	3.9
M99	Winter 2008	11	76	22	2	0	3.7
M90avo	Autumn 2007	n/a					
M90eve	Autumn 2007	n/a					
M99	Autumn 2007	n/a					
M90	Summer 2007	n/a					
M99	Summer 2007	n/a					
M102	Summer 2007	n/a					
M90	Spring 2007	3	67	33	-	-	3.7
M99	Spring 2007	13	83	15	2	0	3.8
M141	Spring 2007	9	65	29	6	-	3.6
M80	Winter 2007	9	73	21	4	2	3.6
M90	Winter 2007	13	70	27	3	-	3.7
M99	Winter 2007	11	90	10	-	-	3.9
M80	Autumn 2006	13	58	40	2	-	3.6
M90	Autumn 2006	17	68	31	1	-	3.7
M146	Autumn 2006	13	64	35	1	-	3.6

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CUMULATIVE RATINGS OVER ALL QUESTIONS -- BY COURSE REPETITION

FIRST TIME TEACHING AVERAGES

<u>Course</u>	<u>Quarter</u>	<u>N</u>	4	3	2	1	<u>Average</u>
M80	Autumn 2006	13	58	40	2	-	3.6
M90	Autumn 2006	17	68	31	1	-	3.7
M99	Winter 2007	11	90	10	-	-	3.9
M102	Summer 2007	n/a					
M107	Spring 2008	10	68	27	4	1	3.6
M141	Spring 2007	9	65	29	6	-	3.6
M146	Autumn 2006	13	64	35	1	-	3.6

SECOND TIME TEACHING AVERAGES

							<u>Average</u>	<u>Difference</u>
M80	Winter 2007	9	73	21	4	2	3.6	0
M90	Winter 2007	13	70	27	3	-	3.7	0
M99	Spring 2007	13	83	15	2	0	3.8	-.1
M102	Spring 2008	15	57	37	5	1	3.5	n/a
M107	Autumn 2008							

REPETITION AVERAGES (THIRD and following repetitions)

<u>Course</u>	<u>Repetitions</u>	<u>N</u>	4	3	2	1	<u>Average</u>	<u>Difference</u>
M90	7-4 = 3	23	79	19	2	0	3.8	+.1
M99	6-2 = 4							
M102	3							

REPETITION AVERAGES (all courses taught more than once)

First time	51	71	27	2	0	3.7
Second time						
>1 repetition						
>2 repetitions						

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## CUMULATIVE QUESTION RATINGS

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### RATINGS QUESTION AVERAGES -- BY QUARTER

Three 5-unit courses per quarter.  
 Responses to 20 questions, rating average.

<u>Question</u>	N=43 A06	N=33 W07	N=25 S07	n/a Su07	n/a A07	N=18 W08	N=53 S08	N= Su08	N= A08
well-prepared	3.6	3.8	3.6			3.8	3.7	3.	3.
clear goals	3.5	3.9	3.7			3.9	3.6	3.	3.
syllabus	3.5	3.8	3.8			3.9	3.6	3.	3.
explain grade	3.6	3.8	3.6			3.9	3.7	3.	3.
on time	3.6	3.7	3.7			3.9	3.8	3.	3.
knowledge	3.8	3.8	3.8			4.0	3.8	3.	3.
enthusiasm	3.6	3.7	3.8			4.0	3.8	3.	3.
assist	3.8	3.9	3.9			4.0	3.8	3.	3.
examples	3.5	3.6	3.7			3.8	3.6	3.	3.
different ways	3.4	3.4	3.5			3.6	3.5	3.	3.
different needs	3.6	3.5	3.6			3.7	3.5	3.	3.
participation	3.6	3.6	3.5			3.6	3.6	3.	3.
listened	3.7	3.8	3.9			3.7	3.7	3.	3.
good feeling	3.7	3.8	3.8			4.0	3.7	3.	3.
respect	3.9	3.9	4.0			4.0	3.9	3.	3.
related tests	3.6	3.8	3.6			3.9	3.7	3.	3.
careful tests	3.5	3.6	3.5			3.9	3.6	3.	3.
timely tests	3.6	3.6	3.6			3.8	3.7	3.	3.
useful	3.4	3.6	3.6			3.8	3.3	3.	3.
I learned	3.5	3.6	3.6			3.7	3.5	3.	3.
<b>AVERAGE</b>	3.6	3.7	3.7			3.8	3.7	3.	3.

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### RATINGS QUESTION CUMULATIVE -- BY COURSE

Nine quarters (Autumn 2006 - Autumn 2008), only courses taught more once.  
 Responses to 20 questions, in percent of respondents.

<u>Question</u>	M80 (2) N=22					M90 (5) N=					M99 (6) N=				
	4	3	2	1	<u>Ave</u>	4	3	2	1	<u>Ave</u>	4	3	2	1	<u>Ave</u>
well-prepared	59	35	6		3.5	67	31	2		3.6					
clear goals	62	34	4		3.6	79	20	1		3.8					
syllabus	70	30			3.7	77	23			3.8					
explain grade	70	30			3.7	73	27			3.7					
on time	70	30			3.7	85	13	2		3.8					
knowledge	70	30			3.7	85	15			3.8					
enthusiasm	66	34			3.7	79	19	2		3.8					
assist	81	15	4		3.8	91	7	2		3.9					
examples	65	25	10		3.6	80	15	3	2	3.7					
different ways	42	40	13	5	3.2	51	40	9		3.4					
different needs	68	21	6	5	3.5	76	19	5		3.7					
participation	48	52			3.5	78	20	2		3.7					
listened	68	32			3.7	82	18			3.8					
good feeling	73	21	6		3.7	81	19			3.8					
respect	81	19			3.8	94	6			3.9					
related tests	40	35	5		3.4	65	33	2		3.6					
careful tests	56	44			3.6	66	34			3.7					
timely tests	72	28			3.7	73	25	2		3.7					
useful	60	29	0	11	3.4	60	33	7		3.5					
I learned	58	27	15		3.4	64	32	2		3.6					
<b>AVERAGE</b>	<b>65</b>	<b>31</b>	<b>3</b>	<b>1</b>	<b>3.6</b>	<b>75</b>	<b>23</b>	<b>2</b>		<b>3.7</b>					

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RATINGS QUESTION CUMULATIVE -- BY COURSE

Nine quarters (Autumn 2006 - Autumn 2008), only courses taught more once.  
Responses to 20 questions, in percent of respondents.

<u>Question</u>	M102 (5) N=					M107 (2) N=				
	4	3	2	1	<u>Ave</u>	4	3	2	1	<u>Ave</u>
well-prepared										
clear goals										
syllabus										
explain grade										
on time										
knowledge										
enthusiasm										
assist										
examples										
different ways										
different needs										
participation										
listened										
good feeling										
respect										
related tests										
careful tests										
timely tests										
useful										
I learned										
 AVERAGE										

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RATINGS QUESTION CUMULATIVE -- ACADEMIC 2008-2009 BY QUARTER

Three 5-unit courses per quarter.

Responses to 20 questions, in percent of respondents.

<u>Question</u>	N= Autumn 2008	N= Winter 2009	N= Spring 2009	N= Summer 2009
	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1
well-prepared				
clear goals				
syllabus				
explain grade				
on time				
knowledge				
enthusiasm				
assist				
examples				
different ways				
different needs				
participation				
listened				
good feeling				
respect				
related tests				
careful tests				
timely tests				
useful				
I learned				

AVERAGE

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RATINGS QUESTION CUMULATIVE -- ACADEMIC 2007-2008 BY QUARTER

Three 5-unit courses per quarter (4 in Spring 2008, 2 in Winter 2008).  
 Responses to 20 questions, in percent of respondents.

