

May 2015

**Math140, Applied Calculus (n=10)**

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.		2.00	0.82
3: I found most of the lectures to be enjoyable.		2.00	0.71
4: I thought the number of examples given in lectures was...		too many: 0% about right: 80% too few: 20%	
5: I thought the pace of this class was...		too fast: 20% about right: 80% too slow: 0%	
6: I thought this course was organized well.		2.00	0.47
7: I thought a reasonable amount of homework was being assigned.		1.60	0.84
8: I thought the individual homework problems assigned were at a reasonable level of difficulty.		1.90	0.32
9: I thought the homework assignments were at a reasonable level of difficulty.		1.80	0.42
10: I thought the quizzes were at a reasonable level of difficulty.		1.90	0.57
11: I thought the exams were at a reasonable level of difficulty.		1.40	0.84
12: I found the previous exams helpful in my studying.		1.50	0.97
13: I thought the instructor had the appropriate level of enthusiasm and energy.		2.80	0.42
14: I found the instructor's responses to my questions to be helpful.		2.40	0.52
15: I found the instructor to be effective in teaching the subject matter.		2.20	0.79
16: I thought the instructor cared about my progress in the course.		1.70	1.16
17: The instructor clearly explained the concepts of the class.		1.80	0.92
18: The instructor was available outside the class to help me.		1.67	0.50
19: This course is what I expected it to be.		1.70	0.67
20: I felt like this course was relevant to my major.		1.44	0.88
21: In comparison to other courses I have taken, I found this course to be		a higher level of intellectual challenge: 77.8% a similar level of intellectual challenge: 22.2% a lower level of intellectual challenge: 0%	
22: If a friend of mine asked me about this instructor, I would recommend taking a class from him.		2.00	1.22
23: Overall, I thought this was a good course.		1.78	1.20

## *Representative Comments*

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

- Group studies
- Paying attention/always showing up/doing the hw
- The teacher did a very good job of explaining
- The way how you broke up concepts really helped me learn the material.
- Reading from the book & reviewing the lecture notes!
- The organization of the material. I thought it was easier tying everything together in a 3 week course. I think a reg. term class would have been more difficult
- I like how he printed notes for the class. It made it easier to study. I also liked how he had study guides and posted the solution

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

- Too fast paced, overlapping material
- Just the fact that it was a May term class & had to be fast-paced
- Time constraints and overload of HW
- No tutors available
- A lot of the homework questions didn't correlate with the notes in class

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

- Less chapters
- No, I thought that it was very well taught and he has a lot of energy
- Not quite as many HW problems
- Homework that reflects quiz & exam!
- It was good, I liked having the option to start the exams a little early so we weren't rushed.

27: Do you have any advice you would give to students in the first week/day of this class in future semesters?

- Do you really need this course?
- Always do the hw
- Plan accordingly
- Do the homework, ask questions, and go to class.
- Work hard!!

28: Any additional comments?

- Great professor
- Good job and I had a good 3 weeks

- Thank you for a wonderful class.
- You can't have a Calc class & no tutor!!!
- College Algebra should NOT be a pre req for this class. Wasn't helpful at all.

