## 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

## APM 236H1F Applications of Linear Programming

Instructor(s): P. Kergin
Enr: 83
Resp: 26

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 3 | 7 | 38 | 34 | 15 | 5.5 |
| Explains | 0 | 0 | 3 | 15 | 30 | 30 | 19 | 5.5 |
| Communicates | 0 | 0 | 11 | 11 | 42 | 26 | 7 | 5.1 |
| Teaching | 0 | 0 | 3 | 15 | 26 | 46 | 7 | 5.4 |
| Workload | 0 | 12 | 24 | 64 | 0 | 0 | 0 | 3.5 |
| Difficulty | 0 | 15 | 19 | 57 | 7 | 0 | 0 | 3.6 |
| Learn Exp | 0 | 0 | 9 | 52 | 19 | 9 | 9 | 4.6 |

## APM 236H1S Applications of Linear Programming

Instructor(s): S. Homayouni-Boroojeni
Enr: 34 Resp: 17 Retake: 57\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 6 | 0 | 12 | 25 | 31 | 18 | 6 | 4.6 |
| Explains | 0 | 5 | 5 | 41 | 35 | 5 | 5 | 4.5 |
| Communicates | 0 | 5 | 0 | 17 | 35 | 29 | 11 | 5.2 |
| Teaching | 0 | 5 | 0 | 23 | 47 | 17 | 5 | 4.9 |
| Workload | 0 | 0 | 0 | 64 | 17 | 11 | 5 | 4.6 |
| Difficulty | 0 | 5 | 5 | 58 | 17 | 5 | 5 | 4.3 |
| Learn Exp | 0 | 0 | 10 | 60 | 30 | 0 | 0 | 4.2 |

Students felt that the tests were too "analytical" and "theoretical"

## APM 346H1F Partial Differential Equations

Instructor(s): I. Graham

## Enr: 77

Resp: 47
Retake: 78\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 7 | 29 | 36 | 17 | 5.5 |
| Explains | 0 | 0 | 10 | 19 | 32 | 26 | 10 | 5.1 |
| Communicates | 0 | 5 | 12 | 25 | 36 | 12 | 8 | 4.7 |
| Teaching | 0 | 0 | 0 | 21 | 28 | 34 | 15 | 5.4 |
| Workload | 0 | 0 | 2 | 54 | 28 | 15 | 0 | 4.6 |
| Difficulty | 0 | 0 | 0 | 54 | 32 | 10 | 2 | 4.6 |

$\begin{array}{lllllllll}\text { Learn Exp } & 0 & 0 & 8 & 40 & 22 & 25 & 2 & 4.7\end{array}$
Most students felt that the instructor was knowledgeable, approachable and accessible. Many students felt that the textbook did not meet a high standard of quality and the problem sets assigned were quite difficult.

APM 351Y1Y Partial and Differential Equations
Instructor(s): C. Sulem
Enr: 19 Resp: 13 Retake: 91\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 0 | 15 | 23 | 61 | 6.5 |
| Explains | 0 | 0 | 0 | 7 | 0 | 15 | 76 | 6.6 |
| Communicates | 0 | 0 | 0 | 0 | 0 | 15 | 84 | 6.8 |
| Teaching | 0 | 0 | 0 | 0 | 0 | 23 | 76 | 6.8 |
| Workload | 0 | 8 | 16 | 33 | 33 | 8 | 0 | 4.2 |
| Difficulty | 0 | 0 | 9 | 54 | 27 | 9 | 0 | 4.4 |
| Learn Exp | 0 | 0 | 0 | 11 | 22 | 33 | 9 | 5.9 |

Sulem was organized, clear and very enthusiastic. She demonstrated genuine concern for students' learning and answered questions very well. Some students felt she was the best instructor to have taught them.