Question	n/a				N=18				N=53				N=			
	Autumn 2007				Winter 2008				Spring 2008				Summer 2008			
	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared					82	18			69	29	2					
clear goals					87	13			65	33	2					
syllabus					87	13			65	33	2					
explain grade					91	9			70	28	2					
on time					91	9			79	21						
knowledge					100				83	15	2					
enthusiasm					95	5			82	18						
assist					100				80	18	2					
examples					87	9	4		70	24	4	2				
different ways					54	37	9		63	24	13					
different needs					76	18	6		65	22	13					
participation					58	42			64	34	2					
listened					72	28			74	26						
good feeling					95	5			71	29						
respect					100				86	14						
related tests					91	9			68	30	2					
careful tests					86	14			64	31	3					
timely tests					82	18			69	29	2					
useful					80	16	4		55	26	13	6				
I learned					70	30			61	32	5	2				
<b>AVERAGE</b>					<b>84</b>	<b>15</b>	<b>1</b>	<b>-</b>	<b>71</b>	<b>25</b>	<b>4</b>	<b>0</b>				

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RATINGS QUESTION CUMULATIVE -- ACADEMIC 2006-2007 BY QUARTER

Three 5-unit courses per quarter.

Responses to 20 questions, in percent of respondents.

Question	N=43				N=33				N=25				n/a			
	Autumn 2006				Winter 2007				Spring 2007				Summer 2007			
	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared	58	42			80	20			59	38	3					
clear goals	58	37	5		87	13			74	26						
syllabus	53	47			79	21			83	17						
explain grade	65	35			79	18	3		67	29	4					
on time	64	36			87	10	3		72	28						
knowledge	79	21			81	19			85	11	4					
enthusiasm	64	36			76	21	3		90	7		3				
assist	81	16	3		90	10			93	7						
examples	55	42	3		81	9	6	3	67	33						
different ways	44	47	9		58	30	8	4	55	41	4					
different needs	63	34	3		68	20	8	4	70	26	4					
participation	61	39			63	37			56	40	4					
listened	73	27			85	15			91	9						
good feeling	74	26			87	9	4		76	24						
respect	91	9			88	12			96	4						
related tests	60	40			80	16	4		61	36	3					
careful tests	54	46			62	38			59	36	5					
timely tests	61	39			69	28	3		79	16	5					
useful	50	42	8		67	26	7		61	35	4					
I learned	51	46	3		72	18	10		65	35						
<b>AVERAGE</b>	<b>64</b>	<b>35</b>	<b>1</b>	<b>-</b>	<b>78</b>	<b>19</b>	<b>2</b>	<b>1</b>	<b>72</b>	<b>25</b>	<b>3</b>	<b>0</b>				

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## RAW SCORES

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### AUTUMN 2008 STUDENT RATINGS RAW SCORES

Responses to 20 questions, in percent of respondents.

<u>Question</u>	M99 N=				M102 N=				M107 N=			
	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared												
clear goals												
syllabus												
explain grade												
on time												
knowledge												
enthusiasm												
assist												
examples												
different ways												
different needs												
participation												
listened												
good feeling												
respect												
related tests												
careful tests												
timely tests												
useful												
I learned												

AVERAGE

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SUMMER 2008 STUDENT RATINGS RAW SCORES

Responses to 20 questions, in percent of respondents.

<u>Question</u>	M99 N=				M102morn N=				M102avo N=			
	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared												
clear goals												
syllabus												
explain grade												
on time												
knowledge												
enthusiasm												
assist												
examples												
different ways												
different needs												
participation												
listened												
good feeling												
respect												
related tests												
careful tests												
timely tests												
useful												
I learned												
AVERAGE												

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SPRING 2008 STUDENT RATINGS RAW SCORES

Responses to 20 questions, in percent of respondents.

<u>Question</u>	M90 N=13				M99 N=15				M102 N=15				M107 N=10			
	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared	69	23	8		87	13			60	40			60	40		
clear goals	85	15			79	21			47	47	7		50	50		
syllabus	85	15			80	20			47	47	7		50	50		
explain grade	85	15			80	20			47	40	13		60	30	10	
on time	100				87	13			60	40			70	30		
knowledge	92	8			86	14			73	20	7		80	20		
enthusiasm	85	15			92	8			71	29			80	20		
assist	83	8	8		93	7			67	33			78	22		
examples	77	8	8	8	79	21			47	47	7		80	20		
different ways	54	23	23		77	8	15		60	27	13		60	40		
different needs	62	23	15		69	15	15		64	21	14		60	30	10	
participation	69	23	8		57	43			60	40			70	30		
listened	77	23			79	21			60	40			80	20		
good feeling	77	23			79	21			57	43			70	30		
respect	100				87	13			80	20			78	22		
related tests	58	33	8		93	7			60	40			60	40		
careful tests	58	42			93	7			53	33	13		60	40		
timely tests	75	25			86	14			53	47			60	30	10	
useful	58	25	17		67	27	7		57	21	7	14	33	33	22	11
I learned	62	38			86	14			47	47	7		60	20	20	
<b>AVERAGE</b>	<b>77</b>	<b>18</b>	<b>5</b>	<b>0</b>	<b>82</b>	<b>16</b>	<b>2</b>	<b>-</b>	<b>57</b>	<b>37</b>	<b>5</b>	<b>1</b>	<b>68</b>	<b>27</b>	<b>4</b>	<b>1</b>

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WINTER 2008 STUDENT RATINGS RAW SCORES

Responses to 20 questions, in percent of respondents.

<u>Question</u>	M90avo n/a				M90eve N=7				M99 N=11			
	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared					100				64	36		
clear goals					100				73	27		
syllabus					100				73	27		
explain grade					100				82	18		
on time					100				82	18		
knowledge					100				100			
enthusiasm					100				91	9		
assist					100				100			
examples					83	17			91		9	
different ways					71	29			36	45	18	
different needs					86	14			67	22	11	
participation					71	29			45	55		
listened					71	29			73	27		
good feeling					100				91	9		
respect					100				100			
related tests					100				82	18		
careful tests					100				73	27		
timely tests					100				64	36		
useful					86		14		73	18		9
I learned					86	14			55	45		
<b>AVERAGE</b>					92	7	1	-	76	22	2	0

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AUTUMN 2007 STUDENT RATINGS RAW SCORES n/a

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SUMMER 2007 STUDENT RATINGS RAW SCORES n/a

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SPRING 2007 STUDENT RATINGS RAW SCORES

Responses to 20 questions, in percent of respondents.

Question	M90 N=3				M99 N=13				M141 N=9			
	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared	33	67			77	15	8		67	33		
clear goals	67	33			85	15			67	33		
syllabus	67	33			92	8			88	13		
explain grade	33	67			92	8			75	13	13	
on time	67	33			92	8			56	44		
knowledge	67	33			100				89		11	
enthusiasm	100				85	8	8		86	14		
assist	100				100				78	22		
examples	100				62	38			38	38	25	
different ways	33	67			62	31	8		50	25	25	
different needs	100				77	23			33	56	11	
participation	33	67			54	46			22	67	11	
listened	100				85	15			89	11		
good feeling	67	33			85	15			75	25		
respect	100				100				89	11		
related tests	33	67			77	15	8		75	38		[sic]
careful tests	67	33			62	23	15		38	63		
timely tests	67	33			100				71	14	14	
useful	33	67			85	15			67	22	11	
I learned	67	33			92	8			38	63		
AVERAGE	67	33	-	-	83	15	2	0	65	29	6	-

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WINTER 2007 STUDENT RATINGS RAW SCORES

Responses to 20 questions, in percent of respondents.