## Fall 2015

### Math140, Applied Calculus (n=23) (Section 01)

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.	2.83	0.49
2: I found the lectures to be mostly understandable.	2.04	0.64
3: I found most of the lectures to be enjoyable.	1.70	0.63
4: I thought the number of examples given in lectures was...	too many: 0% about right: 69.6% too few: 30.4%	
5: I thought the pace of this class was...	too fast: 30.4% about right: 69.6% too slow: 0%	
6: I thought this course was organized well.	2.17	0.49
7: I thought a reasonable amount of homework was being assigned.	1.96	0.47
8: I thought the individual homework problems assigned were at a reasonable level of difficulty.	1.70	0.76
9: I thought the homework assignments were at a reasonable level of difficulty.	1.65	0.71
10: I thought the quizzes were at a reasonable level of difficulty.	1.83	0.49
11: I thought the exams were at a reasonable level of difficulty.	1.52	0.79
12: I found the previous exams helpful in my studying.	1.68	0.65
13: I thought the instructor had the appropriate level of enthusiasm and energy.	2.26	0.69
14: I found the instructor's responses to my questions to be helpful.	2.35	0.49
15: I found the instructor to be effective in teaching the subject matter.	2.22	0.74
16: I thought the instructor cared about my progress in the course.	1.70	0.70
17: The instructor clearly explained the concepts of the class.	2.18	0.85
18: The instructor was available outside the class to help me.	2.22	0.42
19: This course is what I expected it to be.	1.61	0.58
20: I felt like this course was relevant to my major.	1.74	0.92
21: In comparison to other courses I have taken, I found this course to be	a higher level of intellectual challenge: 73.9% a similar level of intellectual challenge: 26.1% a lower level of intellectual challenge: 0%	
22: If a friend of mine asked me about this instructor, I would recommend taking a class from him.	1.83	0.98
23: Overall, I thought this was a good course.	1.83	0.78

## *Representative Comments*

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

- Tutoring, really focusing on this class, a lot of studying
- Going to class
- The notes
- Studying examples
- Taking Calculus 1 before was a big help
- Examples in class were effective and clear in its methods. Concepts were thoroughly explained before going into the content
- Studying and reviewing the quizzes/exams as well looking over the problems that were done in class

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

- Reviewing a lot
- Homework
- The exams were difficult
- Not understanding concepts
- I was instructed to take this class before taking precalculus
- You went too fast sometimes and skipped through some steps when teaching a concept
- If I wasn't focused the whole time, it is easy to get lost because so much material is covered in one class period

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

- Test scores are commonly low, maybe better prepare
- Show some harder examples to prepare better for quizzes and exams
- Give less hw or make exams more generally conceptual
- Make the homework more like the examples in notes/book
- Keep doing your thing

27: Do you have any advice you would give to students in the first week/day of this class in future semesters?

- Take this course seriously, it's a lot of work but pays off if you put the adequate time in
- Go to class
- Always do all homework, its easy pts
- Study double what you think you should, know concepts inside and out
- Study hard and get help from tutors and the professor
- Take notes and study them

- Quickly switch to another professor. If you can't, be ready to go to the MAC at least once a week.
- Know concepts from past units, they can apply to things in units to come.
- Focus in lecture & study outside of class

28: Any additional comments?

- Really enjoyed class
- Very good professor
- I think a class average of 55% on Exam 2 (before the reclaim) was ridiculous. A class average should not be that low.
- You are great at teaching the subject, but perhaps expect too much out of many students who simply are required to take this course.

## Math140, Applied Calculus (n=21) (Section 04)

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.	2.81	0.40
2: I found the lectures to be mostly understandable.	2.24	0.54
3: I found most of the lectures to be enjoyable.	1.95	0.71
4: I thought the number of examples given in lectures was...	too many: 0% about right: 95% too few: 5%	
5: I thought the pace of this class was...	too fast: 25% about right: 70% too slow: 5%	
6: I thought this course was organized well.	2.29	0.46
7: I thought a reasonable amount of homework was being assigned.	2.14	0.57
8: I thought the individual homework problems assigned were at a reasonable level of difficulty.	1.90	0.64
9: I thought the homework assignments were at a reasonable level of difficulty.	1.76	0.62
10: I thought the quizzes were at a reasonable level of difficulty.	1.90	0.79
11: I thought the exams were at a reasonable level of difficulty.	1.85	0.75
12: I found the previous exams helpful in my studying.	1.90	0.72
13: I thought the instructor had the appropriate level of enthusiasm and energy.	2.52	0.51
14: I found the instructor's responses to my questions to be helpful.	2.43	0.60
15: I found the instructor to be effective in teaching the subject matter.	2.43	0.51
16: I thought the instructor cared about my progress in the course.	2.05	0.60
17: The instructor clearly explained the concepts of the class.	2.24	0.54
18: The instructor was available outside the class to help me.	2.33	0.58
19: This course is what I expected it to be.	1.89	0.66
20: I felt like this course was relevant to my major.	1.38	0.92
21: In comparison to other courses I have taken, I found this course to be	a higher level of intellectual challenge: 66.7% a similar level of intellectual challenge: 33.3% a lower level of intellectual challenge: 0%	
22: If a friend of mine asked me about this instructor, I would recommend taking a class from him.	2.20	0.41
23: Overall, I thought this was a good course.	2.25	0.44

