

## Spring 2015

### Math165, Calculus II (n=7)

For each question (except those as noted), the choices were:

(3) Strongly Agree, (2) Agree, (1) Disagree, (0) Strongly Disagree.

| Question   | Mean Response   | Standard Deviation |
|--|---|--------------------|
| 1: I have attended all or just about all of the lectures.  | 3.00  | 0.00               |
| 2: I found the lectures to be mostly understandable.   | 2.43  | 0.53               |
| 3: I found most of the lectures to be enjoyable.   | 2.29  | 0.49               |
| 4: I thought the number of examples given in lectures was...                                       | too many: 0%<br>about right: 100%<br>too few: 0%  |                    |
| 5: I thought the pace of this class was...   | too fast: 42.9%<br>about right: 57.1%<br>too slow: 0%   |                    |
| 6: I thought this course was organized well.   | 2.43  | 0.53               |
| 7: I thought a reasonable amount of homework was being assigned.                                   | 1.86  | 0.38               |
| 8: I thought the individual homework problems assigned were at a reasonable level of difficulty.   | 1.57  | 0.53               |
| 9: I think using WebAssign is an effective way of doing homework for this class.                   | 2.14  | 0.69               |
| 10: I thought the quizzes were at a reasonable level of difficulty.                                | 2.43  | 0.53               |
| 11: I thought the exams were at a reasonable level of difficulty.                                  | 2.29  | 0.95               |
| 12: I found the pre-quiz discussion sessions to be beneficial to my learning.                      | 2.57  | 0.53               |
| 13: I found the sample exam review sessions to be beneficial to my learning.                       | 2.71  | 0.49               |
| 14: I thought the instructor had the appropriate level of enthusiasm and energy.                   | 2.71  | 0.49               |
| 15: I found the instructor's responses to my questions to be helpful.                              | 2.57  | 0.53               |
| 16: I found the instructor to be effective in teaching the subject matter.                         | 2.86  | 0.38               |
| 17: I thought the instructor cared about my progress in the course.                                | 2.14  | 0.69               |
| 18: The instructor clearly explained the concepts of the class.                                    | 2.57  | 0.53               |
| 19: The instructor was available outside the class to help me.                                     | 2.17  | 0.75               |
| 20: This course is what I expected it to be.   | 2.29  | 0.49               |
| 21: I felt like this course was relevant to my major.  | 2.14  | 1.07               |
| 22: In comparison to other courses I have taken, I found this course to be                         | a higher level of intellectual challenge:<br>71.4%<br>a similar level of intellectual challenge:<br>28.6%<br>a lower level of intellectual challenge:<br>0% |                    |
| 23: If a friend of mine asked me about this instructor, I would recommend taking a class from him. | 2.43  | 0.53               |
| 24: Overall, I thought this was a good course.   | 2.29  | 0.49               |

|  |      |      |
|--|------|------|
| 25: I have a good idea of what my current grade in this class is.                | 2.14 | 0.38 |
| 26: I think my current grade in this class adequately represents my performance. | 2.14 | 0.69 |

### *Representative Comments*

27: What do you think most contributed to your success in this class?

- Going to all of the lectures and completing all the homework thoroughly
- Plenty of in class examples & enough time to do homework and ask questions before quizzes & exams
- Instructor's enthusiasm & willingness to answer my dumb questions

28: What do you think most contributed to any troubles you had in this class?

- Inadequate studying or preparation. Also could have been not paying attention in class or not paid attention to the homework
- The pace that you go from example to example
- The test questions were sometimes different than the example problems

29: Do you have any suggestions that may be helpful for the next time this course is taught?

- Maybe spend a little time going over most frequently missed questions after each quiz or exam
- Make tests worth less of your grade
- More group activities
- Not really
- Split the homework into smaller assignments
- Don't explain too fast because not all the international students can get the idea when you are explaining so fast.

30: Do you have any advice to give to students in the first week of this class in future semesters?

