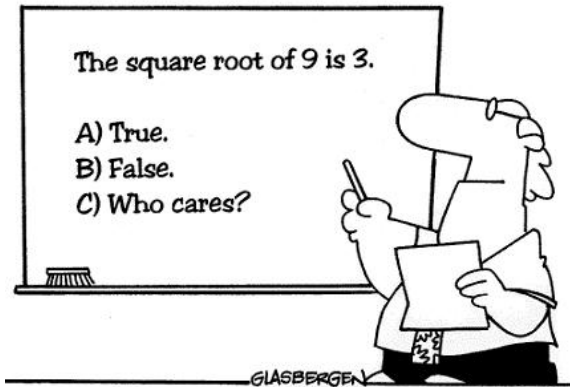


MATHEMATICS UNION



Many students actually look forward to Mr. Atwadder's math tests.

Introduction

The Mathematics Union (MU) represents the interests of, organizes events for, and generally works to improve the experience of all undergraduates enrolled in a program or course offered by the Department of Mathematics.

MU Executive

Editor's Note: This year the Mathematics Union received ASSU's *Sanjeev (Sanj) Dewett Course Union of the Year Award*.

APM 236H1F Applications of Linear Programming

Instructor(s): P. Kergin

	Resp: 58							Retake: 92%
	1	2	3	4	5	6	7	Mean
Presents	2	0	0	2	16	46	32	6.0
Explains	2	0	2	2	13	46	32	6.0
Communicates	4	0	2	2	20	46	23	5.7
Teaching	2	0	0	2	14	47	33	6.0
Workload	11	4	25	53	4	0	0	3.3
Difficulty	14	7	19	53	2	2	0	3.3
Learn Exp	3	0	3	37	27	13	13	4.8

Kergin was described as a clear and precise instructor who left no detail unexplained. He made clear notice of his office hours. However lectures could have gone at a faster pace.

Students were confident with the material as the lectures and text material were very thorough.

APM 236H1S Applications of Linear Programming

Instructor(s): S. Homayouni-Borojoni

	Resp: 18							Retake: 26%
	1	2	3	4	5	6	7	Mean
Presents	0	0	22	16	22	16	22	5.0
Explains	0	6	18	18	18	18	18	4.8
Communicates	0	5	5	11	38	22	16	5.2
Teaching	0	5	16	11	27	22	16	4.9
Workload	0	5	5	35	29	11	11	4.7
Difficulty	0	0	17	29	35	17	0	4.5
Learn Exp	0	7	15	53	0	15	7	4.2

APM 346H1F Partial Differential Equations

Instructor(s): C. Sulem

	Resp: 25							Retake: 90%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	21	39	39	6.2
Explains	0	0	0	0	25	41	33	6.1

Communicates	0	0	0	0	16	37	45	6.3
Teaching	0	0	0	0	25	25	50	6.2
Workload	0	0	4	36	36	18	4	4.8
Difficulty	0	13	0	54	18	13	0	4.2
Learn Exp	0	0	0	15	36	31	15	5.5

Sulem was very articulate, enthusiastic and helpful. Her presentation of the material was very clear and concise. She was also readily available for office hours.

The course was described as fairly light and tutorials were very helpful.

Instructor(s): M. Czubak

	Resp: 30							Retake: 80%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	3	6	43	46	6.3
Explains	0	0	0	3	13	36	43	6.2
Communicates	0	0	0	3	6	30	60	6.5
Teaching	0	0	0	3	3	33	60	6.5
Workload	0	0	0	43	23	26	6	5.0
Difficulty	0	0	0	53	16	20	3	4.6
Learn Exp	0	0	0	13	34	26	26	5.7

Czubak was a very passionate and knowledgeable instructor and was always available to answer students' questions. The instructor presented well-organized material and made connections to physics and quantum mechanics.

APM 351Y1Y Partial Differential Equations

Instructor(s): A. Burchard

	Resp: 5							Retake: 100%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	20	40	20	20	5.4
Explains	0	0	0	0	40	40	20	5.8
Communicates	0	0	0	0	40	0	60	6.2
Teaching	0	0	0	0	40	0	60	6.2
Workload	0	0	20	60	0	0	20	4.4
Difficulty	0	0	0	40	40	0	20	5.0
Learn Exp	0	0	0	0	75	0	25	5.5

APM 426H1S General Relativity

Instructor(s): R. Jerrard

	Resp: 9							Retake: 66%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	22	11	55	11	5.6
Explains	0	0	0	12	25	37	25	5.8
Communicates	0	0	0	22	11	44	22	5.7
Teaching	0	0	0	11	11	66	11	5.8
Workload	0	0	0	88	11	0	0	4.1
Difficulty	0	0	0	44	33	22	0	4.8
Learn Exp	0	12	0	62	25	0	0	4.0

APM 461H1S Combinatorial Methods

Instructor(s): S. Tanny

	Resp: 8							Retake: 71%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	0	25	75	6.8
Explains	0	0	0	0	12	0	87	6.8
Communicates	0	0	0	0	0	12	87	6.8
Teaching	0	0	0	0	0	25	75	6.8
Workload	0	0	14	57	0	14	14	4.6
Difficulty	0	0	12	37	12	12	25	5.0
Learn Exp	0	0	0	16	16	0	66	6.2

Tanny was praised as an approachable and engaging instructor. His style of teaching was described as excellent.

Students appreciated Tammy's organization and useful lecture notes.

