



There were: 175 possible respondents.

	Question Text	N	RR	Avg	MATH Avg	MATH F18	Div Avg	Div F18	Sch Avg	Sch F18	Disagr	Mild Disagr	Mild Agree	Agree	Str Agree
Grp	Instructor Questions (MacArthur)			5.91	5.16		5.11	5.97	5.29	5.48					
Grp	Course Questions			5.82	5.04		4.98	5.86	5.15	5.25					
1	Objectives clearly stated	43	25%	5.88	5.17		5.11	5.17	5.24	5.35				12% (5)	88% (38)
2	Objectives met	43	25%	5.86	5.12		5.06	6	5.21	5.28			2% (1)	9% (4)	88% (38)
3	Content well-organized	43	25%	5.93	5.04		4.98	6	5.12	5.26				7% (3)	93% (40)
4	Course materials helpful	43	25%	5.79	4.96		4.92	6	5.11	5.25			2% (1)	16% (7)	81% (35)
5	Assignments & exams covered the course	43	25%	5.79	5.10		4.96	6	5.18	5.25			5% (2)	12% (5)	84% (36)
6	Learned great deal	43	25%	5.7	4.96		4.93	6	5.11	5.16				19% (8)	79% (34)
7	Overall effective course	43	25%	5.77	4.95		4.90	6	5.10	5.18			5% (2)	14% (6)	81% (35)
9	Instructor was organized (MacArthur)	43	25%	5.95	5.12		5.07	6	5.22	5.44				5% (2)	95% (41)
10	Instructor presented effectively (MacArthur)	43	25%	5.86	4.94		4.91	6	5.14	5.32			2% (1)	9% (4)	88% (38)
11	Instructor created respectful environment (MacArthur)	42	24%	5.95	5.24		5.20	5.8	5.35	5.49				5% (2)	95% (40)
12	Demonstrated thorough knowledge (MacArthur)	42	24%	5.95	5.34		5.31	6	5.44	5.65				5% (2)	95% (40)
13	Instructor encouraged questions/ opinions (MacArthur)	42	24%	5.93	5.19		5.15	6	5.35	5.54				7% (3)	93% (39)
14	Instructor available for student consultation (MacArthur)	42	24%	5.81	5.25		5.18	6	5.31	5.57			5% (2)	10% (4)	86% (36)
15	Overall effective instructor (MacArthur)	42	24%	5.93	5.06		5.02	6	5.24	5.43				7% (3)	93% (39)

Question: Comments on course effectiveness

It is SO refreshing to have a math teacher who puts such effort into their teaching. I have never enjoyed any class as much as I have enjoyed taking Calculus 2 from Kelly Macarthur - the flipped classroom coupled with well prepared problem sets, extremely organized websites and terribly well prepared lectures were the perfect storm prepared by this legendary math teacher.

flipped classroom was great for looking at lectures over and over, and working on problems in class helped me learn

Lecture videos were very helpful. Class discussions and interactions with other students were good as well.

Weekly homework assignments kept me on track without being overwhelmed with busy work. I also loved that we had specific notes to follow, as it helped to organize my learning process and organize my notes when going back to study.

The notes that she provided online were very helpful since they had exactly what information you needed on them. The online videos Kelly made were also super helpful in understanding concepts in the course. Kelly also allowed notecards on the exams which were very helpful and honestly more effective than if you were to memorize everything since in the real world you can't be expected to automatically have everything memorized. She made the course very applicable to real life which in turn made it easier to learn the material.

Kelly is a very good teacher, she presents the material well and tries really hard to make sure the classroom is a comfortable and respectful environment for everyone. She is my favorite math teacher I have ever had.

Everything was amazing in this class. It was organized, the note outlines were phenomenal, I LOVED the structure of this course. I loved the daily quizzes that made it necessary for us to keep up with homework and understanding of the mathematics.

I really enjoyed how the class period was very interactive and not just lecturing. I got a lot more out of each class. I also liked how the homework was set up, the daily quizzes and weekly homework was enough to help me practice and solidify my skills without making me feel overwhelmed.