- Listen to the lectures and you will do fine.
- Stick with the class, the stuff you learn changes so you always have a chance to pick up your grade
- Do homework the day you learn that subject instead of right before it's due
- Make sure to come to class and to take good notes!
- Ask questions even if you think they're dumb; find a way to be interested & personally invested in course material; study, study, study.

31: Any additional comments?

- Overall, great course!

- Thanks!!
- Easily the best math course I've ever taken. Will be back for more of Dr. Errthum's classes

## Math327, Foundations of Mathematics (n=11)

For each question (except those as noted), the choices were:

(3) Strongly Agree, (2) Agree, (1) Disagree, (0) Strongly Disagree.

| Question  | Mean Response   | Standard Deviation |
|---|---|--------------------|
| 1: I attended all or just about all of the lectures.  | 2.18  | 0.87               |
| 2: I found the discussions to be mostly understandable.   | 2.18  | 0.60               |
| 3: I found most of the discussions to be enjoyable.   | 2.09  | 0.30               |
| 4: I thought the pace of this class was...  | too fast: 9.1%<br>about right: 81.8%<br>too slow: 9.1%  |                    |
| 5: I thought this course has been organized well.   | 2.18  | 0.87               |
| 6: I thought a reasonable amount of homework is being assigned.                                       | 2.20  | 0.42               |
| 7: I thought completing the homework was beneficial to my learning.                                   | 2.55  | 0.52               |
| 8: I thought the amount of feedback given on homework was ...   | plenty: 27.3%<br>enough: 63.6%<br>not enough: 9.1%<br>low: 0%   |                    |
| 9: I thought the instructor's comments on my homework were beneficial to my learning.                 | 2.64  | 0.50               |
| 10: I thought the Solow text was beneficial to my learning.   | 2.00  | 0.63               |
| 11: I thought the in-class activities were beneficial to my learning.                                 | 2.18  | 0.75               |
| 12: I thought the Midterm exam was at a reasonable level of difficulty.                               | 2.36  | 0.50               |
| 13: I usually did all my homework on paper first before rewriting/typing it up in LaTeX.              | 2.55  | 0.93               |
| 14: I found the revision process (e.g. correcting mistakes) in my homework beneficial to my learning. | 2.73  | 0.47               |
| 15: I am confident in my ability to produce a neat, mathematical piece of writing using LaTeX.        | 2.64  | 0.50               |
| 16: I thought the instructor has the appropriate level of enthusiasm and energy.                      | 2.82  | 0.40               |
| 17: I found the instructor's responses to my questions to be helpful.                                 | 2.82  | 0.40               |
| 18: I found the instructor to be effective in teaching the subject matter.                            | 2.64  | 0.50               |
| 19: I thought the instructor cared about my progress in the course.                                   | 2.55  | 0.69               |
| 20: The instructor clearly explained the concepts of the class.                                       | 2.60  | 0.52               |
| 21: The instructor was available outside the class to help me.  | 2.64  | 0.67               |
| 22: This course is what I expected it to be.  | 1.82  | 0.87               |
| 23: In comparison to other MATH courses I have taken, I found this course to be                       | a higher level of intellectual challenge:<br>90.9%<br>a similar level of intellectual challenge: 0%<br>a lower level of intellectual challenge:<br>9.1% |                    |
| 24: If a friend of mine asked me about this instructor, I would recommend taking a class from him.    | 2.64  | 0.50               |
| 25: Overall, I thought this was a good course.  | 2.45  | 0.52               |

## *Representative Comments*

31: What do you think most contributed to your success in this class?

- Office hours!!!
- Being able to correct mistakes on submissions. Seeing other proofs and evaluating them in class.
- Studying vocab & submitting regularly
- Having to struggle through things & getting feedback from peers
- The more submissions I did, the more I learned
- Logical & critical thinking. I love proofs.

32: What do you think most contributed to any troubles you had in this class?