APM 462H1S Nonlinear Optimization

Instructor(s): B. Pass

	Resp: 48							Mean
	1	2	3	4	5	6	7	
Presents	0	2	0	8	14	40	34	5.9
Explains	2	0	0	8	25	29	35	5.8
Communicates	0	2	0	4	22	37	33	5.9
Teaching	2	0	0	6	16	33	41	6.0
Workload	0	2	8	48	31	8	0	4.4
Difficulty	0	4	2	51	28	8	4	4.5
Learn Exp	5	0	2	37	37	14	2	4.5

Pass was described to be a dedicated, responsible and thorough instructor. His ability to communicate difficult concepts was invaluable to students, especially his ability to encourage and incorporate class participation.

APM 466H1S Mathematical Theory of Finance

Instructor(s): L. Seco

	Resp: 19							Mean
	1	2	3	4	5	6	7	
Presents	0	0	5	5	31	31	26	5.7
Explains	0	0	0	15	5	47	31	5.9
Communicates	0	0	0	5	15	36	42	6.2
Teaching	0	0	0	10	15	52	21	5.8
Workload	0	5	21	52	10	10	0	4.0
Difficulty	0	5	10	52	15	15	0	4.3
Learn Exp	0	7	7	21	21	35	7	4.9

Students enjoyed this course.

MAT 123H1S Calculus and Linear Algebra for Commerce (A)

Instructor(s): P. Kergin

	Resp: 11							Mean
	1	2	3	4	5	6	7	
Presents	0	9	9	27	9	27	18	4.9
Explains	9	9	27	0	18	27	9	4.3
Communicates	9	9	0	36	18	18	9	4.4
Teaching	0	0	9	27	27	18	18	5.1
Workload	0	9	0	63	9	9	9	4.4
Difficulty	0	0	0	54	18	9	18	4.9
Learn Exp	0	11	11	66	0	0	11	4.0

Kergin was described as an effective communicator.

MAT 125H1S Calculus I (A)

Instructor(s): A. Lam

	Resp: 31							Mean
	1	2	3	4	5	6	7	
Presents	0	0	3	0	16	32	48	6.2
Explains	0	0	0	3	9	25	61	6.5
Communicates	0	0	3	3	9	25	58	6.3
Teaching	0	0	0	3	16	16	63	6.4
Workload	3	0	9	41	25	19	0	4.5
Difficulty	0	0	3	36	40	16	3	4.8
Learn Exp	0	0	0	34	0	55	10	5.4

Lam was described as an outstanding lecturer for his enthusiasm, his ability to go step by step and provide an experienced grasp of key examples. Students found the material accessible and interesting.

MAT 133Y1Y Calculus and Linear Algebra for Commerce

Instructor(s): A. Igelfeld

	Resp: 34							Mean
	1	2	3	4	5	6	7	
Presents	0	2	10	18	34	18	15	5.0
Explains	2	0	0	21	26	31	18	5.4

	1	2	3	4	5	6	7	Mean
Communicates	0	0	0	15	10	42	31	5.9
Teaching	0	0	5	7	23	39	23	5.7
Workload	0	2	2	51	28	8	5	4.5
Difficulty	2	8	8	58	16	5	0	3.9
Learn Exp	0	0	0	42	25	21	10	5.0

Igelfeld was an excellent instructor. The examples he gave of real world scenarios helped build mathematical intuitions.

Instructor(s): O. Yacobi

	Resp: 45							Mean
	1	2	3	4	5	6	7	
Presents	0	0	2	4	15	28	48	6.2
Explains	0	0	0	4	15	17	62	6.4
Communicates	0	0	0	0	15	24	60	6.4
Teaching	0	0	0	4	4	28	62	6.5
Workload	4	2	6	44	30	6	4	4.3
Difficulty	2	2	20	38	22	9	4	4.2
Learn Exp	0	0	0	28	21	31	18	5.4

Students said the instructor was excellent and praised his clear and organized way of presenting course content and friendly demeanour.

Many students commented that the course was fast-paced and that the tutorials could have been more useful.

Instructor(s): D. Tate

	Resp: 86							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	0	4	21	79	6.7
Explains	0	0	1	0	2	13	82	6.8
Communicates	0	0	0	1	8	33	56	6.5
Teaching	0	0	0	0	4	17	77	6.7
Workload	1	2	8	48	14	21	3	4.5
Difficulty	1	3	10	52	18	6	6	4.3
Learn Exp	1	1	2	23	18	33	19	5.3

Students were delighted by Tate's organization and ability to explain concepts clearly and found her review sessions extremely useful.

Instructor(s): A. Igelfeld

	Resp: 72							Mean
	1	2	3	4	5	6	7	
Presents	0	0	4	27	31	17	20	5.2
Explains	0	0	1	11	43	21	21	5.5
Communicates	0	0	1	4	24	38	31	5.9
Teaching	0	0	0	2	24	40	32	6.0
Workload	0	3	9	59	18	9	1	4.3
Difficulty	1	3	13	59	16	4	1	4.1
Learn Exp	0	0	0	40	26	17	15	5.1

Igelfeld was described as enthusiastic, engaging and approachable. He was praised for having excellent communication skills. The test and assignments were fair.

