Columbia University: Arts & Sciences
A&S Spring 2026 Standard Evaluation

Course: MATHGR6403_001_2026_1 - MODERN GEOMETRY: MATHG6403_001_2026_1_228179

Instructor: Elena Giorgi *

Response Rate: 5/7 (71.43 %)

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	2/7 (28.57%)

• Global differential geometry, mathematical general relativity

• This course was taught by Prof. Giorgi, and we covered the second half of do Carmo's Riemannian Geometry, and toward the end we had an introduction to general relativity (Lorentzian geometry crash course, Schwarzschild and Kerr black holes, and the wave equation).

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)	5	100.00%		
Most	(2)	0	0.00%		
Some	(3)	0	0.00%		
This question is not applicable	(4)	0	0.00%		

0 25 50 100

Response Rate
5/7 (71.43%)

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	1/7 (14.29%)

• The lectures were very well organized and well delivered, following do Carmo's Riemannian Geometry very closely, which made reviewing the material at home very intuitive. Prof. Giorgi was always very prepared and is extremely knowledgeable. The GR material toward the end was an absolute gem, and it was amazing to see it from Prof. Giorgi's perspective, especially because she made it very accessible, while most sources are very hard to read. It was also very nice that Prof. Giorgi not only taught us the nuts and bolts of theorems and proofs, but also gaves us a sense of the big picture by discussing the history of some theorems.

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)	4	80.00%		4.80
Very Good	(4)	1	20.00%		
Good	(3)	0	0.00%		
Fair	(2)	0	0.00%		
Poor	(1)	0	0.00%		

0 25 50 100 Question

Response Rate	Mean	STD	Median
5/7 (71.43%)	4.80	0.45	5.00

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)	5	100.00%		
Probably recommend	(2)	0	0.00%		
I'm not sure I'd recommend	(3)	0	0.00%		
Probably not recommend	(4)	0	0.00%		
Definitely not recommend	(5)	0	0.00%		

0 25 50 100

Response Rate
5/7 (71.43%)

6 - Please qualify your recommendations if you wish:The answer to this question will generally be available in Vergil.

Response Rate	1/7 (14.29%)

• Great course for those with a strong foundation in differential geometry. Modern Geometry I is a strong requirement for the course.

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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)	0	0.00%		
Heavier workload	(2)	0	0.00%		
Similar workload	(3)	4	80.00%		
Lighter workload	(4)	1	20.00%		
Much lighter workload	(5)	0	0.00%		
No basis for comparison	(6)	0	0.00%		

0 25 50 100

Response Rate
5/7 (71.43%)

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	2/7 (28.57%)

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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	2/7 (28.57%)

- Great professor.
- Prof. Giorgi is a great lecturer; she is always very prepared for class and is knowledgeable about the material! Her lectures have a great pace and have a very well-balanced depth. We see a lot of proofs skipping very little, but also talk about broad results. She also does a great job answering the questions that arise in class, reviewing what was done in the previous lectures, and explaining the proofs in class. Her explanations and motivation make it easy to review the proofs after class.

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means
Excellent	(5)	4	80.00%		4.80
Very Good	(4)	1	20.00%		
Good	(3)	0	0.00%		
Fair	(2)	0	0.00%		
Poor	(1)	0	0.00%		

0 25 50 100 Question

Response Rate	Mean	STD	Median
5/7 (71.43%)	4.80	0.45	5.00

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

Response Rate	0/7 (0%)

12 - What is the overall teaching effectiveness of ?

Response Option	Weight	Frequency	Percent	Percent Responses	Means
Excellent	(5)	0	0.00%		
Very Good	(4)	0	0.00%		
Good	(3)	0	0.00%		
Fair	(2)	0	0.00%		
Poor	(1)	0	0.00%		0.00

0 25 50 100 Question

Response Rate	Mean	STD	Median
0/7 (0.00%)	0.00	0.00	0.00