MATH 1220-005 **Applied Calculus II** - Fall 2016

CGAS (10796)

INSTRUCTORS: **Echeverria Echeverria, Mariano (me3qr)**

Respondents: 27 / Enrollment: 44

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
1. How would you compare the problems on Webassign with the problems we did in class and the problems you had on the exam? **Did you find the Webassign hints useful?** ~ Question Type: Short Answer ~ *contributed by Echeverria Echeverria, Mariano (me3qr)*	

Results for MATH-1220-005, Echeverria Echeverria, Mariano	
Total	Individual Answers
26	*See below for Individual Results*

The problems on web assign were harder but useful.

Sometimes the Webassign problems were more difficult or trickier. The hints were useful, but it would be more useful if Webassign offered its "Tutorial" feature for these questions. (Another one of my classes has a "Tutorial" option on Webassign which teaches the student how to do an example problem step by step.)

I found the problems on webassign similar to those in class. They helped more with double integrals than anything else, as some of the problems are too long and too specific. The webassign hints were very useful and they allowed for me to get points I may not have normally gotten

The Webassign problems were much harder but the hints were useful

The problems on the exam were significantly more difficult than the ones we did in class and on webassign.

I found that the webassign problems and the problems we did in class were far easier than those we did on the exam. This was somewhat dissapointing as going into the tests I felt very confident however, ended up not doing so well.

they tied well together. yes, they were helpful

Web-assign activities included problems that a student must utilize a calculator to solve, but exams prohibited the use of a calculator. It is of VITAL importance that this be addressed immediately. Luckily, Professor Echeverria's in class examples were very relevant to exam material as a counter measure to this problem.

The exam was much harder than webassign.

The problems given on WebAssign and in class were considerably easier than the problems given on the exams. I found the WebAssign hints useful.

Webassign problems much more difficult and strategies for solving not addressed in class.

The problems on web assign were significantly easier than the problems on the exams.

Sometimes the Webassign problems were slightly harder than the problems we did in class and varied a little bit from what we got on the exams. The exam questions were more similar to in class questions. The hints were very useful!

Webassign was very useful

Webassign problems ranged from easy to difficult; usually one-two easy problems and one-two difficult problems in class; exams were mostly difficult problems. Webassign hints were often useful, as well as the Practice Another Version option

webassign and class very similar, sometimes the exams seemed harder

The hints were very useful but the exams were always harder

The problems on Webassign were very similar to those done in class and the hints were very helpful.

The Webassign problems were very helpful for exam questions because they were challenging questions that required thinking outside of the box. The Exams were composed of such questions. The Webassign hints were helpful.

I think they were fair and helped a lot.

The webassign problem ranged from being much easier than those on the exam to being almost identical. So there was a good mix. The hints were really helpful, especially if you can't make it to office hours.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	I found the Webassign problems to be easier then the ones on the exam. The Webassign hints were very useful.
	Less problems requiring a calculator Some problems absurdly hard Didn't use hints much
	Exam problems were much more challenging/complex
	Very useful. The hints also very helpful sometimes!
	I always found the questions on the exam to be much more perplexing than the Webassign problems. the Webassign hints were very useful.

2. Do you have any comments/suggestions on the quizzes? For example, do you think they should be less/more frequent, shorter/longer, less/more difficult?
~
Question Type: Short Answer
~
contributed by Echeverria Echeverria, Mariano (me3qr)

Results for MATH-1220-005, Echeverria Echeverria, Mariano	
Total	Individual Answers
26	*See below for Individual Results*

They were good

Weekly quizzes is a good way to keep students from slacking off throughout the semester. Quizzes were often too easy in my opinion because one could just memorize the solution.

I think instead of there being video extra credit questions there should be a problem we haven't had the chance to see before as extra credit. I think that would motivate students to better understand the material.

The quizzes are fair in difficulty and length. I also appreciated how we had opportunity for extra credit.

Quizzes were fine; they may have seemed too frequent during the course, but looking back, they were reasonably frequent.

I would leave the quizzes as is.

I though that the quizes were just fine the way they were. I think that if you made them any more difficult, the quizzes would have to be accoladed more time during class, drawing from the learning time.

Maybe sometimes having a quiz with slightly different questions from the study guide would help to make sure we really understand what we are doing.

They were a good way to check my understanding so i think having them once a week was good

I feel that the current quiz system works fine.

Probably should be more challenging considering we could memorize solutions to problems.