Instructor(s): P. Kergin

	Resp: 22							Mean
	1	2	3	4	5	6	7	
Presents	0	0	10	35	25	10	20	4.9
Explains	0	0	23	38	9	9	19	4.6
Communicates	0	0	0	57	19	9	14	4.8
Teaching	0	4	4	23	38	4	23	5.0
Workload	0	0	9	52	28	4	4	4.4
Difficulty	0	0	14	38	42	0	4	4.4
Learn Exp	0	0	5	52	23	11	5	4.6

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Instructor(s): D. Tate

	Resp: 86							Retake: 76%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	2	2	20	75	6.7
Explains	0	0	0	2	3	21	72	6.6
Communicates	0	0	1	3	3	25	66	6.5
Teaching	0	0	0	1	2	19	76	6.7
Workload	3	1	10	40	20	11	11	4.6
Difficulty	4	5	13	40	11	11	11	4.3
Learn Exp	0	4	1	22	19	22	29	5.4

Students praised Tate's lecturing ability and enthusiasm for the course material. They also appreciate her clear and organized presentation and willingness to help students at office hours.

However some students felt that the tests were too difficult, and that the lectures would be better if Tate did more examples that were not in the textbook.

MAT 135Y1Y Calculus I

Instructor(s): E. LeBlanc

	Resp: 49							Retake: 48%
	1	2	3	4	5	6	7	Mean
Presents	0	0	4	16	20	31	27	5.6
Explains	0	2	10	14	14	35	22	5.4
Communicates	2	2	4	19	15	36	19	5.3
Teaching	0	0	4	17	21	31	25	5.6
Workload	0	0	2	42	31	17	6	4.8
Difficulty	0	2	0	27	27	31	10	5.2
Learn Exp	5	2	7	35	30	17	0	4.4

LeBlanc made good use of examples and students found him to be very organized.

Instructor(s): E. Arthur

	Resp: 23							Retake: 80%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	4	21	34	39	6.1
Explains	0	4	0	13	13	52	17	5.6
Communicates	4	0	0	0	17	43	34	6.0
Teaching	4	0	0	0	21	47	26	5.8
Workload	0	4	0	47	17	26	4	4.7
Difficulty	0	0	4	47	26	13	8	4.7
Learn Exp	5	5	0	31	21	26	10	4.8

Students found Arthur to be a very enthusiastic instructor who conveyed information very clearly.

Instructor(s): M. Pugh

	Resp: 55							Retake: 58%
	1	2	3	4	5	6	7	Mean
Presents	0	3	7	12	32	30	12	5.2
Explains	0	0	5	23	14	30	25	5.2
Communicates	0	0	0	18	25	36	20	5.6
Teaching	0	0	1	20	25	36	16	5.5
Workload	0	0	3	50	25	16	3	4.7
Difficulty	0	1	0	40	30	18	9	4.9
Learn Exp	2	2	4	53	11	17	8	4.6

Students found Pugh to be a knowledgeable and fun instructor, although felt she could have been more organized.

Instructor(s): A. del Junco

	Resp: 24							Retake: 42%
	1	2	3	4	5	6	7	Mean
Presents	8	12	29	33	12	0	4	3.5
Explains	8	8	29	16	29	4	4	3.8
Communicates	8	0	16	41	25	4	4	4.0

Teaching	0	16	12	45	12	4	8	4.0
Workload	0	0	0	59	27	9	4	4.6
Difficulty	4	0	0	36	27	27	4	4.8
Learn Exp	5	5	5	68	5	10	0	3.9

Students felt the course could have been helped by more organization.

Instructor(s): A. Lam

	Resp: 133							Retake: 68%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	1	3	24	70	6.6
Explains	0	0	0	0	9	15	74	6.6
Communicates	0	0	0	3	4	11	81	6.7
Teaching	0	0	0	0	3	24	72	6.7
Workload	2	1	3	39	26	17	9	4.8
Difficulty	1	0	3	33	25	23	12	5.0
Learn Exp	0	0	3	22	21	29	22	5.4

Students found instructor lam's lectures very useful and commented on his enthusiasm for the material. Students also appreciated his sense of humour and his ability to explain concepts clearly.

Some students felt that the tests were unfair, and would have liked for Lam to do more difficult examples in lecture.

Instructor(s): A. Lam

	Resp: 128							Retake: 67%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	1	11	14	71	6.5
Explains	0	0	0	1	5	17	74	6.6
Communicates	0	0	0	0	1	9	87	6.8
Teaching	0	0	0	0	5	18	75	6.7
Workload	0	1	3	47	21	17	8	4.7
Difficulty	0	2	3	37	22	18	14	5.0
Learn Exp	0	0	0	32	21	20	23	5.3

Students found Lam to be an exceptional instructor as well as very approachable. Students found the tests to be too difficult.

MAT 137Y1Y Calculus!

Instructor(s): D. Moskovich

	Resp: 21							Retake: 60%
	1	2	3	4	5	6	7	Mean
Presents	0	5	15	15	30	20	15	4.9
Explains	0	0	0	19	33	38	9	5.4
Communicates	0	0	4	0	14	42	38	6.1
Teaching	0	0	0	15	30	45	10	5.5
Workload	0	0	0	28	33	14	23	5.3
Difficulty	0	0	9	38	19	23	9	4.9
Learn Exp	0	0	5	23	41	23	5	5.0

Moskovich was described as a very enthusiastic instructor who made lectures enjoyable.