<u>Questions</u>	M80 N=9				M90 N=13				M99 N=11			
	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared	89		11		69	31			82	18		
clear goals	78	22			83	17			100			
syllabus	78	22			69	31			91	9		
explain grade	78	22			58	33	8		100			
on time	78	22			83	8	8		100			
knowledge	78	22			85	15			80	20		
enthusiasm	78	22			62	31	8		90	10		
assist	78	22			92	8			100			
examples	78	11	11		77	15	8		91		9	
different ways	44	33	11	11	54	38	8		82	18		
different needs	67	11	11	11	69	23	8		73	27		
participation	44	56			62	38			82	18		
listened	78	22			85	15			91	9		
good feeling	78	11	11		85	15			100			
respect	78	22			85	15			100			
related tests	89		11		69	31			90	20		[sic]
careful tests	67	33			46	54			82	18		
timely tests	67	33			62	31	8		91	9		
useful	67	11		22	54	46			80	20		
I learned	56	22	22		62	31	8		100			
<b>AVERAGE</b>	<b>73</b>	<b>21</b>	<b>4</b>	<b>2</b>	<b>70</b>	<b>27</b>	<b>3</b>	<b>-</b>	<b>90</b>	<b>10</b>	<b>-</b>	<b>-</b>

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AUTUMN 2006 STUDENT RATINGS RAW PERCENTAGE SCORES

Responses to 20 questions, in percent of respondents.

<u>Question</u>	M80 N=13				M90 N=17				M146 N=13			
	4	3	2	1	4	3	2	1	4	3	2	1
well-prepared	31	69			65	35			77	23		
clear goals	46	46	8		59	35	6		69	31		
syllabus	62	38			65	35			31	69		
explain grade	62	38			82	18			50	50		
on time	62	38			76	24			54	46		
knowledge	62	38			82	18			92	8		
enthusiasm	54	46			53	47			85	15		
assist	77	15	8		82	18			85	15		
examples	54	38	8		65	35			46	54		
different ways	38	46	15		47	41	12		46	54		
different needs	62	31		8	65	35			62	38		
participation	54	46			59	41			69	31		
listened	58	42			75	25			85	15		
good feeling	69	31			76	24			77	23		
respect	85	15			88	12			100			
related tests	31	69			65	35			83	25		[sic]
careful tests	46	54			59	41			58	42		
timely tests	77	23			65	35			42	58		
useful	54	46			64	29	6		33	50	17	
I learned	62	31	8		59	41			31	69		
<b>AVERAGE</b>	<b>58</b>	<b>40</b>	<b>2</b>	<b>-</b>	<b>68</b>	<b>31</b>	<b>1</b>	<b>-</b>	<b>64</b>	<b>35</b>	<b>1</b>	<b>-</b>

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## WRITTEN COMMENTS

\*Every\* written student comment on four questions is included:

- What did you like best about the instructor?
- What do you think the instructor could do to improve his/her teaching?
- How did this course improve your preparation for your career or academic goals?
- Please write any additional comments.

Comments have been recorded as written, with no editing of spelling, grammar, etc.

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WRITTEN COMMENTS      2008-2009      ACADEMIC YEAR

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Math99    AUTUMN 2008    N=

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Best

Can Improve

Career

Other

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Math102    AUTUMN 2008    N=

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Best

Can Improve

Career

Other

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Math107    AUTUMN 2008    N=

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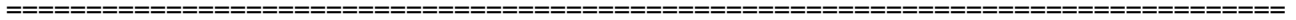
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Best

Can Improve

Career

Other



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WRITTEN COMMENTS      2007-2008      ACADEMIC YEAR

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Math99      SUMMER 2008      N=9

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Best

- Worked with students individually
- He successfully maintained good learning environment in the class. Explained all material so it is as easy to understand as possible. He gave a lot of 1 on 1 attention to all students. Always offered extra help if needed.
- He allows me to learn at my speed & ability This invaluable in an instructor. Thank you.
- Highly intelligent and easy to talk to.
- Structure of class
- His enthusiasm for Math! It is infectious-
- He did a lot of one on one with his students.
- He provided a bacround history about the subject material and gave good examples of practical application.

Can Improve

- It is already great.
- Structured lecturing could be nice.
- If anything, perhaps a handout at the beginning of the course with equations and formulas on it.
- Teach class online - videotape lectures
- Nothing
- Not much.

Career

- It helped solidify my understanding of basic algebra
- It prepared me for the next level class -107 so I can go on with my education pursuing a 4 year degree.
- The instructor allows time for learning each chapter
- Eh, I'm sure I'll figure that out later.
- Allowed me to not be afraid of math.
- I am more knowledible now.
- It helps me complete required math credits for college.

Other

- Mr. W. Bricken is the only teacher that ever thouth me math could be easy and very simple. I finally get it.
- Shweet XD
- Very intelligent, very understanding, very accommodating. Thank you!



- I like the teaching style that is used, because it focuses on the student, and the individual learning style that benefits them the most.
- 
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Math102morn SUMMER 2008 N=20

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### Best

- His manner and his knowledge
- He knows what he is talking about and is interesting to listen to. I especially liked when he would go off on a rant and related it to the course work.
- The teaching method
- How knowledgeable he is
- that he actually cared if we did/didn't have enthusiasm for the subject. It was apparent our interest made him happier. He was also patient and understanding and used a lot of examples to simplify complex ideas.
- The projects as groups
- his teaching style and enthusiasm for the subject. He is very knowledgeable.
- The outline of the class, was perfect. Each topic had its own section. The classroom was not intense for learning unfamiliar math. Its a good idea to get into groups, that way everybody can put there inputs and also help each other out. The course was presented at the beginning of the quarter and follow till the end. Very nice teacher. Lots of energy in math.
- His incredible knowledge of the subject. and he wears sandals to work.
- Was laid back and he was informative!
- That he was very knowledgeable in the subject and was also very excited when explaining the material. he was able to make the presentation understandable when he was explaining
- He's kind & respect all students.
- After the lecture he would come sit down with us and help us out

### Can Improve

- dumb it down more - need more basic info to understand concepts
- not a lot, maybe, I don't really have any suggestions
- Keep doing projects
- Sometimes he can get a bit too technical and it is hard to follow.
- Not used the textbook.
- Adapt teaching styles better to fit the students learning styles.
- try to simplify for students that don't understand.
- get some more visual aids to help him explain
- Voice
- try not to explain it like we already know it.

### Career

- it taught me skills for solving equations and how to find solutions for unknown problems. I feel I gained a good amount of knowledge in this course.
- This course was useless to me.