I think the quizzes were well scheduled. Making a quiz every week ensured that I constantly learned and understood the lessons taught.

Maybe 2 questions for most of them would be good. I like the optional videos

slightly longer would be better

I think that the quizzes should be less frequent

Nope!

I think they were perfect

The quizzes were fair and should be left as they are. I enjoyed the bonus questions because the video content was always very interesting.

Less frequent to give students more time to study. Since they are a small part of the grade,they shouldn't be more difficult, and they shouldn't be longer.

quizzes should be more of the same difficulty as the exam to get a feeling for what the exam will be.

I think the quizzes should not be on homework problems. It would allow us to think more and get more practice

Being that exams account for such a large part of one's overall grade, these should either be easier, or replaced with a take home assignment that the instructor goes over in class after the due date.

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~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

The quizzes seemed appropriate in frequency, length, and difficulty, but they didn't match the difficulty of the exams.

They're perfect.

Quizzes were good

The frequency and length of the quizzes was fair however, I wish their difficulty matched the difficulty of the tests.

3. Which parts of the course did you find difficult?

~

Question Type: Short Answer

~

contributed by Echeverria Echeverria, Mariano (me3qr)

Results for MATH-1220-005, Echeverria Echeverria, Mariano	
Total	Individual Answers
26	*See below for Individual Results*

series

The material near the end. Taylor series

The exams are very hard. They challenge all of your skills and are graded very precisely.

The topic of series was especially difficult for me.

Taylor Series

I wish we had spent more time on more difficult topics like the power series and Taylor series. They require a lot more practice in order to really understand them and know how to solve them independently.

Sequences and Taylor Series & Polynomials

Exams in general were the most difficult part of the course, in particular preparing for them

I think that the Taylor Polynomials section was tough

The exams were much more difficult than anticipated. I feel like my final grade won't reflect how hard I worked in this class as a result, and I've lost a lot of motivation to keep trying.

Double integration and Taylor series.

I think the second half of the course has been extremely difficult

Needless to say, exams

Second half of the semester.

Sequences and series

The Exams were significantly harder than any other class aspect.

Exams.

I had difficult with the exams because of the length of the exam. I couldn't stay focused for 2 hours.

Exams

The exams. I didn't feel like I was completely prepared for any of them.

Everything after the first test

In terms of topics the taylor series. In terms of work the exams.

integration by parts, sequences and series, taylor series

Series and sequences

Series

Taylor polynomials, integration by parts

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

4. Which parts of the course did you find easy?

~

Question Type: Short Answer

~

contributed by Echeverria Echeverria, Mariano (me3qr)

Results for MATH-1220-005, Echeverria Echeverria, Mariano	
Total	Individual Answers
25	*See below for Individual Results*

WebAssign.

The beginning all the way through to integration.

The statistics part

The quizzes were not difficult because we had the practice problems before.

Beginning material. Derivatives and intervals

Everything except Series and Sequences.

Nothing specific was "easy", just some things were harder than others

Quizzes

Quizzes

None

As mentioned before, the quizzes were quite easy and didn't prepare well for midterms/finals.

differential equations

Expected value and variance

first half of the course was easy

The first half of the semester.

The first half

the quizzes

The first unit

Most of the course wasn't too difficult and was just review of topics learned in previous calculus classes.

webassign.

probability

The probability segment was easy

Partial derivatives and Double Integrals

I struggled mightily throughout the course, but Professor Echeverria made a clear and conscious effort to help me. Nothing about this course was easy for me, but this dynamic helped to keep me involved/motivated.

Everything before the first test

5. How did you prepare for the exams? (for example, you could mention if you had a tutor, read Tan's book or solved the exercises on the study guides)

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Question Type: Short Answer

~

contributed by Echeverria Echeverria, Mariano (me3qr)

Results for MATH-1220-005, Echeverria Echeverria, Mariano	
Total	Individual Answers
26	*See below for Individual Results*