Instructor(s): B. Khesin

	Resp: 33							Retake: 38%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	15	18	42	24	5.8
Explains	0	0	3	12	6	40	37	6.0
Communicates	0	0	0	12	9	21	57	6.2
Teaching	0	0	0	9	21	33	36	6.0
Workload	0	0	0	9	21	45	24	5.8
Difficulty	0	0	0	9	36	36	18	5.6
Learn Exp	0	3	0	24	31	27	13	5.2

Khesin was generally found to be a good instructor. Students found the problem sets too hard and felt that they did not reflect what was learned in lecture.

Instructor(s): D. Kerner

	Resp: 20							Mean
	1	2	3	4	5	6	7	
Presents	0	0	10	20	30	30	5.6	
Explains	0	5	5	15	5	30	40	5.7
Communicates	0	0	5	15	10	35	35	5.8
Teaching	0	0	0	20	5	45	30	5.8
Workload	0	0	0	5	40	30	25	5.8
Difficulty	0	0	0	10	35	45	10	5.6
Learn Exp	0	0	5	16	11	38	27	5.7

Students thought Kerner made the course enjoyable and many students commented on his excellent use of examples.

Most found the material difficult but rewarding and felt that the tests were fair.

Instructor(s): E. Meinrenken

	Resp: 26							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	0	24	44	32	6.1
Explains	0	0	0	4	20	48	28	6.0
Communicates	0	0	0	8	32	32	28	5.8
Teaching	0	0	0	4	20	45	29	6.0
Workload	0	0	0	20	16	41	20	5.6
Difficulty	0	0	0	33	16	41	8	5.2
Learn Exp	0	0	0	35	30	20	15	5.2

Students called Meinrenken "very effective" at teaching and always found his lectures helpful. Some students felt that the problem sets were often too difficult and time consuming.

Instructor(s): F. Soloviev

	Resp: 17							Mean
	1	2	3	4	5	6	7	
Presents	0	5	11	35	17	29	0	4.5
Explains	0	5	35	17	5	29	5	4.4
Communicates	0	0	23	11	35	17	11	4.8
Teaching	0	0	11	17	29	35	5	5.1
Workload	0	0	0	11	35	23	29	5.7
Difficulty	0	0	5	5	23	52	11	5.6
Learn Exp	0	0	12	37	12	31	6	4.8

Students felt that Soloviev was enthusiastic, but that he could have been more organized and occasionally had trouble explaining concepts clearly.

Many students commented that the problem sets were very challenging but overall helped students understand the material.

MAT 157Y1Y Analysis I

Instructor(s): K. Murty

	Resp: 20							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	5	10	25	60	6.4
Explains	0	0	0	5	15	15	65	6.4
Communicates	0	0	0	0	0	10	90	6.9
Teaching	0	0	0	0	0	30	90	6.7
Workload	0	0	5	21	26	26	21	5.4
Difficulty	0	0	0	10	12	15	31	5.7
Learn Exp	0	0	0	6	0	26	66	6.5

Students found Murty extremely enthusiastic and helpful, both in and out of lecture. In addition, students felt that he communicated extremely well, and praised him for including interesting supplementary material.

Many found that the material was highly enjoyable and rewarding and felt that the learning experience was very high.

MAT 223H1F Linear Algebra I

Instructor(s): S. Uppal

	Resp: 84							Mean
	1	2	3	4	5	6	7	
Presents	0	1	2	1	22	23	49	6.1
Explains	0	0	6	9	15	37	31	5.8
Communicates	0	1	3	4	24	32	32	5.8
Teaching	0	0	3	4	14	32	45	6.1
Workload	0	4	8	35	23	19	8	4.7
Difficulty	2	1	1	34	28	19	13	5.0
Learn Exp	2	0	7	30	31	20	7	4.8

Uppal was praised as being well-organized and for being extremely knowledgeable. Many students chose to attend his lecture section instead of their own - for the same course. Uppal always gave help to those who asked.

The course was found difficult as many students would have preferred problem sets or quizzes instead of the term tests.

Instructor(s): H. Kim

	Resp: 32							Mean
	1	2	3	4	5	6	7	
Presents	3	3	3	15	31	31	12	5.1
Explains	0	0	12	21	21	31	12	5.1
Communicates	0	0	6	34	18	21	18	5.1
Teaching	0	0	6	12	37	31	12	5.3
Workload	0	0	9	61	16	12	0	4.3
Difficulty	0	0	0	54	25	19	0	4.6
Learn Exp	3	3	6	44	13	20	6	4.5

Kim was a very enthusiastic and knowledgeable instructor who provided numerous examples to explain the course material. He was always available to answer any students' questions and concerns.

The course was found to be challenging and difficult for those with minimal math background. Since tests other than assignments were used more frequently.

Instructor(s): B. Rowe

	Resp: 48							Mean
	1	2	3	4	5	6	7	
Presents	0	2	8	17	37	28	4	5.0
Explains	4	8	10	29	29	14	4	4.3
Communicates	4	4	17	31	31	8	2	4.2
Teaching	0	6	6	19	44	17	6	4.8
Workload	0	10	20	41	14	12	0	4.0
Difficulty	0	6	4	34	36	17	2	4.6
Learn Exp	2	4	14	51	19	4	2	4.0

Rowe could have used more examples in class.

Instructor(s): F. Murnaghan

	Resp: 33							Mean
	1	2	3	4	5	6	7	
Presents	0	3	6	24	33	18	15	5.0
Explains	0	0	6	27	39	15	12	5.0
Communicates	3	0	24	27	33	3	9	4.5
Teaching	0	0	6	21	40	18	12	5.1
Workload	0	9	15	30	15	21	9	4.5
Difficulty	0	3	0	33	24	27	12	5.1
Learn Exp	3	6	3	44	10	20	10	4.6

Murnaghan's lecture style was described as clear, effective and efficient. She had an excellent ability to write clearly and backed up her explanations with effective example. She sometimes spoke too fast.