- showed me how to think more systematically
- it helped me satiate my last math credit
- Better Knowledge of Math
- I really don't see how Math 102 will help me in my new career.
- It open me to different types of math, that is related to our everyday life. Its all around us and knowing how to read things that include, scales,... etc. and make the relationship.
- I learned a lot. nothing will help me in my career field but I learned a lot.
- it didn't!
- it helped me
- it would make no difference if I ended up not taking it

#### Other

- Math 99 as a pre-requisite would have been advisable
- Mr. Bricken is a good teacher. enthusiastic and smart
- While I can see how this class can be helpful in some fields, for mine I felt this was a waste of time and money for me.
- great class, enjoy the pace.
- Nice work
- Great instructor, that treat you like an adult
- Thank you Mr. Bricken. I always enjoy your class. You are a good teacher.
- good job!

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Math102avo SUMMER 2008 N=14

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#### Best

- He puts emphasis on actually learning the material, rather than just going through the motions doing busy work. He gets really excited talking about math, and he explains it in a way that gets me excited to learn it.
- Informative, interesting, not boring.
- Very friendly and was very knowledgeable about the course. Very high credibility.
- Very prepared. Knowledgeable. Always willing to help.
- He was willing to listen to my questions and take time to answer them.
- He's a personable individual
- Friendly, and easy going
- He was very organized, helpful and enthusiastic.
- He is nice, prepared well.
- All

#### Can Improve

- Not much really
- Class was fine as instructed.
- Nothing.
- ?

### Career

- Taught us to present material in front of the class about things we weren't originally familiar with.
- Helped me finish!!
- Helped me see math differently
- It made me think about Math that we see and use every day.
- yes

### Other

- Mr. Bricken is a great teacher!
- Very enjoyable class.

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Math90 SPRING 2008 N=13

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### Best

- Very patient with me when explaining math problems to me that I would have difficulty understanding. Explained things very well.
- was willing to leave time to do teaching w/ each individual.
- friendly & communicates well - (understandable, understands us).
- I loved his unique teaching style. I was able to work in my own pace but still get 1 on 1 help every class. I found this much more useful and helpful than teachers who lecture the whole quarter.
- He is very great personality. VERY understanding, very helpful, very patient. He was very patient & explain very clearly & carefully. Thank you so much!
- The different ways to achieve the course goals. High quality of knowledge shown on a separate comments of a every student's work and ability to see everyones skill level. I think that is very important for every classes.
- Mr. Bricken a great instructor. His explanations were very clear to understand 100%. He respect each student and pay as much attention as they needed.
- well, for one there were no tests, so I really liked that, but he really described how to do the material very well.
- His willingness to be patient with me while the ideas of algebra sank in. I also appreciated William's class style: teach the material for an hour, then walk around to individually help the students.
- Mr. Bricken is very articulate when speaking.
- Teaching stlye

### Can Improve

- Do more lecturing and lecture slower.
- N/A
- little more lecture
- No need for improvement, all is well!
- nothing!

- Be the same way!
- Nothing. Just follow the path that he sued to.
- No coments
- Nothing.
- Sing & dance the Polka?! William is an awesome instructor, and I'm planning on taking my next math course with him. His instruction is clear, he's patient and not patronizing.
- Structure the class moderately.

### Career

- I am ready and cofident for math 99!!
- This class helped me a lot. I've taken many algebra classes and struggled through the whole quarter, not understanding anything in the end. But being able to work in my own pace, and getting help when needed, really helped me learn & succeed.
- Helped me understand my math skills/issues and how to solve the issues I did have at the beginning of the course.
- excellent
- Now I could take a higher level of math and I would know that I didn't miss anything. Which is good, because I don't need to review all the courses that i have missed.
- Thank you 100%
- Just made me 5 more credits to completing my degree.
- Caught me up so I can take the "college level" course to complete my AA.
- we'll see
- didn't gen ed

### Other

- Great teacher!
- I very very liked teaching skills!
- God bless you theacher. Thank you so much, best wishes in the world
- I'm really proud of what kind of class I choose and when the next quarter starts I will choose the same instructor for Math 99.
- Everything was just perfect!!!
- The instructor has a very unique way of teaching and I'd recommend other teachers could learn form him.

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Math99 SPRING 2008 N=16

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### Best

- He made it a one on one learning which helped increase my knowledge of the subject.
- Explaining to you, if you ask any question related to mathematics
- one-on-one help w/ math assignments
- William was very considerate when it came to listening to coarse related material and questions. He has a very calming demeener that lightens the mood and makes you feel more level headed about the material. He also had a great way of teaching the material that made more sense than teachers I've had in the past.

- Individualized his teachings
- When he goes around to help you.
- (1) Understanding that students in class were at different proficiency levels and was able to work with each student to achieve success. (2) Gave wonderful overview of subject matter and made analogies to real world scenarios/problems. (3) Provided as much one-on-one student help as was necessary
- He was prepared for class every day and was always will to help me when I needed it
- Working one and one with students that help me understand better.
- His style in assignments.
- I liked that my instructor talked to me one on one.
- I enjoyed the teaching style
- I liked Mr. Bricken's attitude toward math. He taught the curriculum in an understandable way which is really difficult to do in math. I was never intimidated to ask a question because he listens to the problem and helps you solve it in a way you can comprehend, even if that meant approaching the problem in a different way than the book did.
- I like the way of his teaching. He really patient for student. He always respect our idea and never made students feel embarassing if we did some math problem wrong
- I liked his teaching style. He would lecture then individually work with the students.
- I like the one on one he did when he finished giving the lesson. Coming and sitting down with me was super helpful.

### Can Improve

- is excellent
- different teaching styles
- Nothing
- This is a boring question.
- Slow down a little bit when explaing
- The math books need Mr. Bricken to right them to make them more user friendly
- He should maintain his interest on working with students and knowing their weakness. Then solutions can be done if a problem is found.
- nothing comes to mind.
- I would have liked to talk to him more about my progress in the class. I felt that the teacher should have explained the concepts in various ways to fit peoples various learning styles.
- Nothing keep him the way he is!
- nothing
- Most student doesn't show up in the class much, he could do something to make them more respect his class: like cut some point if they missed it.
- Maybe answer questions as a class after each lesson on board.

### Career

- I learn a lot in this class. It gave me all the foundation that I need to become a computer scientist.
- to work harder and never give up
- Made me realize that Algebra is very usefull in everyday life

- If I ever have to jump through these hoops again, I will have experience and knowledge in doing so. I've seen the light.
- It helped me a lot more comfortable with Algebra.
- I was able to apply course content to other science courses. Helped me to be better prepared for upcoming entrance tests.
- I know th quadratic formula in case I ever need to use it again
- It's a requirement for me on my pursuit of career to get into the nursing program
- by moving me to my prereq.
- got thru math 99
- Math isn't related to my career but the class was laid back which kept me from being stressed out - which is how I usually feel when it comes to math
- This class really help me good prepare for my next level of math
- It brought me one step closer to finishing my AAS.
- I learned

### Other

- wonderful teacher, very helpful.
- Mr. Bricken was very knowledgable and very kind.
- Thanks for a rewarding quarter.
- I really liked this class
- Have a happy summer
- Excellent class
- everyone should take a math class with mr. bricken. easily the best math teacher i've ever had.
- I really liked the way the class was structured & run, my only complaint was I wish there were 2 or 3 teachers to walk around. I did a lot of waiting to talk to him.