Did all the practice exams, went to office hours, and worked on the study guides. Also would go back and look at quizzes or especially challenging web assign

used study guides, read class notes and practice exams

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~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	I solved exercises on the study guides, went through WebAssign problems, reviewed quizzes, went to office hours, etc.
	I read the book and did old exams.
	Tutor, study guides, practice exams
	Solved exercises on webassign, study guides and practice exams
	I would do practice exams and study guides and make a list of the most important information i needed to know for the exam
	I used the practice exams to study.
	Studied the lessons posted on collab.
	I did all of the practice exams.
	Problems in book, tutor, office hours, study guide, practice exams
	Study guides, tutor, notes
	Reviewed the study guides and practice exams
	I went to office hours, studied the guides provided by the profesor and reworked webassign problems for extra practice. I never ended up using the books
	I just did all the past exams and reviewed them and read over in class notes and study guides.
	Tan's book, study guides, and webassign
	I used the study guides, web-assign, and the practice exams. The practice exams were very helpful.
	Study guide preparation as well as practice problems.
	Looked over previous exams
	study guides, help session, KHAN Academy, & sample exams w/solutions
	Study guides
	I was tutored once a week and I solved the study guide questions.
	I did all the practice tests and referred to the study guides for topics I found myself struggling with.
	read the book, re-worked web assign problems, did all practice exams, went to office hours, went to math tutoring course
	I solved the exercises on the study guides and reviewed my notes. I did past tests
	Past exams

6. What changes would you like to see on this course?
~
Question Type: Short Answer
~
contributed by Echeverria Echeverria, Mariano (me3qr)

Results for MATH-1220-005, Echeverria Echeverria, Mariano	
Total	Individual Answers
20	*See below for Individual Results*

Take the theory questions off exams. A fool's dream. I know.
Extra credit go beyond just the 25 points allocated to the portions of the class. Maybe some be allowed to go on exams or just beyond 100%
Just the webassign issue (mentioned above)
I liked the course
A change in Webassign.
N/A
Exams not graded so nit-picky. Even the slightest syntax errors or sloppiness of form was penalized despite correct answers.

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~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

I felt the tests were far more difficult than the webassign and class quizzes. I wihs the difficulty level of the assignments would allign more clearly.

Either the assignments should be more difficult or the exams should be made easier to match the difficulty of the assignments. I'd also like to see more examples in class. We usually only made it through maybe one or two examples in a class period.

I think this course is very good the way it is.

Stick to Calc II material

Test questions are extremely difficult, and easier examples are shown in class. I think there should be a focus on the more difficult examples.

Nothing. It was a great course.

more office hours availability

I would like to see more interactive lectures, getting the students more involved

None

I think the textbook is not very good. Wish we had something a little more relatable

Have the exams more closely mirror the problems discussed in class

Making the homework harder to match the exams.

Found myself forgetting things we did in earlier half of semester by the end so implementing some way for students to do cumulative practice before the last week.

7. I learned a lot in this course.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
26	4.12	0.91	1 (3.85%)	1 (3.85%)	0 (0.00%)	16 (61.54%)	8 (30.77%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1748	3.92	1.06	74 (4.23%)	149 (8.52%)	154 (8.81%)	830 (47.48%)	541 (30.95%)

8. The content of the course was good.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
26	3.88	0.77	1 (3.85%)	1 (3.85%)	0 (0.00%)	22 (84.62%)	2 (7.69%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1746	3.90	0.97	51 (2.92%)	130 (7.45%)	210 (12.03%)	901 (51.60%)	454 (26.00%)

9. At this point, I feel that this course has been or will be of value to me.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
26	3.85	0.73	0 (0.00%)	2 (7.69%)	3 (11.54%)	18 (69.23%)	3 (11.54%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1746	3.68	1.16	102 (5.84%)	233 (13.34%)	234 (13.40%)	726 (41.58%)	451 (25.83%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

10. The course was interesting.
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Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	3.74	0.76	0 (0.00%)	2 (7.41%)	6 (22.22%)	16 (59.26%)	3 (11.11%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1744	3.39	1.20	145 (8.31%)	309 (17.72%)	330 (18.92%)	646 (37.04%)	314 (18.00%)

11. Compared to other courses, this one has been a good one.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	3.74	0.98	1 (3.70%)	1 (3.70%)	8 (29.63%)	11 (40.74%)	6 (22.22%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1744	3.31	1.26	189 (10.84%)	298 (17.09%)	370 (21.22%)	550 (31.54%)	337 (19.32%)

12. Please rate the course. (A = Excellent to E = Very Poor)
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	A (5)	B (4)	C (3)	D (2)	F (1)
27	4.15	0.72	8 (29.63%)	16 (59.26%)	2 (7.41%)	1 (3.70%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	A (5)	B (4)	C (3)	D (2)	F (1)
1751	3.82	1.05	525 (29.98%)	646 (36.89%)	388 (22.16%)	130 (7.42%)	62 (3.54%)