Students found the course material interesting and found the grading scheme fair.

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MAT 223H1S Linear Algebra I

Instructor(s): B. Smithling

	Enr: 124							Mean
	Resp: 30							
	1	2	3	4	5	6	7	
Presents	0	0	3	7	21	35	32	5.9
Explains	0	0	3	13	16	36	30	5.8
Communicates	0	0	0	10	23	36	30	5.9
Teaching	3	0	0	10	23	43	20	5.6
Workload	3	0	6	46	23	16	3	4.5
Difficulty	0	0	3	36	26	23	10	5.0
Learn Exp	0	0	13	43	13	26	4	4.7

Students found Smithling a very enthusiastic and interesting lecturer though many felt discouraged by how often he was absent.

Instructor(s): S. Uppal

	Enr: 151							Mean
	Resp: 121							
	1	2	3	4	5	6	7	
Presents	0	0	0	11	11	29	43	6.1
Explains	0	0	3	9	15	27	43	6.0
Communicates	0	0	2	10	22	31	32	5.8
Teaching	0	0	0	9	15	30	43	6.1
Workload	2	2	9	50	19	10	5	4.3
Difficulty	0	1	0	35	31	19	10	5.0
Learn Exp	0	2	2	40	22	21	12	4.9

Uppal was described as an enthusiastic and passionate instructor, although lectures suffered due to poor handwriting.

Students hoped for a wider range of practise problems that more clearly reflected the tests.

Instructor(s): M. Czubak

	Enr: 185							Mean
	Resp: 21							
	1	2	3	4	5	6	7	
Presents	0	0	10	15	25	15	35	5.5
Explains	0	5	5	10	20	25	35	5.6
Communicates	0	0	10	5	25	15	45	5.8
Teaching	0	5	5	5	26	26	31	5.6
Workload	0	5	11	41	5	17	17	4.7
Difficulty	0	5	5	17	35	11	23	5.1
Learn Exp	0	6	13	13	33	20	13	4.9

Students felt that instructor Czubak was patient and explained concepts clearly.

MAT 224H1F Linear Algebra II

Instructor(s): S. Uppal

	Enr: 102							Mean
	Resp: 54							
	1	2	3	4	5	6	7	
Presents	0	0	1	5	22	20	50	6.1
Explains	0	0	3	16	20	24	33	5.1
Communicates	0	1	0	5	16	33	42	6.1
Teaching	1	0	0	1	14	35	46	6.2
Workload	0	0	1	35	31	11	14	5.0
Difficulty	0	0	0	26	37	16	18	5.3
Learn Exp	4	2	0	29	27	29	8	4.9

Uppal was very organized and enthusiastic about the course material. His office hours tended to be crowded but he was always willing to answer student questions.

Students found the textbook frustrating and lacking in examples. The course overall was found to be difficult and more demanding than its prerequisite - MAT 223.

MAT 224H1S Linear Algebra II

Instructor(s): S. Uppal

	Enr: 167							Mean
	Resp: 88							
	1	2	3	4	5	6	7	
Presents	1	0	1	10	12	27	47	6.0
Explains	1	0	2	10	15	29	41	5.9
Communicates	0	1	1	6	15	27	47	6.1
Teaching	0	2	0	2	24	32	39	6.0
Workload	1	0	1	26	30	25	15	5.2
Difficulty	1	2	1	15	27	32	19	5.4
Learn Exp	1	1	0	28	27	25	15	5.2

Uppal was described as an amazing instructor in terms of enthusiasm, communication and organization.

The tests and assignments were said to be returned promptly and the content was fair and interesting.

MAT 235Y1Y Calculus II

Instructor(s): G. Richards

	Enr: 114							Mean
	Resp: 62							
	1	2	3	4	5	6	7	
Presents	0	0	0	6	14	22	55	6.3
Explains	0	0	0	1	11	27	59	6.4
Communicates	0	0	0	0	6	22	70	6.6
Teaching	0	0	0	0	9	31	59	6.5
Workload	0	1	6	55	25	10	1	4.4
Difficulty	3	3	3	43	25	21	0	4.5
Learn Exp	2	2	0	24	30	26	14	5.2

Students found Richards to be an enthusiastic instructor who made excellent use of office hours.

Students found that the tests did not reflect the material taught in class.

MAT 237Y1Y Multivariable Calculus

Instructor(s): S. Uppal

	Enr: 96							Mean
	Resp: 73							
	1	2	3	4	5	6	7	
Presents	0	0	0	2	13	36	47	6.3
Explains	0	0	1	5	20	30	41	6.1
Communicates	0	0	1	5	12	37	43	6.2
Teaching	0	0	0	1	18	32	47	6.3
Workload	0	0	1	18	27	25	27	5.6
Difficulty	0	0	0	8	14	28	48	6.2
Learn Exp	8	5	7	32	14	23	8	4.4

Students thought that Uppal was enthusiastic and did an amazing job at teaching the course material. Although the material was very challenging, he presented the ideas very well and was a great lecturer.