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Math102 SPRING 2008 N=15

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### Best

- He really explained the purpose of what use this math was for instead of the usual "you'll use it sometime". I always left the class understanding everything he said that night.
- The best thing is, he looks at every student individually attends to each student.
- great guy & very forgiving of lack of understanding.
- his pretty open
- He's a laid back teacher that let's us go on our own speed.
- Easy Going
- Laid back and understanding
- He did not give tests. he also helped me to really understand math because he had us show with a project that we have learned the material.
- He explained everything so clear and I learned more and more in his class.
- taught us each individually, and took time to answer our questions.

- His willingness to work with us individually and explain thing I did not understand.  
Very patient

### Can Improve

- NO he's a very knowledgable person
- I think there is a lot more he does than in any of my other classes. He uses different techniques.
- Needed to explain things more clearly & use clear examples.
- Nothing I think his doing great.
- Disciple
- ?
- Give examples of expected projects.
- I think he is a wonderful and knowledgeable person.
- explain more on the text.
- I think he is one of my favorite teachers. He does not need to improve anything.

### Career

- I fully understand ven diagrams and triangle (cos, tan, sin) all lot better ten in high school all the angles will help in the future w/ welding.
- helped me interact and be better at group work and also toward my A.A. degree.
- It did not in any way. A waste of time & money.
- Oh yeah helped me get my AAS
- that there's use for trigagomy in life
- Learning about some material that I use in the automotive field
- Math is not a subject that I will use again, this is my second time taking the class, and this still doesn't make any sense. The book is HORRIBLE and there is no directions to it.
- Helped me to become more comfortable with speaking in front of people.
- -nothing-
- I'm not sure but I do know how to do trig & some calculus I guess that is a plus.

### Other

- Mr. Bricken is an excellent teacher.
- He is the best instructor. Understands each students way of learning.
- He really knows his stuff
- The books used for this class did not do a good job presenting the material.
- Great teacher and wish more teachers were like him.
- Grrreat Teacher!

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Math107 SPRING 2008 N=10

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### Best

- He makes me feel good.

- Warm, Intelligent. Created an atmosphere of openness & ability to interject thorough critical thinking exercises. I wish I would have had a class with him earlier in life as it would have changed my whole perspective
- Was very helpful & understanding when I need help.
- Open-minded, extremely knowledgeable, respectful, and teaching methodology. Best instructor in the 3 quarters I have taken. So much so I have a new interest and look on math.
- Knowledge of subject matter.
- Where may I begin! Never before in all of my life have I enjoyed the teachers who taught maths but with Mr. Bricken it was amazing! He had passion that kept me interested through out. I enjoyed making my friends jealous when I told them about this class. His knowledge and conversations were entertaining and fun. I would take another class with him without even thinking what it is.
- enthusiasm for subject, wanting us to learn
- his lectures
- Unique teaching style
- very nice and kind

### Can Improve

- Remove students that disruptive to the discussion, such as sleeping or cell phone usage.
- have the class more limited in scope corilating with degree programs ext.
- Honestly everything was new and so much fun I don't think there could be anything else.
- keep course the same.
- I don't know
- more practical assignments less theory

### Career

- Increased global perspective of the application of Mathematics
- Math is used for everything, & I can now relate it to thing I wasn't able to before.
- A better understanding of math towards my field of study. Not all maths are created equal and rule of thought
- I covered material used in my certification class.
- It will hep me further understand my passion for film making and where to use it.
- made me aware of how math lays a role in many areas of my life.
- I feel that I learned that math is a lot more in depth than what people think it is.
- It showe me how to look at math from a different perspective
- Math is better

### Other

- This class was great! I would take it again!
- I've taken him to quarters in a row and was very happy in both his classes
- Teach should teach Logic & Reasoning of some kind
- Not much can be said to som up how much fun and educational the class was.
- This is the best class I have taken.



### Best

- He let us work at our own pace, as fast or slow as we wanted.
- Brilliant instructor, well rounded in his vast knowledge of the subject.
- That he was nice. Helpful.
- I like the way his teaching one by one to raise the hands and ask some questions seem to be embarrassed me sometime, because of my broken English. To study as a group in the class with friends are smart idea of him. Friends can always help friends understand and solve the problems. Learn a little bit of each other's knowledge.
- Was always able to go off topic for a little while to make math less stressful.
- Friendly atmosphere in the class. Every question that I asked was answered. It was a great course.
- Knew course.
- Strong knowledge about the subject.

### Can Improve

- Nothing. He's awesome.
- Write his own text book.
- Be more specific in his class lessons.
- The teaching is very good.
- More in class time.

### Career

- I passed and learned more math.
- Meet my requirements to advance.
- This course prepared me for my career by helping me learn more math.
- This course is basic of my goals math, so this is understanding help me a lot.
- He gave a lesson of staying on top of what you're doing - By making everyone responsible to turn in assignments on their own.
- Now I am prepared for my nursing program and my Math skills are much better than 3 months ago.
- Better idea of what algebra is all about.
- Help me remember my math skills.

### Other

- Mr. Bricken has been a wonderful instructor, a very kind and gentle human being which is lacking in our society. Thank you Mr. B. Promote now!
  - Great job with teaching the course. Do more explaining in the future.
  - I love him, he is an awesome teacher.
  - The course was very good.
  - Great teacher.
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Math90eve WINTER 2008 N=8

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Best

- Was very helpful & flexible.
- He is flexible, very relaxed, very welcoming - genuine nice guy
- Mr. Bricken was very helpful, he took time to meet with each individual student. Not only did he check off our homework when it was needed, he explained fully the errors that we made and made sure we understood the material that we went through. Mr. Bricken is a fabulous teacher, and hope to be in his other class.
- personal one on one teaching
- He took lots of time to help me understand what I was doing. He went step by step to make sure that I grasped what he was saying.
- He was very helpful and patient.
- Flexibility with each student and their needs individually

Can Improve

- insist to whoever decides books or curriculum to use a different math book
- Nothing. He is one of the best teachers that I have had.
- Nothing he was great!

Career

- It gave me a clearer understanding and pushed me to try different things
- It let me know where I am in my math knowledge
- Mr. Bricken and I had a discussion about my future goal as a nurse, he explained to me the steps that I need to be taking to meet the mathematic pre-reqs that I need to obtain before I enroll in the nursing program. Mr. Bricken was very helpful.
- I'm not sure I am more prepared from taking this class, but I definitely know more math now than before.
- It helped me get ready for Math 99

Other

- This course was set up very well.
- William Bricken is a fantastic teacher who made learning math a lot easier for me than it has been in the past.
- I hope to be in his class next semester because he is an awesome teacher and helped me step by step when I needed it. Thank you!

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Math99 WINTER 2008 N=11

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Best

- explanations of material & finds time for individual consulting.

- His patience and encouragement to help me understand the material. treating each student as an adult and with different needs.
- Mr. Bricken was always very helpful in class and very understanding of everything
- I loved the fact that it was (in a way) self-paced. I was able to move forward ahead of the class when I was confident w/ the material. Also gave significant one-on-one time to each student.
- Very knowledgeable & understanding instructor. I liked how the class was structured to work @ your own pace.
- He takes the time to work with each student individually, however would explain the math in a more complex manner. Therefore, even though he means well and truly wants students to succeed, for some it made learning the math more difficult.
- His teaching style. I learned a lot more in this math class than in previous classes.
- I like the fact that he would take the time to sit w/ each student individually to examine progress, and would answer any questions in a way that I could understand.

### Can Improve

- Teach more classes
- Nothing
- Lectures should take up more class time.
- I think that a few more examples would have been helpful on a couple occasions.