13. The instructor showed a scholarly grasp of the course material.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.63	0.84	1 (3.70%)	0 (0.00%)	0 (0.00%)	6 (22.22%)	20 (74.07%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1751	4.40	0.85	33 (1.88%)	43 (2.46%)	94 (5.37%)	594 (33.92%)	987 (56.37%)

14. The instructor was well-prepared for class.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.67	0.83	1 (3.70%)	0 (0.00%)	0 (0.00%)	5 (18.52%)	21 (77.78%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1746	4.30	0.93	35 (2.00%)	86 (4.93%)	108 (6.19%)	609 (34.88%)	908 (52.00%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

15. The instructor was confident in front of the class.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.33	1.00	1 (3.70%)	1 (3.70%)	1 (3.70%)	9 (33.33%)	15 (55.56%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1746	4.17	1.01	45 (2.58%)	112 (6.41%)	158 (9.05%)	619 (35.45%)	812 (46.51%)

16. The instructor made good use of examples and illustrations.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.41	0.93	1 (3.70%)	0 (0.00%)	2 (7.41%)	8 (29.63%)	16 (59.26%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1744	3.98	1.11	62 (3.56%)	188 (10.78%)	155 (8.89%)	650 (37.27%)	689 (39.51%)

17. The instructor showed a genuine interest in teaching the course.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.70	0.82	1 (3.70%)	0 (0.00%)	0 (0.00%)	4 (14.81%)	22 (81.48%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1746	4.26	0.93	31 (1.78%)	81 (4.64%)	148 (8.48%)	621 (35.57%)	865 (49.54%)

18. A positive environment was provided for student questions.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.67	0.83	1 (3.70%)	0 (0.00%)	0 (0.00%)	5 (18.52%)	21 (77.78%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1745	4.14	1.03	55 (3.15%)	105 (6.02%)	180 (10.32%)	597 (34.21%)	808 (46.30%)

19. Students' questions were handled well.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.52	0.89	1 (3.70%)	0 (0.00%)	1 (3.70%)	7 (25.93%)	18 (66.67%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1745	4.00	1.10	71 (4.07%)	146 (8.37%)	202 (11.58%)	626 (35.87%)	700 (40.11%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

20. Lectures were clear and well organized.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.44	1.01	1 (3.70%)	1 (3.70%)	1 (3.70%)	6 (22.22%)	18 (66.67%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1744	3.87	1.18	92 (5.28%)	196 (11.24%)	209 (11.98%)	605 (34.69%)	642 (36.81%)

21. I could usually understand the lectures.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.11	1.05	1 (3.70%)	1 (3.70%)	4 (14.81%)	9 (33.33%)	12 (44.44%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1740	3.69	1.20	111 (6.38%)	242 (13.91%)	213 (12.24%)	685 (39.37%)	489 (28.10%)

22. The instructor seemed to be aware of whether the class was following the presentation.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.15	0.95	1 (3.70%)	0 (0.00%)	4 (14.81%)	11 (40.74%)	11 (40.74%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1745	3.61	1.18	97 (5.56%)	274 (15.70%)	294 (16.85%)	635 (36.39%)	445 (25.50%)

23. Please rate the instructor. (A = Excellent to E = Very Poor)
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	A (5)	B (4)	C (3)	D (2)	F (1)
27	4.74	0.45	20 (74.07%)	7 (25.93%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	A (5)	B (4)	C (3)	D (2)	F (1)
1746	4.15	1.03	842 (48.22%)	512 (29.32%)	249 (14.26%)	98 (5.61%)	45 (2.58%)

24. Tests were graded and returned promptly.
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Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	4.07	1.00	0 (0.00%)	3 (11.11%)	3 (11.11%)	10 (37.04%)	11 (40.74%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1741	4.20	0.84	22 (1.26%)	71 (4.08%)	136 (7.81%)	820 (47.10%)	692 (39.75%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

25. The grading was consistent and fair.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	3.81	1.04	0 (0.00%)	5 (18.52%)	2 (7.41%)	13 (48.15%)	7 (25.93%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1743	3.88	1.09	63 (3.61%)	190 (10.90%)	206 (11.82%)	719 (41.25%)	565 (32.42%)

26. The tests were a fair measure of the course material.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
27	3.15	1.20	1 (3.70%)	10 (37.04%)	4 (14.81%)	8 (29.63%)	4 (14.81%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Disagree (1)	Disagree (2)	No Opinion (3)	Agree (4)	Strongly Agree (5)
1733	3.58	1.23	117 (6.75%)	300 (17.31%)	236 (13.62%)	624 (36.01%)	456 (26.31%)