Instructor(s): S. Homayouni-Borojani

	Enr: 78							Mean
	Resp: 46							
	1	2	3	4	5	6	7	
Presents	0	0	8	11	20	26	33	5.6
Explains	2	0	8	15	11	33	26	5.5
Communicates	2	0	2	0	13	29	52	6.2
Teaching	2	0	4	2	13	37	40	6.0
Workload	0	0	0	8	28	26	36	5.9
Difficulty	0	0	0	4	13	26	55	6.3
Learn Exp	5	2	5	16	35	21	13	4.9

Students felt that the instructor was good and that he explained concepts clearly. However many students said the course was very hard. A few students also said the textbook was not helpful.

MAT 244H1S Introduction to Ordinary Differential Equations

Instructor(s): B. Fontaine

	Enr: 97							Mean
	1	2	3	4	5	6	7	
Presents	0	0	2	11	35	24	26	5.6
Explains	0	0	6	4	26	33	28	5.7
Communicates	0	2	2	6	37	31	20	5.5
Teaching	0	0	2	6	28	37	24	5.8
Workload	0	0	13	57	20	6	2	4.3
Difficulty	0	2	11	62	11	11	2	4.2
Learn Exp	0	2	0	32	47	11	5	4.8

Many students felt that Fontaine was very approachable and appreciated how well-organized his lectures were. However, he often spoke too quickly for some students.

Students thought that the learning experience would be improved if the course had a tutorial and that holding pop-quizzes was unfair.

Instructor(s): M. Ivrii

	Enr: 74							Mean
	1	2	3	4	5	6	7	
Presents	9	18	27	27	0	9	9	3.5
Explains	18	0	9	36	18	9	9	4.0
Communicates	0	0	0	36	0	9	54	5.8
Teaching	0	9	9	45	18	9	9	4.4
Workload	0	9	9	36	45	0	0	4.2
Difficulty	0	9	9	45	36	0	0	4.1
Learn Exp	11	0	11	33	22	11	11	4.3

Ivrii was enthusiastic and passionate about the material but many students found him disorganized and difficult to follow.

Some felt that the tests did not reflect the course material well.

MAT 246H1F Concepts in Abstract Mathematics

Instructor(s): F. Murnaghan

	Enr: 69							Mean
	1	2	3	4	5	6	7	
Presents	0	3	6	21	37	12	18	5.1
Explains	0	6	9	21	28	25	9	4.8
Communicates	0	12	3	19	29	22	12	4.8
Teaching	0	3	6	16	19	45	9	5.3
Workload	0	0	3	40	34	15	6	4.8
Difficulty	0	0	3	31	31	28	6	5.0
Learn Exp	8	4	8	34	26	13	4	4.2

Murnaghan was described as being a good lecturer overall, and was very courteous and approachable in both class and office hours. However she usually spoke too fast,

The level of difficulty of the course was average, however, solutions to practice problems and a textbook to reference when notes were lacking would have been very helpful.

MAT 246H1S Concepts in Abstract mathematics

Instructor(s): P. Rosenthal

	Enr: 93							Mean
	1	2	3	4	5	6	7	
Presents	0	0	19	14	21	26	17	5.1
Explains	0	7	9	9	26	34	12	5.1
Communicates	0	2	0	15	25	42	15	5.5
Teaching	0	0	4	14	19	41	19	5.6
Workload	0	0	9	70	17	2	0	4.1
Difficulty	0	2	4	53	14	17	7	4.6
Learn Exp	0	3	15	21	21	25	12	4.9

Rosenthal was an enthusiastic and clear instructor, though some students felt his handwriting could have been better.

MAT 271H1F Insights from Mathematics

Instructor(s): J. Repka

	Enr: 45							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	0	14	42	42	6.3
Explains	0	0	0	4	13	27	54	6.3
Communicates	0	0	4	4	13	45	31	6.0
Teaching	0	0	0	0	14	28	57	6.4
Workload	4	9	31	45	0	9	0	3.6
Difficulty	4	18	27	40	4	4	0	3.4
Learn Exp	0	0	0	14	28	19	38	5.8

Repka was described as an interesting, patient and organized lecturer. The course was found to be easily understandable by most students., More structure given to the final project and labs would have been appreciated by students.

MAT 301H1F Groups and Symmetries

Instructor(s): J. W. Lorimer

	Enr: 39							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	7	15	46	30	6.0
Explains	0	0	3	7	23	38	26	5.8
Communicates	0	0	0	3	19	34	42	6.2
Teaching	0	0	0	0	19	53	26	6.1
Workload	0	11	0	50	30	7	0	4.2
Difficulty	0	7	3	30	30	23	3	4.7
Learn Exp	0	4	0	50	13	18	13	4.8

Lorimer was found to be very enthusiastic about the course material. He structured the class well, however went through the material at a fairly fast pace.

The course was enjoyable overall, students found the coursework fairly stressful and hectic to complete.

MAT 301H1S Groups and Symmetries

Instructor(s): F. Murnaghan

	Enr: 57							Mean
	1	2	3	4	5	6	7	
Presents	0	0	5	0	23	52	17	5.8
Explains	0	0	0	11	29	35	23	5.7
Communicates	0	0	5	5	41	29	17	5.5
Teaching	0	0	0	5	23	52	17	5.8
Workload	0	0	17	35	23	23	0	4.5
Difficulty	0	0	17	23	29	17	11	4.8
Learn Exp	0	0	0	33	33	20	13	5.1

Murnaghan was very organized and students found the lectures very helpful in understanding the material. Some students felt that the material could have been taught at a faster pace.

