

Columbia University: Arts & Sciences

A&S Spring 2023 Standard Evaluation

Course: MATHUN3028_001_2023_1 - PARTIAL DIFFERENTIAL EQUATIONS: MATHV3028_001_2023_1_162642
Instructor: Elena Giorgi *
TA: Tsz Kiu Aaron Chow, Anthony Coniglio, Jinghuan Lin
Response Rate: 32/77 (41.56%)

1 - What did you learn - in terms of knowledge, skills, or perspectives - in this course? The answer to this question will generally be available in Vergil.

Response Rate 7/77 (9.09%)

- PDE's and operations with PDE's
- Linear / non linear PDEs and examples Transport equations The Cauchy problem for PDEs and types of second order equations. The wave equation: D'Alembert formula, causality and energy, reflections of waves, waves with a source. The heat equation: maximum principle, the fundamental solution, heat equation with a source. Separation of variables Fourier series: convergence and Gibbs phenomenon The Laplace equation: maximum principle, separation of variables, Poisson's formula Green's identities and Green's functions. The wave equation in 3D: principle of causality, Kirchhoff's formula.
- Overview of partial differential equations. Transport equation, wave equation, best equation, separation of variables, fourier analysis, laplace equation, 3d wave equation, etc
- PDE
- Learned about Wave Equation, Diffusion Equation, Laplace Equation, and Fourier Series.
- Solving partial differential equations and learning their properties.
- heat equation, wave equation, solving pdes using separation of variables, fourier analysis, greens functions

2 - What percentage of the work (including reading) assigned for this course did you complete on schedule?

Response Option	Weight	Frequency	Percent	Percent Responses	Means
All or almost all	(1)	24	75.00%		
Most	(2)	8	25.00%		
Some	(3)	0	0.00%		
This question is not applicable	(4)	0	0.00%		
				0 25 50 100	
Response Rate					
32/77 (41.56%)					

3 - What is your overall assessment of the course? What are its strengths? In what ways might it be improved? In answering this question, you might address the value of readings and assignments, the structure of the course (including the relationship of sections to lectures), the contribution of the course to your knowledge of the subject matter and to the development of your analytical and reasoning skills, etc. We encourage you to use specific examples where possible.

Response Rate 5/77 (6.49%)

- I mean it's alright
- Learn a lot, class is a lot of proofs and derivations but key concepts are all covered. Homework can be challenging with a couple of pretty hard questions throughout the semester.
- Good
- Typical lecture-based course, but very fast-paced. The lectures deviate from the textbook somewhat.
- It was a good class. Classes focussed on proofs, but exams were more computational. Lectures were clear and followed the book. Practice exams were really helpful.

4 - What is your overall assessment of the course? The answer to this question will generally be available in Vergil.

Response Option	Weight	Frequency	Percent	Percent Responses	Means
Excellent	(5)	10	31.25%		4.06
Very Good	(4)	16	50.00%		
Good	(3)	4	12.50%		
Fair	(2)	2	6.25%		
Poor	(1)	0	0.00%		
				0 25 50 100	Question
Response Rate			Mean	STD	Median
32/77 (41.56%)			4.06	0.84	4.00

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5 - Would you recommend this course to another student?The answer to this question will generally be available in Vergil.					
Response Option	Weight	Frequency	Percent	Percent Responses	Means
Definitely recommend	(1)	9	28.13%		
Probably recommend	(2)	17	53.13%		
I'm not sure I'd recommend	(3)	4	12.50%		
Probably not recommend	(4)	1	3.13%		
Definitely not recommend	(5)	1	3.13%		
				0 25 50 100	
Response Rate					
32/77 (41.56%)					

6 - Please qualify your recommendations if you wish:The answer to this question will generally be available in Vergil.	
Response Rate	3/77 (3.9%)
<ul style="list-style-type: none"> lots of proofs, but exams are completely computational; good for an elective for APMA majors I did often wish during the semester that procedures were more heavily motivated, I often did not understand how we came to solve a problem in a certain way and felt that I was just copying down answers to the same 3 problems with different numbers. Not necessarily the most interesting class, but not bad at all if you're required to take a class like this 	

7 - How does the workload in this course compare to Columbia courses with a similar structure (e.g. a lecture, seminar, laboratory, or language course)?The answer to this question will generally be available in Vergil.					
Response Option	Weight	Frequency	Percent	Percent Responses	Means
Much heavier workload	(1)	2	6.25%		
Heavier workload	(2)	4	12.50%		
Similar workload	(3)	25	78.13%		
Lighter workload	(4)	1	3.13%		
Much lighter workload	(5)	0	0.00%		
No basis for comparison	(6)	0	0.00%		
				0 25 50 100	
Response Rate					
32/77 (41.56%)					

8 - How many hours a week did you devote to this course? (Note: Please include all time spent on this class including class time, discussion sections, readings, assignments, studying, etc.)The answer to this question will generally be available in Vergil.	
Response Rate	7/77 (9.09%)
<ul style="list-style-type: none"> 2-3 hours/week Probably around 4-5 hours/homework and an extra hour studying/ reviewing other stuff 6 6 9 15 8 	

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9 - Please evaluate Elena Giorgi. What are Elena Giorgi's strengths? In what ways might their teaching be improved? In answering this question, you might address the clarity of the lectures or presentations and their relationship to the other elements of the course, the ability of Elena Giorgi to generate enthusiasm and facilitate discussion, the quality of feedback, availability, the timeliness of the return assignment, etc. -