### Representative Comments

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

- The way the class was taught by a great professor

- Studying/Reviewing notes before tests
- Tutor
- Good effort and homework
- WileyPlus
- Developing study methods that allowed me to recognize problems and how to solve them
- The instructor made it fun to listen to lecture

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

- Homework was hard sometimes
- Not studying enough
- I didn't take PreCalc in High School
- Definitely missing any classes
- Falling behind on homework/not studying enough

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

- Nope
- Simplify the content of the questions
- Explain multiple times
- More time on quizzes
- More examples in class, force students to learn calculator better

27: Do you have any advice you would give to students in the first week/day of this class in future semesters?

- Do the homework it helps your grade
- For tests, don't study homework, study notes
- Don't worry about bad quiz grades, they are a lesson in itself
- Go to a tutor right away
- Come to every class
- Don't underestimate the course

28: Any additional comments?

- I loved Prof. Errthum as a teacher! 😊
- I really enjoyed your teaching style and I had a lot of fun in this class.
- No.



## Math213, Calculus II (n=16)

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.	2.94	0.25
2: I found the lectures to be mostly understandable.	2.27	0.70
3: I found most of the lectures to be enjoyable.	2.00	0.53
4: I thought the number of examples given in lectures was...	too many: 0% about right: 100% too few: 0%	
5: I thought the pace of this class was...	too fast: 18.8% about right: 81.3% too slow: 0%	
6: I thought this course was organized well.	2.31	0.60
7: I thought a reasonable amount of homework was being assigned.	2.38	0.50
8: I thought the individual homework problems assigned were at a reasonable level of difficulty.	1.94	0.68
9: I think using WebWork is an effective way of doing homework for this class.	2.13	0.62
10: I thought the quizzes were at a reasonable level of difficulty.	2.00	0.63
11: I thought the exams were at a reasonable level of difficulty.	2.06	0.57
12: I found the pre-quiz discussion sessions to be beneficial to my learning.	2.31	0.60
13: I found the sample exam review sessions to be beneficial to my learning.	2.56	0.51
14: I thought the instructor had the appropriate level of enthusiasm and energy.	2.56	0.63
15: I found the instructor's responses to my questions to be helpful.	2.38	0.81
16: I found the instructor to be effective in teaching the subject matter.	2.53	0.74
17: I thought the instructor cared about my progress in the course.	2.00	1.00
18: The instructor clearly explained the concepts of the class.	2.31	0.95
19: The instructor was available outside the class to help me.	2.56	0.51
20: This course is what I expected it to be.	2.25	0.68
21: I felt like this course was relevant to my major.	2.38	0.62
22: In comparison to other courses I have taken, I found this course to be	a higher level of intellectual challenge: 87.5% a similar level of intellectual challenge: 12.5% 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.	2.13	1.09
24: Overall, I thought this was a good course.	2.44	0.63
25: I have a good idea of what my current grade in this class is.	2.50	0.52
26: I think my current grade in this class adequately represents my performance.	2.06	0.93

### *Representative Comments*

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

- The bonus questions offered on every test/quiz
- Asking questions, studying
- Doing homework problems
- In class review for tests/quizzes

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

- The WebAssign problems were sometimes more challenging than things we learned in class
- Time management, 1<sup>st</sup> “adult math class”
- Not studying enough. Need to do more problems
- I was slow at understanding some of the concepts in class
- Professor going to fast or wont help answer refreshing questions
- The instructor’s view of having students prove themselves to him.
- Bad Pre-Calc/Average algebra background mixed with different instructor.