I really liked the reverse classroom format, watching lectures before class. I also liked how the lecture videos were kept online along with pre- and post-video notes for easy reference later.

Was very insightful and constantly stimulated me with difficult but not discouragingly difficult material. Flipped classroom style allowed me to study material before hand and I think let me get a better grasp of the overall theme of the course.

Working on a WA with a group was really helpful for me. Also the daily quizzes were super helpful when I would do it with a group of students from my class.

This was the first math class in my college career where I genuinely wanted to show up every day purely because I understood that if I didn't, there was a good chance I wouldn't understand the course objectives. The flipped classroom helped a LOT.

working with classmates and discussions

-Flipped classroom -Learning assistants

The TAs and professor going around and working with students to solve problems that were part of the lecture helped me understand the materials better.

The online videos were the most helpful content because I could go back and watch videos if I was confused about a topic. Office hours were also effective, because Kelly was ready to help.

Her lecture notes are very well designed. All of the extra practice material on the website is excellent.

	<p>The flipped classroom structure was very helpful for me. It allowed me to more fully process things in class and actually helped me to remember things more easily as well, since I was exposed to them twice in a row. I really enjoyed the structure of this class!</p>
	<p>I loved having both a group and solo portion on exams The daily quizzes made sure I knew what I had learned that day</p>
	<p>I liked how the classroom was flipped (lectures through videos and in-class discussions) instead of a traditional way of teaching math through straight lecturing. I also liked how she provided small bits of required homework (less than 30 min a day, 3 days a week) and then also provided large amounts of optional homework that was not graded.</p>
	<p>great pre class videos good homework assignments</p>
	<p>Having multiple resources available to learn the material was very helpful. The flipped classroom setting was beneficial since we would spend most of the class time working on examples. My only suggestion is to offer more of an in-class re-cap of conic sections.</p>
	<p>The flipped classroom aspect is very helpful, as well as the examples we do in class. The group exams also feel very effective because they make us discuss math out loud and gain a better understanding for what we are doing.</p>
	<p>Flipped classroom and Group Tests.</p>
	<p>Two things that were effective for my learning were the fact that the professor was so kind, caring, and knowledgeable about her students and the material. The design of the course itself was all extremely helpful to my learning as well.</p>
	<p>Reversed classroom was very helpful and the class was very organized with clear expectations going into the semester.</p>
	<p>Group exams and whole class discussion</p>
	<p>I loved having the lectures online as they allowed to revisit problems that I had. I also loved the daily quizzes that allowed me to test my knowledge on a regular basis.</p>
	<p>course and coursework was clear throughout semester and adequately prepared for each exam.</p>
	<p>I appreciate the frequency in which I had to complete course work. It allowed me to continually practice problems. I do wish the quizzes had multiple attempts and or longer time to complete them.</p>
	<p>Question: Instructor Comments</p>
MacArthur	<p>The real world examples of incredibly obscure topics still leaves me speechless - she had an example about cutting cakes that led to an understanding of infinite limits that is chillingly effective. The respectful and firm tone that Professor MacArthur set in the classroom will always leave her in my mind, a LEGENDARY teacher.</p>
MacArthur	<p>Kelly was amazing and restored faith in me that I could succeed in calculus. Her attitude and the fact that she accepted failure as part of the process really helped me to keep trying. Even after experiencing a depressive spiral that kept me away from class and hurt my performance, I knew that as long as I worked hard Kelly would help me get back to where I was. She deserves a raise.</p>
MacArthur	<p>Kelly has such a passion for Math and teaching, I found her enthusiasm to be somewhat contagious. I loved the focus on an inclusive, tolerant classroom. Also, the philosophical reflections in the weekly announcements were really helpful/inspiring. Overall, Kelly is the best Math teacher I've ever had (like, by a lot!!)</p>
MacArthur	<p>Kelly took the time to learn every student's names and always made lectures very fun and interesting!</p>
MacArthur	<p>Kelly has a technique where she always follows the train of thought or idea presented by a student even when she knows the technique won't work to solve the problem. This was extremely helpful in discovering how to deduct a good problem-solving strategy, and since many other students had a similar initial thought we could find the errors ourselves allowing us to truly internalize the information.</p>