27. My effort in this course compared to other courses was:
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	Much More Challenging (5)	More Challenging (4)	About the Same (3)	Less Challenging (2)	Much Less Challenging (1)
27	3.96	0.94	9 (33.33%)	10 (37.04%)	6 (22.22%)	2 (7.41%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Much More Challenging (5)	More Challenging (4)	About the Same (3)	Less Challenging (2)	Much Less Challenging (1)
1744	3.74	1.01	457 (26.20%)	619 (35.49%)	466 (26.72%)	167 (9.58%)	35 (2.01%)

28. The grade I expect to receive in this course.
~
Question Type: Likert
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Mean	Std Dev	A (4)	B (3)	C (2)	D (1)	F (0)
27	3.11	0.80	9 (33.33%)	13 (48.15%)	4 (14.81%)	1 (3.70%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	A (4)	B (3)	C (2)	D (1)	F (0)
1737	3.17	0.81	672 (38.69%)	747 (43.01%)	256 (14.74%)	58 (3.34%)	4 (0.23%)

29. Your comments on the course:
~
Question Type: Short Answer
~
contributed by Department of Mathematics

Results for MATH-1220-005

Total	Individual Answers
18	*See below for Individual Results*

I liked it

None.

Hard course that could be made easier if the tests weren't as difficult

Test questions were much more difficult than the ones discussed in class

I wasn't aware the course touched on some calculus III so I was surprised.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

I thought it ventured to Calc III more than sticking with Calc II. Also I don't understand much of why it was called Applied Calculus.

Exams were way harder than the homework

The hardest I have ever worked in a math course and the worst I have ever done in a math course.

exams are very difficult but Mariano did a good job of trying to prepare us - takes a lot of outside work to do well though

assign TA/grad students to help students in need, or otherwise increase frequency of tutoring hours

n/a

Course material went from easy to absurdly difficult in about the third week and never got better

The course is very hard and graded very strictly. A more generous curve would be appropriate.

The tests need to be graded easier. Especially if they are not curved half the time.

This course is very challenging, but very interesting

It could have been my favorite class, if it weren't for the exams.

The tests were unfairly harder than the textbook and webassign problems.

Very difficult. There was a lot to take in in just one semester.

30. Your comments on the instructor:
~
Question Type: Short Answer
~
contributed by Department of Mathematics

Results for MATH-1220-005	
Total	Individual Answers
20	*See below for Individual Results*

Well prepared, confident, interested

Mariano is very helpful and knowledgable. If I were to take any future math courses I would want them to be taught by him.

Although this course is very challenging, professor Echeverria is so hands on and so amazing he really helped me enjoy this course. He is a great guy and a great teacher!

Great professor, really nice guy, always available

Very helpful outside of class and showed genuine interest in student's learning.

Very friendly, organized, and generous.

He is a very considerate and articulate lecturer. It is obvious he thoroughly understands the material and is good at explaining even the most difficult concepts.

He was excellent, very easy to understand.

Mr. Echeverria did a nice job handling the class and being available for help. If we has issues he would help.

Pretty good

Amazing Instructor. The Professor had a firm grasp on the material and did an excellent job relating that material to the class. He even brought in props to demonstrate concepts occasionally.

Echeverria is a great instructor. He was very excited about the materials and always gave a lot of examples in class. He was very helpful in office hours and seemed genuinely interesting in wanting us to do w ell

enthusiastic, approachable, fair, wants us to succeed

Mariano was always willing and happy to help students. He did write a lot on the board, which I feel took a lot of time away from potentially doing more examples.

Very enthusiastic about the material

Knowledgeable, fair, caring, and an effective instructor

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

Mariano Echavarria is by far the best math instructor I've ever had. He's enthusiastic, intelligent, approachable, and will do anything to ensure that his students all have an equal chance of succeeding.

Professor Echevaria is very nice and friendly instructor who makes sure any problem a student has for him is solved.

He was great.

Excellent! Very knowledgable and interesting to learn from.

31. Your comments on the textbook, readings, and tests:
~
Question Type: Short Answer
~
contributed by Department of Mathematics

Results for MATH-1220-005	
Total	Individual Answers
20	*See below for Individual Results*

Tests were extremely difficult.