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

- None. Very well taught
- More real world problems
- No not really, I really enjoyed the lectures
- Perhaps a brief geometry review during the first week
- Slow down & explain

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

- Do the homework because it helps you review, Go to class
- Keep up with homework. DO NOT miss lectures. STUDY!
- Give yourself enough time to workout all the homework problems on webassign. Don’t try to do them all at once
- Try your best
- Be prepared

31: Any additional comments?

- Great job, love the enthusiasm
- I really did enjoy this class.
- This was a fun class to be a part of. 😊

## Math247, Discrete Mathematics (n=19)

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.		2.74	0.56
2: I found the lectures to be mostly understandable.		1.89	0.68
3: I found most of the lectures to be enjoyable.		1.72	0.67
4: I thought the number of examples given in lectures is...		too many: 10.5% about right: 52.6% too few: 36.8%	
5: I thought the pace of this class was...		too fast: 42.1% about right: 57.9% too slow: 0%	
6: I thought this course has been organized well.		1.47	0.84
7: I thought a reasonable amount of homework is being assigned.		1.79	0.71
8: I thought the individual homework problems assigned are at a reasonable level of difficulty.		1.28	0.83
9: I found the homework days beneficial to my learning.		2.32	0.48
10: I found the written homework beneficial to my learning.		1.74	0.87
12: I thought the exams were at a reasonable level of difficulty.		1.95	0.71
13: I thought the instructor has the appropriate level of enthusiasm and energy.		2.37	0.60
14: I found the instructor's responses to my questions to be helpful.		1.83	0.92
15: I found the instructor to be effective in teaching the subject matter.		1.83	0.92
16: I thought the instructor cared about my progress in the course.		1.83	0.92
17: The instructor clearly explained the concepts of the class.		1.61	0.70
18: The instructor was available outside the class to help me.		2.17	0.71
19: What percentage of your studying (homework or otherwise) is done in a group?		0%: 0% 5-20%: 15.8% 25 - 50%: 42.1% 55 - 75%: 10.5% 80 - 100%: 31.6%	
20: This course is what I expected it to be.		1.28	0.83
21: I felt like this course was relevant to my major.		1.74	0.99
22: In comparison to other MATH courses I have taken, I found this course to be	a higher level of intellectual challenge: 72.2% a similar level of intellectual challenge: 22.2% a lower level of intellectual challenge: 5.6%		
23: If a friend of mine asked me about this instructor, I would recommend taking a class from him.		1.71	0.85
24: Overall, I thought this was a good course.		1.63	0.76

## *Representative Comments*

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

- Working hard and going to every class. I wouldn't go as far to call it success though. Unless not failing is a success. My goal was an A and I got a B so I failed.
- Taking notes
- Attend class. Do homework regularly
- Study group
- Being able to go into office hours & oral hw days
- Having prior knowledge
- Office hours
- All the examples we did in class

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

- Sometimes the lectures were confusing & he would just move on
- Written homework
- Not studying enough

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

- Written homework needs to not be impossible.
- Go slower and not so much homework. Even amount of oral & written, not a lot of both.
- Actually care about your students. Do your own assignments.
- Not really, the class seemed to be the issue

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

- Be prepared. Its Math247 but it felt like a Math 400 level course. Only reason I recommend it is because while Errthum can be kinda rough, the dude is hilarious. It's a love hate relationship. You get killed in the homeworks, but his humor was fantastic to me.
- Get a tutor if you don't know anything. Join a study group. Figure out Errthum's office hours.
- Read the textbook ahead of classes
- Don't procrastinate on homework
- Go in for help if you need it, don't just complain
- Go to his office hours. It may be difficult stuff, but he always helps when you see him in his office.

29: Any additional comments?

- See ya in Number Theory
- Have a good break!