MacArthur	I really appreciated Professor MacArthur's patient and friendly demeanor. She did a great job of making her classroom feel like a warm and welcoming environment, which is an especially serious achievement for a math class. I also really liked getting prompt feedback on class quizzes. It was a good way to gauge my understanding and make immediate corrections.
MacArthur	Kelly is fabulous! She is very good at helping students feel confident in their ability to succeed and helping them discover personally what they need to do to succeed. She is never negative about anyone or anything and encourages her students to do the same. I think she not only is an incredible instructor but an incredible example of a good person and worthy role model.
MacArthur	Probably the most incredible professor I have ever had the privilege of learning from. The most personable math professor, as well as the most knowledgeable about math that I have ever known. Whatever she said was right, I knew it was correct without a doubt. (wish I could say this about physics). I felt comfortable to make comment and take chances, as it truly was a respectful, failure-tolerant classroom.
MacArthur	Kelly really tries to create a respectful classroom environment.
MacArthur	Very efficient with her time--was amazed how much material Kelly was able to meaningfully convey in such a short amount of time. Made an active effort to learn students' names. This was very admirable and made the experience all the more pleasurable.
MacArthur	Kelly is invested in her students learning and is committed to learning 200+ students names. She is enthusiastic and shows up ready to teach everyday. She engages math as an art and presents it in a similar fashion. She makes math exciting and interactive in the environment she creates. She allows the classroom to be a community with students that love to learn and that are not afraid to fail.
MacArthur	The professor was very supportive of students and successfully created a supportive learning environment for students. I think the most effective part of the course is when TAs and the professor went around and sat down with groups of students to solve problems on the board, I think that doing more or longer problems of those could improve the course environment even more.
MacArthur	Loved the way we would constantly review the material and go over the solutions and detailed answers.
MacArthur	The homework assignments were often too difficult which hindered my learning.
MacArthur	-Effective communicator -Willing to help anyone
MacArthur	Professor MacArthur is one of the only math professors I've had that understands how to teach the subject correctly. I couldn't do it for my life, and I'm not entirely sure why she's so good at it. If I had to give any constructive criticism it would be to show other ways of solving problems, but even then that was shown a lot throughout the semester.
MacArthur	She created a very kind, brave, inclusive, failure-welcome classroom. I learned so much from her instruction. I didn't feel afraid to ask questions in class, or to try things and do them wrong, even in front of the whole class. Everyone learned together and she facilitated that very well. Kelly is, without a doubt, the best math teacher I have ever had.
MacArthur	She is very knowledgeable about the material and extremely enthusiastic about it. She breeds a class environment unlike any other class I've taken. Very inclusive and she goes the extra mile to make everyone feel welcomed and comfortable in the classroom.
MacArthur	Super organized and eager to help at all times
MacArthur	I have no suggestions. Kelly is by far the best professor I have had in college for any subject.
MacArthur	Kelly should probably teach other instructors because she is one of the most effective I have had.
MacArthur	Kelly is a fantastic professor and cared deeply for the students well being as well as ensuring an understanding of the material within the course.
MacArthur	Great teacher, class setup really helped me succeed and any questions asked during the semester were answered with confidence. I am planning to take more classes with her in the future.
MacArthur	The professor was well organized and overall a phenomenal teacher. She encouraged participation, cared about our learning, and truly set us up for success. She should keep doing exactly what she's doing.