### Career

- Actually enjoyed a math class. "That dose not happen."
- This course is required to receive my degree.
- It is a stepping stone to presue my goal in becoming a nurse
- I was able to brush up on my math skills that I have forgotton since high school.
- Only somewhat. I do not see the relevance of algebra at this level and working with dosage calculations in nursing. Math 90 is really enough.
- Its helping me get into the classes I need for my RN.
- This has gotten me prepared to take the next level math towards my AA

### Other

- fantastic instructor how needs to do Math at higher levels 120, 107
- The instructor was very good at explaining material & pacing subject for each student's need. The math text is terribly confusing and very user unfriendly. My learning experience of this subject would have been much easier & less confusing with a more straight forward text.
- I believe more teachers should adapt his teaching style. It's more beneficial to students.
- great teacher

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Math90avo AUTUMN 2007 N=11

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### Best

- He attends to every person individually to see what they need help with every class
- Mr. Bricken was great. His class was interesting and we can work at our own pace. He loves math, and he makes the class easy and interesting.
- He's very relaxed and has confidence in what he's teaching which creates comfort to the student in learning and understanding the subject.
- He worked w/ individuals to ensure understanding the materials and assignments. Would spend the time to be sure materials were understood. Works at the pace of the student. I was behind and he worked w/ me on a plan to catch up.
- His teaching style was great! Always available to help and explain things over as needed.
- That it was a lot of one + one time and it helped me understand the material perfect!
- He let you find the way!
- Teaching style
- Everything!!!
- very customized teaching style
- Flexibility and open to different ways of grading.
- His knowledge of the subject

#### Can Improve

- I really can't think of any improvements. He was intelligent and nice.
- Specify whether or not the lectures will apply to everyone, or selected people.
- Nothing.
- Don't know...
- Nothing!!!
- He's already great!
- Needs to answer questions more clearly

#### Career

- It was a great, thorough class that covered all the basics of Algebra. It was very useful.
- Refreshed my memory for higher levels of math so that my foundation has grown stronger.
- Allowed me to move on to other courses. This class was a required class for me to move on. I'm not good at math but Mr. Bricken helped me to understand better.
- It has allowed me to advance to the next math class to complete my pre-req.
- I am so bad at math. I feel like it gave me a great learning experience b/c I actually knew what I was doing.
- A LOT!!!
- very
- It was a different teaching style than I am used to so it taught me to do things in a different manner.

#### Other

- The structure of this class has really been great for me. Very different. Very good.
- Wonderful teacher!!
- All teacher should teaching like him. [comment on another teacher omitted]
- Good teacher!

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Math90eve AUTUMN 2007 n/a

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Math99 AUTUMN 2007 N=10

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### Best

- His enthusiasm for his subject. I was always interested in math, but when one of my previous instructors was so negative, it was really discouraging. Mr. Bricken re-lit that old math spark, and I am looking forward to my future math classes again.
- Really adjuster to all learning styles
- He was very relaxed and made me feel comfortable with math. And he let us go at our own pace
- I really like the fact that Mr. Bricken treats us like adults. He supports and encourages us.
- That he gave many examples so that everyone could understand. He also was very knowledgeable about this subject.
- He was always there for me when I needed help
- That he was willing to help at any time and he made sure I understood the material
- His openness and willing to sit one on one with you
- He was always there for me when I needed help. I enjoyed having a short lecture and almost the whole class time to work on problems w/ others in the class. It gave more one on one time w/ the instructor for help.
- Enthusiastic & knowledgeable; even though he obviously has had a lot of education in math, he stays down to earth & is patient & willing to act as a tutor. This helped me a ton.

### Can Improve

- Nothing unless more time; his one on one attitude is encompassing to all students, no matter how fast or slow they're working through the material.
- nothing he's done great
- I think the teaching style is just right the way it is
- Nothing, he is great.
- more lecture notes
- nothing
- Nothing really; I think he's got it down.

### Career

- It refreshed what algebra I has forgotten or didn't know, and reminded me that math's only hard until you learn the tricks (helpful to remember for the future, harder courses I'l have coming.)
- It helped me to understand math better which will help me when I'm a nurse
- This course has helped me expand my brain in areas I didn't know I would enjoy.
- Help me jog back memories of this material since I had taken this type of class in H.S. helped me be more ready (prepared) for Math 120.

- I got much better at math
- I learned more steps math progresses to.
- I have a way better understanding for what I need to do.
- I was able to gain understanding in algebra (which I've always struggled with) and now I know ways that will quickly assist me in mathematical equations& problems in the future.

### Other

- Mr. Bricken is by far the most helpful teacher I have even had, and would recommend him to anyone.
  - I really enjoyed taking this class. this was the first time I felt good about taking math and doing a good job.
  - This is my second quarter with Mr. Bricken. I have thoroughly enjoyed learning this Algebra material from him. I'm sorry to see them end! Many thanks for expanding my math horizons.
  - I really loved that it was self paced.
  - He was a awesome teacher always felt comfortable and made the math a joy instead of a pain in the but.
  - Great job; amazingly you made math easier for me!
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WRITTEN COMMENTS      2006-2007 ACADEMIC YEAR

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Math90    SUMMER 2007    n/a

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Math99    SUMMER 2007    n/a

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Math102    SUMMER 2007    n/a

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Math90    SPRING 2007    N=3

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Best

- He was the type who let us go on our own pace instead of the entire class being on the same pace.
- He's a cool guy.
- He is really knowledgeable and has a great understanding of student needs.

Can Improve

- I really don't know @ this time.

Career

- by reading the problems clearly & ALWAYS ask questions.
- I work with numbers a lot of the time. I might want to be a teacher.
- It is a prerequisite for a general education class.

Other

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Math99    SPRING 2007    N=13

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Best

- I liked how this instructor based the math class as an independent working class. He acknowledged the fact that not everybody learns at the same level. Some people need more time maybe on a specific chapter than others.
- His willingness to teach students who are struggling with math in general. He is always there to answer all your questions, and he always guides you with the math problems.
- I liked his patience and following with each student.
- He adapted to my learning style.

- Always willing to answer any questions that should arise.
- made the class more individualized
- He was a completely new approach to Math. I liked it a lot. And would love to have him again.
- Great teaching method, attitude and good sense of humour.
- I love his positive attitude and his willingness to adapt to any learning style. I liked how the class was layed out and that he maintained a quiet, working environment. I really enjoyed working on my homework in class where I could get this help.
- Teacher is very smart
- His patience and that was always willing to help out students.
- He is well prepared and every class read to tache and was clear with us and he take time to make you understand what we are working on.

### Can Improve

- One of the best taught classes I have ever taken.
- Slow down on explanations on some math problems
- None. I believe that with his method of teaching at present, his students will learn 90% if not 100% of the course.
- n/a
- teaching is already good
- Nothing.
- Make the class a little more disciplined.
- Slow down! repeat, repeat examples
- Nothing much really, I liked his way of teaching personally.
- He doing more even the others. I don't think he needs any thaking that what he is doing.

### Career

- Taught me a new way to learn
- Got me ready for Math 107
- This is my second math class and I am sure that this helps me in improving my math skills. This also helps me in a way that I will be able to move on to the next Math level/course.
- I'm ready to get into the university.
- prerequisites
- I got to refresh lost math concepts.
- increased my math skills
- Good review of subject matter to prepare me for the next course.
- I hope to do well in Statistics so I can move on with my career.
- More prepared in math
- It gave me a lot of feedback and helped me focus more on my career.
- I used to say that I didn't knew math but now with this class Mr. Bricken I know more than even 99% than what I come here!