- Missing classes and falling behind in submissions
- Not clearly understanding the material
- Concepts in general were tough, but Errthum was helpful.
- No hard deadlines for proofs

33: Do you have any suggestions that may be helpful for the next time this course is taught?

- Somehow add more structure to when certain submissions are due
- No, the course seemed to go pretty smooth.
- Do more examples in your lectures on the lexicon

34: What advice would you give to another student taking this course next time?

- Try to do 2 submissions a week from the beginning. Don't be afraid to ask for help.
- Do proofs and examples early and often, throughout the semester.
- Know your vocab!
- Keep up on solutions/examples. Don't be afraid to be wrong.
- Don't be afraid to get a proposition rejected. This is how you learn.

35: Any additional comments?

- Difficult course, but great teacher.
- Fun class. Great enthusiasm.
- I liked the course, everything was good. More inclass activities in groups.
- Enjoyed the submission process.

## Math347, Number Theory (n=7)

For each question (except those as noted), the choices were:

(3) Strongly Agree, (2) Agree, (1) Disagree, (0) Strongly Disagree.

| Question   | Mean Response  | Standard Deviation |
|--|--|--------------------|
| 1: I attended all or just about all of the lectures.   | 2.71   | 0.76               |
| 2: I found the lectures to be mostly understandable.   | 2.00   | 0.58               |
| 3: I found most of the lectures to be enjoyable.   | 2.00   | 0.58               |
| 4: I thought the number of examples given in lectures is...  | too many: 0%<br>about right: 71.4%<br>too few: 28.6%   |                    |
| 5: I thought the pace of this class was...   | too fast: 33.3%<br>about right: 66.7%<br>too slow: 0%  |                    |
| 6: I thought this course has been organized well.  | 2.29   | 0.49               |
| 7: I thought a reasonable amount of homework is being assigned.                                    | 2.00   | 0.58               |
| 8: I thought the individual homework problems assigned are at a reasonable level of difficulty.    | 1.67   | 0.52               |
| 9: I found the homework days beneficial to my learning.  | 2.57   | 0.53               |
| 10: I found the written homework beneficial to my learning.  | 1.86   | 0.69               |
| 11: I thought the quizzes were at a reasonable level of difficulty.                                | 2.33   | 0.52               |
| 12: I thought the exams were at a reasonable level of difficulty.                                  | 2.33   | 0.52               |
| 13: I thought the instructor has the appropriate level of enthusiasm and energy.                   | 2.57   | 0.53               |
| 14: I found the instructor's responses to my questions to be helpful.                              | 1.83   | 0.41               |
| 15: I found the instructor to be effective in teaching the subject matter.                         | 2.29   | 0.49               |
| 16: I thought the instructor cared about my progress in the course.                                | 1.83   | 0.41               |
| 17: The instructor clearly explained the concepts of the class.                                    | 2.43   | 0.53               |
| 18: The instructor was available outside the class to help me.                                     | 2.33   | 0.52               |
| 19: What percentage of your studying (homework or otherwise) is done in a group?                   | 0%: 0%<br>5-20%: 42.9%<br>25 - 50%: 0%<br>55 - 75%: 42.9%<br>80 – 100%: 14.3%  |                    |
| 20: This course is what I expected it to be.   | 1.71   | 0.49               |
| 21: I felt like this course was relevant to my major.  | 2.29   | 1.11               |
| 22: In comparison to other MATH courses I have taken, I found this course to be                    | a higher level of intellectual challenge:<br>71.4%<br>a similar level of intellectual challenge:<br>28.6%<br>a lower level of intellectual challenge: 0% |                    |
| 23: If a friend of mine asked me about this instructor, I would recommend taking a class from him. | 2.29   | 0.49               |
| 24: Overall, I thought this was a good course.   | 2.14   | 0.69               |

### *Representative Comments*

31: What do you think most contributed to your success in this class?

- The lectures
- Oral homework days. Completing the homework.
- The instructor is very enthusiastic
- Doing & seeing examples in class

32: What do you think most contributed to any troubles you had in this class?