MacArthur	Enthusiastic about math and willing to answer questions until a student had a complete understanding
MacArthur	Amazing professor!! Great class that was taught very well!
MacArthur	Very clearly wanted all students to succeed and very always willing to help students.
MacArthur	Lectures were phenomenal. It would be really cool if you started doing live stream lectures.
MacArthur	Kelly's enthusiasm for mathematics honestly made me more excited to learn math earn class. She relates very well with the class and makes math more approachable, understanding that people aren't perfect and that math is difficult. Kelly also uses very good examples when teaching math, trying to build upon the things we've learned in previous math classes to give us a cohesive understanding.
MacArthur	Kelly explained things in a way that really helped me understand the material. She has been the first math professor I have had that actually explained what the point of the course material is. Knowing why you are doing something helps tremendously when you are stuck on a problem.
MacArthur	explain material well. Great environment for learning
MacArthur	Kelly is a respectful, great teacher who was able to explain much of the course material in an easily understood manner. She helped me take more of an interest in math due to her fun personality. She is a great professor!
MacArthur	Kelly is AMAZING. Her respect for the subject and the students is apparent and creates a wonderful learning environment. Creates a place where it's okay to be wrong as long as you're trying.
Question: Feelings about math	
MacArthur	I authentically ENJOY mathematics - it has left me curious and eager to move on in math studies. I feel as if I have been empowered a great deal and I'm grateful for it.
MacArthur	It seems possible for me to learn now, instead of the overwhelming wall of incapability I faced before.
MacArthur	After getting an A in Calc I, I was like okay, maybe I can do this CS thing after all. I was still kind of freaked out about Calc II and higher, but after this class I have so much more confidence and actually am really looking forward to Calc 3, linear algebra, etc.
MacArthur	Before taking this course I hated math and I was not very good at it, but while taking this course I realized I actually understood what was being taught because Kelly's teaching style made it easier for me to learn so I actually came out of this course enjoying math.
MacArthur	After taking this course I can honestly say that I enjoy math and I feel that I am able to learn it if I choose to.
MacArthur	I loved math before, and I love it still. Thank you Kelly!!
MacArthur	Kelly helps me enjoy math, math has never come easy to me but I really like her as a person and she is a good teacher.
MacArthur	I'm less afraid of math. I'm less likely to blow off a concept as something that's just hard that I just have to muddle my way through. This class has helped me be more confident in my abilities to understand and succeed in mathematics. I think Kelly played a huge role in that simply by the way she structures her class and her attitude about math.
MacArthur	My attitude has shifted slightly for the better. I feel pretty good about it. It's definitely something I have to work hard at, but I can do it and find it rewarding.
MacArthur	No
MacArthur	I have much more appreciation for math than I did going into the course.
MacArthur	I came into this class without having taken a math class in four years. I have always loved math, but I was very nervous to take the class. I left this class very confident in my mathematical abilities. There was definitely a positive change in my attitude toward mathematics.
MacArthur	I definitely feel more confident in my mathematical abilities and my ability to solve problems that may not look like ones I am used to.

MacArthur	This course definitely brought back to enjoying mathematics again. Loved this course
MacArthur	Stayed the same.
MacArthur	-I enjoyed mathematics before, and I enjoy it even more now
MacArthur	After taking this course the confidence in my ability to do math related subjects has skyrocketed. I enjoy doing math problems.
MacArthur	My attitude has not changed input math because I usually have a good attitude about math.
MacArthur	I have always had a strong liking for mathematics. This has only strengthened it.
MacArthur	Before the class started I was worried that it was going to be the hardest class I have ever taken and that I would have a hard time passing (from other student experiences). The class is hard but if you put in the work, you can understand the material. My attitude about math is that you get what you put into it (& having a really good professor helps too).
MacArthur	I like math more.
MacArthur	I suppose it has improved, but I already enjoyed math a lot. Kelly definitely helped to make doing math, and especially homework, a lot more enjoyable and bearable.
MacArthur	It definitely made me more confident in my ability to do math and think critically about number problems.
MacArthur	I feel much more positive.
MacArthur	I've always enjoyed math and this class made me remember that I still do enjoy math. I've also formed a new respect for math and its capabilities.
MacArthur	I like math more, after taking this course.
MacArthur	I definitely feel more open to talking about mathematics with my peers. I was already enthusiastic towards math, so I suppose my feelings didn't change in that sense, but it definitely reinforced those feelings.
MacArthur	Yes, she made me enjoy math much more than I used to.
MacArthur	My attitude has changed more toward optimism and joy in doing math
MacArthur	My attitude towards mathematics has improved as well as hopefully my knowledge of the subject material.
MacArthur	it stayed the same, I always enjoyed taking math classes.