### Other

- This is just a suggestion. I wish that he will give the class assignments or homeworks which the solutions cannot be found in the book. What I mean is, the problems itself &



the solutions are not in the book, but relates to the topic. By this, the students will be more motivated, encouraged or challenged in solving math problems.

- Excellent. I look forward to the next class with this instructor.
- !Please teach Statistics!

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Math141 SPRING 2007 N= 9

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### Best

- When I had any questions, he sat there and explained everything very clearly
- He was willing to help everybody when needed
- He worked individually with each student looking for their needs as individual.
- Mr. Bricken let us work in our own past he didn't rush us to keep up with the syllabus.
- He is always available for help. He make the subject easy.
- The one-on-one time that he spent with each student. I also enjoyed that he adapted his teaching to each individual student.

### Can Improve

- maybe he could set more firm deadlines so people don't put off their work until the very end
- Make class lectures a little more understandable.
- I like his way of teaching very effective.
- I think that Mr. Bricken can lecture a little more on each chapter, have the students do examples and go over them with the students.
- Be more specific on the lecture and go through the book to make students understand the material.
- Maybe a little more time spent on lecture or more examples shown
- Explain the material in different ways

### Career

- It has prepared me for calculus class
- I feel ready to continue my calculus education and place high in the UW test.
- It helped me to be ready for the next level of math
- It did not. I don't like theory. I can only solve practical problems. Itook this class just to get credit for Precalculus in a 4-year college. (I will take Math 115 later).

### Other

- Mr. Bricken is a great teacher, very nice and respectful to all the students. He just needs to make class more active and involved in their work instead of just doing the assignments.
  - The text book was poorly written. But it was not the instructor's fault. The examples that were used in the text book were unclear, so i constantly had to ask questions, but the instructor was willing to help.
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### Best

- He was friendly.
- His flexibility and understanding towards everyone's schedule.
- I liked the individual assistance given because everybody in class was at a different level.
- He applied math to the world around us.
- He was very nice and had lots of useful information.
- William was very helpful and courteous when questions arrived. Additional information and/or perceptions for problem analysis was extremely helpful. He also treated each student with the highest regards and respect. William's communication was detailed and explicit.
- His "work at your own pace" method and individualized instruction as needed.
- He let everyone work at his/her own pace and assisted everyone individually.

### Can Improve

- Teach the course better by using another method besides the book. The book was confusing and didn't help me retain anything about math. The DVDs were more useful because I learn better visually. However, they only work on a PC and I have a mac.
- Maybe more illustration on the board.
- He teaches at a very fast paced but overall is very intelligent and a good instructor.
- Class seemed extremely structured, well detailed and understandable.
- Get student interaction, more.

### Career

- It didn't. None of it sunk in. I remembered long enough to finish the chapter, then it was forgotten.
- I needed a foundation of basic math in order to continue to level of math I need for an AA degree
- It refreshed my skills.
- I am barely getting by I think. Math just isn't my subject.
- Provided me with additional problem solving theories.
- Hopefully it will fulfill one of my gen ed requirements
- It refreshed my math skills.

### Other

- I am tired of paying tuition for a class when the instructor says buy this book, good luck. What is the point? I could do that on my own and save hundreds of dollars.
- I do not believe that geometry and trigonometry are basic math!
- He's a fantastic teacher; I hope I get him again.
- I would like to have him as my teacher again perhaps for Math 90. I do get easily confused with math so I would just ask him to slow down and teach me at a slower pace.
- I would like to thank William (through the administration) for his efforts, attention to detail, dedication for higher learning and the respect and communication established through classroom discussions and daily activities.

- Mr. Bricken is a wonderful teacher and understands everyone's needs.

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Math90 WINTER 2007 N=13

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### Best

- came around to each student every class period & helped each one individually according to their level and pace.
- Teaching style made it easy for the student to understand.
- He had great knowledge of the subject, and could answer, as well as explain, how to do the problem and get the answer.
- He was very easy going. Always willing to help you.
- (1) What I liked best about the instructor is that he really works well with students in all ranges of knowledge in math (Some students excelled fast in the class & others needed more one-on-one support (which he provided).  
(2) I have been out of High School for a long time and have always "feared" math - but felt much more comfortable and less stressed with his teaching style (more real-life practical examples).
- His ability to explain thoroughly the subject matter particularly the questions/ chapters where the students do not understand.
- Was very respectful of students and gave us a lot of flexibility with our assignments and due dates. He also listened to students and provided a lot of one-on-one instruction.
- Knows what he teaches.
- I learn math 90 in easy way. The instructor use the good examples to teach.
- He was a very nice guy. He helped me whenever I needed help.
- That Mr. Bricken was very understanding when it came to class time, and work.
- Very knowledgeable and kind. Would often work with you to make sure you got it.

### Can Improve

- I wish he was teaching other math classes I need to take like statistics.
- Nothing.
- I didn't see anything wrong with what this teacher did. So no improvement.
- nothing
- 0
- I like the method of teaching he is using.
- The class was fine for my needs, but I think more structure of specific deadlines would have helped those who preferred to procrastinate.
- Give more example of solving equations.
- nothing.
- not much

### Career

- This course helps me a lot. I was able to improve my math skills especially the graphing and solving rational expressions and equations.
- This class has helped me because algebra is a big part of what I need to know, and I feel Mr. Bricken has helped me to gain enough knowledge to do so.
- needed this class to qualify for Statistics required in Nursing.
- prepare for next class with understanding
- very well. I am prepared for 99
- Helped me refresh my math skills, and give me some confidence.
- Helped me review basic algebra concepts that I hadn't seen in a long time.
- not much
- It helped me to understand Math more.
- completed HS math skills

### Other

- Wonderful teacher. Very patient with even the dumb simple questions. Explained very clearly, made difficult problems look simple after his explanation.
- Mr. Bricken is a wonderful teacher and got me through this class!
- Keep up the good work!
- He is a great teacher.
- Would definitely take another math class from him in the future.
- I hope to continue math 102 with him.

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Math99 WINTER 2007 N=11

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### Best

- Very good understanding of math. great at helping me understand a problem that I don't.
- The way we were allowed to do the chapters out of order.
- He is the BEST.
- His unique teaching style allowed for learning at an individuals own pace. He was always positive & helpful when I had questions. He explained problems in a way that made sense to me. He was very encouraging. I appreciated his knowledge of this text book and his willingness to tell us which problems were just badly written or just plain wrong.
- Talk to me 1 to 1.
- Professor Bricken was very supportive, used different teaching styles to get subject across. Listened well to my questions. Respond timely to emails.
- Very helpful. Knowledgable and able to help me understand the work and problems.
- Always took time to help w/ questions, never seemed in a hurry to get done helping me.
- He was very helpful + would work with you individually.

### Can Improve

- nothing
- More examples on the board would have helped me.
- Do couple problems on board.
- nothing @ this time.