Tests were very difficukt

I've basically never used the textbook this semester and I feel like the tests are hard. However, it's most likely just the nature of the course.

The tests were exponentially harder than the practice exams, and sometimes were not a great measure of our understanding of the material.

The exams were so much harder than the practice ones.

N/A

My textbook was rarely used. Tests were quite challenging but not absurdly challenging.

Tests were much more difficult than practice tests and questions gone over in class

Didn't use the textbook much. Test material didn't always reflect material in class

Tests were difficult, the textbook was not very helpful.

I never used the textbook because the required notes were always given in class. Thes tests were very difficult in comparison to the class/homework

Tests were much more difficult than any of the other assignments.

I did not love the textbook

Textbook useless. Tests fair.

They were all relevant to each other.

The tests were unfairly harder than the textbook and webassign problems.

I didn't use the textbook more than 2 times in the semester. The tests were tough

exams are very hard and grading is petty. Textbook isn't super useful for a subject like math

Text wasn't helpful in my opinion as it was directly related to Web-assign

did not use the textbook often; tests were very difficult.

32. The average number of hours per week I spent outside of class preparing for this course was:
~
Question Type: Multiple Choice
~
contributed by Office of the Provost

Results for MATH-1220-005					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
27	1 (3.70%)	8 (29.63%)	11 (40.74%)	6 (22.22%)	1 (3.70%)

Results for Mathematics Courses - Fall, 2016					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
1737	50 (2.88%)	555 (31.95%)	779 (44.85%)	269 (15.49%)	84 (4.84%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

33. I learned a great deal in this course.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
27	4.26	0.71	11 (40.74%)	12 (44.44%)	4 (14.81%)	0 (0.00%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1735	3.84	0.98	439 (25.30%)	813 (46.86%)	291 (16.77%)	150 (8.65%)	42 (2.42%)

34. Overall, this was a worthwhile course.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for MATH-1220-005

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
26	4.04	0.77	7 (26.92%)	14 (53.85%)	4 (15.38%)	1 (3.85%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1729	3.68	1.11	428 (24.75%)	686 (39.68%)	337 (19.49%)	195 (11.28%)	83 (4.80%)

35. The course's goals and requirements were defined and adhered to by the instructor.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for MATH-1220-005, Echeverria Echeverria, Mariano

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
27	4.70	0.47	19 (70.37%)	8 (29.63%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1730	4.31	0.80	810 (46.82%)	716 (41.39%)	144 (8.32%)	44 (2.54%)	16 (0.92%)

36. The instructor was approachable and made himself/herself available to students outside the classroom.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for MATH-1220-005, Echeverria Echeverria, Mariano

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
27	4.96	0.19	26 (96.30%)	1 (3.70%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1730	4.35	0.88	940 (54.34%)	568 (32.83%)	140 (8.09%)	53 (3.06%)	29 (1.68%)

37. Overall, the instructor was an effective teacher.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for MATH-1220-005, Echeverria Echeverria, Mariano

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
27	4.74	0.45	20 (74.07%)	7 (25.93%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for Mathematics Courses - Fall, 2016

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1739	4.00	1.13	733 (42.15%)	559 (32.14%)	230 (13.23%)	141 (8.11%)	76 (4.37%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

38. Please make any overall comments or observations about this course:

~

Question Type: Short Answer

~

contributed by Office of the Provost

Results for MATH-1220-005	
Total	Individual Answers
15	*See below for Individual Results*

I really enjoyed this class this semester but the exams were really hard.

This course is hard and is much harder than it was via comparison to older exams.

This course covered a lot of topics but the pace was very reasonable. Some more time could have been spent on the more difficult topics.

Allow instructors more freedom to implement their own expertise/agenda. Uniformity is important, but only to a certain extent. Instructors employed by highly prestigious universities such as this one should be trusted to teach as they see fit.

Mariano tries to make the class as painless as possible. It's too bad that my exam grades are going to inaccurately reflect my experience in the class.

N/A

The Exams are very difficult, but everything else, in the case of my instructor, was straight forward.

n/a

I enjoyed this course

The exams were very difficult, but I guess that's just math. My instructor was great, and the class was well run.

Annoyed with how much more difficult the tests were compared to the rest of the work. I always found that I understood each concept however, the problems on the test went beyond the concept and were so much harder to do

thanks Mariano!

Great teacher and guy

Test questions were much harder than ones gone over in lecture and ones on practice tests

The tests were unfairly harder than the textbook and webassign problems.