MAT 309H1F Introduction to Mathematical Logic

Instructor(s): F. Tall

	Enr: 54							Mean
	1	2	3	4	5	6	7	
Presents	0	3	10	16	33	20	16	5.1
Explains	0	6	13	13	20	30	16	5.0
Communicates	0	3	6	6	26	33	23	5.5
Teaching	0	0	3	16	26	23	30	5.6
Workload	0	3	13	37	27	17	0	4.4
Difficulty	0	0	13	41	13	24	6	4.7
Learn Exp	6	0	0	44	10	31	6	4.7

Tall was praised as an enthusiastic and humorous lecturer. Although the course material was dry at times, Tall made it interesting for students.

The term tests were fair but students remarked that not enough time was given. Many students said this was their favourite math course.

MAT 315H1S Introduction to Number Theory

Instructor(s): H. Kim

	Enr: 79							Mean
	1	2	3	4	5	6	7	
Presents	0	0	10	17	35	14	21	5.2
Explains	0	3	10	13	24	34	12	5.2
Communicates	0	3	0	20	23	43	10	5.3
Teaching	0	0	3	27	20	34	13	5.3
Workload	0	23	0	53	23	0	0	3.8
Difficulty	3	6	6	60	20	3	0	4.0
Learn Exp	4	0	4	44	16	16	16	4.8

Kim was enthusiastic. He was very accessible outside of class and interested in seeing students succeed.

The textbook for this course was very good.

MAT 327H1F Introduction to Topology

Instructor(s): D. Bar-Natan

	Enr: 51							Mean
	1	2	3	4	5	6	7	
Presents	0	0	3	7	7	33	48	6.1
Explains	0	0	0	7	7	26	57	6.3
Communicates	0	0	0	3	3	19	73	6.6
Teaching	0	0	0	7	3	22	66	6.5
Workload	0	0	3	46	23	19	7	4.8
Difficulty	0	0	11	38	26	15	7	4.7
Learn Exp	0	0	5	16	22	33	21	5.5

Bar-Natan was described as an exemplary lecturer. His lecture style of overview followed by details was said to be very helpful in grasping in concepts. His use of a course wiki was also praised.

MAT 329Y1Y Concepts in Elementary Mathematics

Instructor(s): S. Cohen

	Enr: 18							Mean
	1	2	3	4	5	6	7	
Presents	0	0	12	6	25	18	37	5.6
Explains	0	0	6	0	31	18	43	5.9
Communicates	0	0	0	0	6	20	73	6.7
Teaching	0	0	0	0	6	37	56	6.5
Workload	0	0	18	62	6	6	6	4.2
Difficulty	0	0	12	62	12	12	0	4.2
Learn Exp	0	0	9	18	18	9	45	5.6

Students found Cohen to be an excellent instructor who did a very good job expressing the goals of the course.

Students found the tests on the math components overly difficult.

MAT 334H1F Complex Variables

Instructor(s): T. Bloom

	Enr: 73							Mean
	1	2	3	4	5	6	7	
Presents	2	0	7	13	44	26	5	5.0
Explains	0	5	7	17	23	30	15	5.1
Communicates	5	5	12	20	23	25	7	4.6
Teaching	0	2	7	7	33	30	17	5.4
Workload	0	8	13	47	25	2	2	4.1
Difficulty	0	2	13	29	29	16	8	4.7
Learn Exp	3	11	7	37	33	0	7	4.1

Bloom was described as being well-prepared for the classes but lectured a little too fast, making it difficult for some students to keep up. Also, at times Bloom seemed to lack enthusiasm but overall, he fulfilled his role as an instructor.

The course could have included assignments and tutorials. They would have made the course much more manageable.

MAT 334H1S Complex Variables

Instructor(s): P. Milman

	Enr: 58							Mean
	1	2	3	4	5	6	7	
Presents	5	17	17	23	11	23	0	3.9
Explains	0	5	23	41	17	11	0	4.1
Communicates	0	0	5	17	29	17	29	5.5
Teaching	0	0	23	17	29	23	5	4.7
Workload	0	5	5	29	17	23	17	5.0
Difficulty	0	5	0	17	23	23	29	5.5
Learn Exp	7	14	7	50	14	7	0	3.7

MAT 335H1F Chaos, Fractals and Dynamics

Instructor(s): D. Burbulla

	Enr: 38							Mean
	1	2	3	4	5	6	7	
Presents	0	0	6	0	50	37	6	5.4
Explains	6	0	6	18	31	31	6	4.9
Communicates	0	0	12	12	37	18	18	5.2
Teaching	0	0	6	20	13	40	20	5.5
Workload	0	0	12	43	18	12	12	4.7
Difficulty	0	0	18	56	18	6	0	4.1
Learn Exp	0	8	8	33	8	41	0	4.7

Burbulla was described as a fun and witty lecturer. Often times his examples were taken straight out of the textbook and students wished for more original computing examples.

The course load was found to be high, but overall it was described as an enjoyable course.

MAT 337H1F Introduction to Real Analysis

Instructor(s): I. Graham

	Enr: 23							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	16	8	33	41	6.0
Explains	0	0	16	8	8	33	33	5.6
Communicates	0	0	16	16	8	8	50	5.6
Teaching	0	8	0	8	16	16	50	5.8
Workload	0	0	8	33	8	41	8	5.1
Difficulty	0	0	8	8	25	33	25	5.6
Learn Exp	0	0	20	20	10	40	10	5.0

Graham had great communication with students, however lectures were found to be a little dry.