Response Rate 10/77 (12.99%)

- made the course bearable, would highly recommend any math course taught by her
- Fantastic lecturer, clear and great handwriting.
- Professor Giorgi is great. Unfortunately, I think the math background of students did not allow her to explore subjects outside of the scope of the textbook.
- Very nice and responsive to students. Good mathematical intuition clearly but sometimes got lost in a tricky proof during lecture.
- Professor Giorgi is very nice and does a good job teaching the content. I think because it is a math course that is heavily guided by the book, there were times I would listen during lecture and be a bit confused but when I did the pset and read the book, I would understand what I was confused by.
- Decent lecturer, will crack a joke every once in a while. writes super small though so sit close to the front
- The lectures were pretty helpful for understanding the material since the textbook was pretty dense. Her writing can be at times hard to read, but having the textbook open to the relevant section usually provides enough context to make an accurate guess.
- This was the first time Elena taught this course and I thought she did a great job. She is very knowledgeable on the subject and almost always had an in depth answer to questions in class. The structure was pretty comparable to similar courses with the grade depending only on homework, one midterm, and the final. She made the practice midterm and final extremely similar to the actual exam. You do have to go to class however because she does not post lecture notes or record classes. Students who did not regularly attend class definitely had a harder time. I would take her again if I needed more math credits I found her funny in class at times and reasonable overall.
- Excellent professor, the lectures are clear and engaging.
- She was a good professor. Her lectures were very clear and she answered questions really well.

10 - What is the overall teaching effectiveness of Elena Giorgi? -

Response Option	Weight	Frequency	Percent	Percent Responses	Means
Excellent	(5)	19	59.38%		4.47
Very Good	(4)	9	28.13%		
Good	(3)	4	12.50%		
Fair	(2)	0	0.00%		
Poor	(1)	0	0.00%		
				0 25 50 100	Instructor
Response Rate			Mean	STD	Median
32/77 (41.56%)			4.47	0.72	5.00

11 - What are the strengths and weaknesses of Anthony Coniglio (discussion section leader, lab section leader, grader) as an instructor, and how might Anthony Coniglio's teaching be improved?

Response Rate 2/77 (2.6%)

- He was of great help to me during office hours, and his grading was very fast and accurate.
- n/a didnt got to OH ever

11 - What are the strengths and weaknesses of Jinghuan Lin (discussion section leader, lab section leader, grader) as an instructor, and how might Jinghuan Lin's teaching be improved?

Response Rate 0/77 (0%)

11 - What are the strengths and weaknesses of Tsz Kiu Aaron Chow (discussion section leader, lab section leader, grader) as an instructor, and how might Tsz Kiu Aaron Chow's teaching be improved?

Response Rate 1/77 (1.3%)

- knows his stuff for sure, but he definitely paid someone to take the TOEFL for him

11 - What are the strengths and weaknesses of Anthony Coniglio, Jinghuan Lin, Tsz Kiu Aaron Chow (discussion section leader, lab section leader, grader) as an instructor, and how might Anthony Coniglio, Jinghuan Lin, Tsz Kiu Aaron Chow's teaching be improved?

Response Rate

- knows his stuff for sure, but he definitely paid someone to take the TOEFL for him
- He was of great help to me during office hours, and his grading was very fast and accurate.
- n/a didnt got to OH ever

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12 - What is the overall teaching effectiveness of Anthony Coniglio?

Response Option	Weight	Frequency	Percent	Percent Responses	Means	
Excellent	(5)	7	58.33%		4.33	
Very Good	(4)	2	16.67%			
Good	(3)	3	25.00%			
Fair	(2)	0	0.00%			
Poor	(1)	0	0.00%			
				0 25 50 100	TA	
Response Rate				Mean	STD	Median
12/77 (15.58%)				4.33	0.89	5.00

12 - What is the overall teaching effectiveness of Jinghuan Lin?

Response Option	Weight	Frequency	Percent	Percent Responses	Means	
Excellent	(5)	2	66.67%		4.33	
Very Good	(4)	0	0.00%			
Good	(3)	1	33.33%			
Fair	(2)	0	0.00%			
Poor	(1)	0	0.00%			
				0 25 50 100	TA	
Response Rate				Mean	STD	Median
3/77 (3.90%)				4.33	1.15	5.00

12 - What is the overall teaching effectiveness of Tsz Kiu Aaron Chow?

Response Option	Weight	Frequency	Percent	Percent Responses	Means	
Excellent	(5)	2	66.67%		4.00	
Very Good	(4)	0	0.00%			
Good	(3)	0	0.00%			
Fair	(2)	1	33.33%			
Poor	(1)	0	0.00%			
				0 25 50 100	TA	
Response Rate				Mean	STD	Median
3/77 (3.90%)				4.00	1.73	5.00

12 - What is the overall teaching effectiveness of Anthony Coniglio, Jinghuan Lin, Tsz Kiu Aaron Chow?

Response Option	Weight	Frequency	Percent	Percent Responses	Means	
Excellent	(5)	11	61.11%		4.28	
Very Good	(4)	2	11.11%			
Good	(3)	4	22.22%			
Fair	(2)	1	5.56%			
Poor	(1)	0	0.00%			
				0 25 50 100	TA	
Response Rate				Mean	STD	Median
				4.28	1.02	5.00