- Nothing
- Maybe a little more lecturing.
- Nothing

### Career

- Better understanding of Algebra!
- The teacher kept pushing me to learn factoring and after his helping me often I learned it and am very appreciative of him not giving up on me.
- Improved math skills for AA.
- Met prerequisite requirements
- By doing my HW
- requirement for degree
- helped me to get into a higher math class
- a pre-req for statistics

### Other

- Bricken is great. Very accomidating to other schedules.
- He is the best math teacher I have ever had & because of him I finally understand math better.
- Great teacher.
- Remembering how well Professor Bricken worked with me last quarter made me search for his class this quarter. I'm sorry he will not be teaching the other math classes I am still required to take. Exceptional instructor. Thank you!
- Thank you teacher.
- He was a great instructor!

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Math80 AUTUMN 2006 N=13

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### Best

- The way he taught the class.
- Mr. Bricken is a good instructor and knows what he is talking about.
- William clearly explained the purpose of the assignments. He was willing and always helped students when they had problems with homework.
- He was flexible as to how the class was to be taught. He listend to idea and took them seriously.
- Flexibility and the way grades were determined.
- His flexibility to adapt to each student's needs.
- He makes me very comfortable during classtime.
- It was helpful to work at our own pace.
- He was flexible and adaptable. He had a fresh teaching style.
- The instructor was always available when needed extra help. Shows great knowledge about the subject.
- I liked his unique teaching. He instructed in a way that made me want to learn and complete my work.

- He was very enthusiastic about math.
- He was very thoughtful with his teaching style - asked the students questions to determine the best way to proceed with teaching the class (encouraged student participation). He also had a very positive attitude and developed good relationship with the class. I have a long-standing math anxiety and appreciated the low-key test (I usually do not test well on math).

### Can Improve

- Not to much.
- a bit of theory explained to the whole class would be nice but he was always ready to explain one-on-one, so that was nice.
- William is doing an excellent job.
- Be more clear when answering questions. What seemed like a question that could be answered in less than 5 minutes, sometimes took over 10 and I was still confused.
- Actually I don't know if teach is good.
- Possibly use more class time.
- Maybe a little more lecture time.
- Maybe a test for each chapter of the subject.
- He could make sure the students were doing their work thoroughly. There was too much trust.
- Nothing

### Career

- Math is very important in life.
- It helped me go back through the basic steps of Math and helped me in knowledge of math.
- I was prepared because the textbook showed me methods that I never learned before. William was always there whenever I needed him.
- It brought me one step closer to my math requirement.
- for my career: very little. I am only doing it because it is required for the associate degree. Math is extremely boring subject for me.
- Yes it did.
- It helped me get ready for my next math class.
- helps me get a degree
- Prepare me to able to take the exam + challenge a higher level math.
- It helped me learn a good amount of material in a faster time.
- It prepared me for the math that lies ahead for the automotive courses I will be taking.
- Helped me get the basics down (again!) so that I felt more comfortable going forward in math.

### Other

- It would be nice to have William for all of my math classes.
- I felt the class helped but many students left too early and I felt like we could have used more of the class time.

- Really liked working w/ him. was helpful and informative.
- Great semester. I enjoyed being taught by him.
- Look forward to having him for other classes.

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Math90 AUTUMN 2006 N=17

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### Best

- Instructor knew subject very well, and explained it well.
- Personality.
- Enthusiasm and knowledge motivated me to want to learn.
- Great approach to math. not too serious about a tough subject. I liked him.
- The one on one teaching methods allowed me to learn and comprehend the algebra problems. He work very well with the students according to their needs.
- flexibility
- He was very helpful and showed me other examples or another on how to figure out a question because my mind only wanted to think of one way.
- The instructor listened well when I was struggling, presented textbook info in different ways to ^ learning. Very knowledgeable and enjoyed what he was doing. \* Excellent instructor.
- In class we had a lot of one on one time. He made time to help everyone who raised their hand. He made sure we understood math.
- I liked the loose teaching curriculum of this class, it was stress free and helpful. I thought he knew a lot about math + was very easy to understand.
- He encouraged everyone to learn at their own pace. Very supportive to individual's needs. Excellent lecture presentation.
- Teach one to one with students
- His type of teaching

### Can Improve

- Spend a little more time on lecturing.
- Does not need improvement.
- I'm not sure.
- I don't really know. He's teaching method is great!
- nothing
- maybe to just making it a little more exciting.
- no comment
- nothing
- Make a little more structure to force students to come to class.
- Explain more on the board using easy technique
- Nothing.

### Career

- helped me understand math better
- gave me an excellent understanding of algebra

- Instructor provided me with information specifically on how this class would relate.
- Math is not my needed subject. This gave me a better understanding of algebra!
- ready for chemistry
- it has helped me to gain the knowledge to move into more math classes
- I finally made it through Algebra!
- who knows
- I hope to test out of Math 99 to go to statistics.
- did all the work in the book helped me alot
- It helped me toward my degree.

### Other

- Teacher did a great job overall, would be willing to take another class from him.
- Keep it up.
- The class has been much more enjoyable than my last math class. I think the low pressure atmosphere empowered students.
- If I could (schedule wise), I would take all my math classes with this instructor. I hope to have him for spring '07.
- Thank you for giving Mr. Bricken the opportunity to teach at this school. He is a great addition to the staff.

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Math146 AUTUMN 2006 N=13

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### Best

- Mr. William is a great teacher! Loved his teaching style and philosophy of teaching. Great Instructor!
- Willingness to compromise on type of work done.
- I really appreciate how he respects each individual students' learning styles, abilities and interests. He used examples that pertained to our future careers. He made us responsible for our own learning and allowed students to proceed at their own speed so that fast learners could go quickly and those who needed more time could have it. He gave a timetable as a guide. He was very accissible by email and for questions during and after class.
- He is very nice, interesting, smart.
- He researched and worked on ways to relate material to our areas of study ie medical field. He also asked our opinions on how we could best learn & understand information and gave us options.
- He was very respectful of the students; made the class flexible and was very knowledgable about the subject.
- He was very enthusiastic about teaching the material. Provided a comfortable learning environment. Allowed the students to be responsible for their own work.
- He was willing to explain things in multiple ways to be better understood.
- that he treated students as adults.
- Related the coursework to known field of interest (nursing, medical).

### Can Improve



- More examples (problem solving) in the class.
- Maybe slow down a bit more. We proceeded quite quickly.
- I would like to do more exercises in class from textbook.
- He has communicated ideas on what might work best for his next class since this is the 1st time teaching w/ this textbook. He has carefully considered our class as well as the format of others.
- Though I know the circumstances were not ideal, it would have good if he had the class structured before the quarter began.
- can spend more time on doing problems from the textbook. I think would better help students.
- Maybe provide a little more structure throughout the course. It might have been helpful if homework assignments were mandatory, instead of optional.
- require that homework be turned in.

### Career

- I am into Statistics and this course helped me to look more into data analysis and fact finding. Good class.
- Helped me practice my critical thinking skills and how statistics apply in so many areas. I found other resources to help me as I further my education.
- This course frequently challenged me to “think out of the box” and helped exercise my brain for problem solving out in the real world.”
- I gave me some perspective on how statistics is used in nursing.
- At first, I was leary abt. the presentations. However, using the learned material in a real-world way allowed me to understand it better.
- its a required course
- increased statistics knowledge

### Other

- Mr. Bricken is a very good teacher; he communicates well, encourages feedback and I experienced his continued efforts to make his class the best, to help us learn and succeed.
  - I felt like Professor Bricken really cared about his students and really did want to see everyone succeed. Thanks for a great quarter.
  - Thank you for a great quarter. It was fun working with you. I will highly recommend your class to other perspective students.
-