MAT 347Y1Y Groups, Rings and Fields

Instructor(s): G. Elliot; S. Kudla

	Enr: 26							Mean
	1	2	3	4	5	6	7	
<u>Elliot:</u>								
Presents	36	18	36	0	0	9	0	2.4
Explains	36	27	18	9	0	9	0	2.4
Communicates	9	0	9	18	18	18	27	5.0
Teaching	18	18	18	36	0	0	9	3.2
<u>Kudla:</u>								
Presents	0	0	0	9	18	45	27	5.9
Explains	0	0	0	0	27	36	36	6.1
Communicates	0	0	0	10	40	30	20	5.6
Teaching	0	0	0	9	18	36	36	6.0
<u>Course:</u>								
Workload	0	0	0	9	63	9	18	5.4
Difficulty	0	0	0	0	36	36	27	5.9
Learn Exp	0	0	0	22	22	22	33	5.7

MAT 354H1F Complex Analysis I

Instructor(s): A. del Junco

	Enr: 24							Mean
	1	2	3	4	5	6	7	
Presents	0	0	12	18	0	62	6	5.3
Explains	0	0	6	6	12	56	18	5.8
Communicates	0	0	0	18	0	68	12	5.8
Teaching	0	0	0	18	6	43	31	5.9
Workload	0	6	0	53	25	12	0	4.4
Difficulty	0	0	0	43	37	18	0	4.8
Learn Exp	0	0	0	10	10	50	30	6.8

del Junco was described as a fantastic lecturer.

MAT 357H1S Real Analysis I

Instructor(s): R. Jerrard

	Enr: 51							Mean
	1	2	3	4	5	6	7	
Presents	5	0	5	0	36	36	15	5.4
Explains	0	5	5	0	26	57	5	5.4
Communicates	0	0	5	0	21	57	15	5.8
Teaching	0	5	0	5	15	57	15	5.7
Workload	0	0	0	38	22	27	11	5.1
Difficulty	0	0	0	22	16	33	11	5.0
Learn Exp	0	9	0	9	27	18	36	5.5

MAT 363H1S Introduction to Differential Geometry

Instructor(s): A. del Junco

	Enr: 33							Mean
	1	2	3	4	5	6	7	
Presents	0	6	6	18	37	12	18	5.0
Explains	0	0	6	6	31	31	25	5.6
Communicates	0	12	0	25	37	18	6	4.7
Teaching	0	6	6	6	31	37	12	5.2
Workload	6	0	13	40	20	13	6	4.3
Difficulty	6	0	26	26	20	6	13	4.3
Learn Exp	0	0	9	18	27	27	18	5.3

MAT 390H1S History of Mathematics up to 1700

Instructor(s): C. Fraser

	Enr: 62							Mean
	1	2	3	4	5	6	7	
Presents	0	0	7	7	31	27	25	5.6
Explains	0	0	3	12	20	40	22	5.6
Communicates	0	0	7	7	31	25	27	5.6
Teaching	0	1	1	15	26	33	20	5.5
Workload	0	1	9	69	18	3	1	4.2
Difficulty	0	1	13	60	18	3	1	4.2
Learn Exp	0	6	2	40	27	15	6	4.6

Fraser was found to be a very knowledgeable and enthusiastic instructor, although he tends to speak too quickly.

Students found the tests to be too long for the allotted times.

MAT 402H1S Classical Geometrics

Instructor(s): A. Khovanskii

	Enr: 45							Mean
	1	2	3	4	5	6	7	
Presents	14	9	4	14	14	33	4	4.4
Explains	4	4	23	14	14	33	4	4.5
Communicates	4	0	0	9	23	23	38	5.7
Teaching	4	4	0	28	9	28	23	5.1
Workload	0	0	15	40	30	5	10	4.6
Difficulty	0	0	10	30	35	5	20	4.9
Learn Exp	6	0	6	46	26	6	6	4.3

Khovanskii was enthusiastic and friendly but some students had trouble

following him at times.

MAT 409H1F Set Theory

Instructor(s): F. Tall

	Enr: 8							Mean
	1	2	3	4	5	6	7	
Presents	0	0	9	9	36	27	18	5.4
Explains	0	0	9	9	27	18	36	5.6
Communicates	0	0	0	9	0	27	63	6.5
Teaching	0	0	0	0	18	45	36	6.2
Workload	0	0	18	0	18	63	0	5.3
Difficulty	0	0	0	18	27	45	9	5.5
Learn Exp	0	0	0	30	0	40	30	5.7

Tall was described as a great lecturer who taught well under the pretense of such difficult material.

The choice of textbook was criticized for being terse, however it was also noted that at this level there may not be much option.

MAT 454H1S Complex Analysis II

Instructor(s): I. Graham

	Enr: 9							Mean
	1	2	3	4	5	6	7	
Presents	0	0	7	0	30	38	23	5.7
Explains	0	0	7	7	38	23	23	5.5
Communicates	0	7	15	7	23	15	30	5.2
Teaching	0	0	0	7	23	53	15	5.8
Workload	0	0	0	53	23	23	0	4.7
Difficulty	0	0	7	53	0	30	7	4.8
Learn Exp	0	0	0	50	16	25	8	4.9

Graham gave good lectures with positive reviews from students. Students also noted that they found the tests and assignments fair.