- Felt like I couldn't talk to you outside of class
- The written homework
- Amount of homework & didn't relate to what we went over in class

33: Do you have any suggestions that may be helpful for the next time this course is taught?

- Have more proofs so it's not so scary
- Slow down a bit
- Predict tough content and arrange appropriate time for it.

34: What advice would you give to another student taking this course next time?

- Build a relationship with the professor
- Start homework as soon as you get it
- Go to the oral HW days!
- Read the chapters
- Come to class as much as you can

35: Any additional comments?

- Easily my favorite math course I've ever taken.

**Math395, Calculus II (n=7)**  
**(co-taught with Chris Malone, cross-listed as STAT395)**

For each question (except those as noted), the choices were:

(3) Strongly Agree, (2) Agree, (1) Disagree, (0) Strongly Disagree.

| Question   | Mean Response   | Standard Deviation |
|--|---|--------------------|
| 1: I have attended all or just about all of the lectures.  | 2.00  | 0.82               |
| 2: I found the lectures to be mostly understandable.   | 2.71  | 0.49               |
| 3: I found most of the lectures to be enjoyable.   | 2.33  | 0.52               |
| 4: I thought the pace of this class was...   | too fast: 0%<br>about right: 100%<br>too slow: 0%   |                    |
| 5: I thought this course was organized well.   | 1.57  | 0.53               |
| 6: I thought a reasonable amount of homework was being assigned.                                   | 2.00  | 0.00               |
| 7: I thought the individual homework problems assigned were at a reasonable level of difficulty.   | 2.29  | 0.49               |
| 8: I thought the instructor had the appropriate level of enthusiasm and energy.                    | 2.14  | 0.69               |
| 9: I found the instructor's responses to my questions to be helpful.                               | 2.29  | 0.49               |
| 10: I found the instructor to be effective in teaching the subject matter.                         | 2.17  | 0.41               |
| 11: I thought the instructor cared about my progress in the course.                                | 2.71  | 0.49               |
| 12: The instructor clearly explained the concepts of the class.                                    | 2.50  | 0.55               |
| 13: The instructor was available outside the class to help me.                                     | 2.71  | 0.49               |
| 14: This course is what I expected it to be.   | 2.40  | 0.55               |
| 15: I felt like this course was relevant to my major.  | 2.57  | 0.53               |
| 16: In comparison to other courses I have taken, I found this course to be                         | a higher level of intellectual challenge:<br>0%<br>a similar level of intellectual challenge:<br>42.9%<br>a lower level of intellectual challenge:<br>57.1% |                    |
| 17: If a friend of mine asked me about this instructor, I would recommend taking a class from him. | 2.57  | 0.53               |
| 18: Overall, I thought this was a good course.   | 2.14  | 0.69               |

*Representative Comments*

19: What do you think most contributed to your success in this class?

- Writing formally. Relaxed pace.
- The class was relaxed, and small size so everyone communicates well
- Asking questions and getting assignments done.
- Helpful professors and good group of students (small class)
- The good pacing and constructive criticism on assignments

20: What do you think most contributed to any troubles you had in this class?

- Given examples of what wanted done.
- No troubles
- procrastinating

21: Do you have any suggestions that may be helpful for the next time this course is taught?

- Section on grad school
- If someone is Math/Stat maybe have them get more of a hint of both sides
- Be more organized and on the same page about assignment dates.
- Maybe more options of seminars since noon on Wednesday doesn't always work – online options
- More emphasis on researching than just writing a paper about a past assignment

22: Do you have any advice to give to students in the first week of this class in future semesters?

- Be comfortable with speaking w/ your peers.
- Have an idea of easy topics you know well that you could potentially present and/or write a paper on
- For presentations pick a topic that you fully understand.
- Brainstorm speech & paper topics early!!

23: Any additional comments?

- Good teamwork
- Field trip!!!
- Thanks for the neat-o class!
- Students should know this class exists sooner.