## APM 461H1S Combinatorial Methods

Instructor(s): S. Tanny

| Enr: 12 | Resp: 14 |  |  |  | Retake: $90 \%$ |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 21 | 14 | 35 | 28 | 5.7 |
| Explains | 0 | 0 | 0 | 7 | 14 | 28 | 50 | 6.2 |
| Communicates | 0 | 0 | 0 | 14 | 0 | 21 | 64 | 6.4 |
| Teaching | 0 | 0 | 0 | 7 | 21 | 28 | 42 | 6.1 |
| Workload | 0 | 0 | 50 | 41 | 8 | 0 | 0 | 3.6 |
| Difficulty | 0 | 8 | 25 | 41 | 8 | 16 | 0 | 4.0 |
| Learn Exp | 0 | 0 | 0 | 45 | 0 | 0 | 54 | 5.6 |

## APM 462H1S Nonlinear Optimization

Instructor(s): N. Derzko
Enr: 32 Resp: 15 Retake: 38\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 7 | 21 | 35 | 28 | 7 | 5.1 |
| Explains | 0 | 6 | 0 | 40 | 26 | 20 | 6 | 4.7 |
| Communicates | 0 | 0 | 0 | 20 | 60 | 13 | 6 | 5.1 |
| Teaching | 0 | 0 | 6 | 26 | 20 | 40 | 6 | 5.1 |
| Workload | 0 | 0 | 6 | 40 | 33 | 20 | 0 | 4.7 |
| Difficulty | 0 | 0 | 13 | 20 | 26 | 40 | 0 | 4.9 |
| Learn Exp | 0 | 14 | 14 | 35 | 21 | 14 | 0 | 4.1 |

M AT 123H1S Calculus and Linear Algebra for Commerce (A) Instructor(s): P. Kergin

| Enr: 61 | Resp: 20 |  |  |  | Retake: 29\% |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 5 | 0 | 15 | 20 | 35 | 15 | 10 | 4.7 |
| Explains | 5 | 5 | 5 | 20 | 35 | 20 | 10 | 4.8 |
| Communicates | 0 | 5 | 10 | 21 | 47 | 10 | 5 | 4.6 |
| Teaching | 5 | 0 | 5 | 30 | 20 | 25 | 15 | 4.9 |
| Workload | 5 | 0 | 20 | 55 | 15 | 5 | 0 | 3.9 |
| Difficulty | 0 | 0 | 10 | 42 | 26 | 15 | 5 | 4.6 |
| Learn Exp | 0 | 0 | 15 | 61 | 23 | 0 | 0 | 4.1 |

Kergin was very patient and available for questions. His explanations were detailed and thorough.

MAT 125H1S Calculus I (A)
Instructor(s): A. Lam

| Enr: 98 | Resp: 46 |  |  |  | Retake: 65\% |  |  |  |
| :--- | :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 2 | 20 | 22 | 55 | 6.3 |
| Explains | 0 | 0 | 2 | 0 | 6 | 31 | 60 | 6.5 |


| Communicates | 0 | 0 | 0 | 2 | 2 | 13 | 82 | 6.8 |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | :--- | :--- |
| Teaching | 0 | 0 | 0 | 2 | 2 | 22 | 73 | 6.7 |
| Workload | 2 | 0 | 4 | 29 | 31 | 18 | 13 | 5.0 |
| Difficulty | 2 | 2 | 2 | 34 | 29 | 18 | 11 | 4.9 |
| Learn Exp | 0 | 0 | 0 | 29 | 22 | 25 | 22 | 5.4 |

Students found Lam to be very enthusiastic, helpful and clear in his explanations. His handouts were very detailed and helpful. One student said that "Lam puts the 'fun' back into 'function'."

## MAT 133Y1Y Calculus and Linear Algebra for Commerce

Instructor(s): P. Kergin

| Enr: 107 | Resp: 23 |  |  |  |  | Retake: 45\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 8 | 26 | 17 | 26 | 21 | 5.3 |
| Explains | 0 | 8 | 4 | 21 | 21 | 30 | 13 | 5.0 |
| Communicates | 4 | 0 | 4 | 21 | 39 | 21 | 8 | 4.9 |
| Teaching | 0 | 0 | 8 | 17 | 30 | 17 | 26 | 5.3 |
| Workload | 0 | 8 | 0 | 52 | 34 | 0 | 4 | 4.3 |
| Difficulty | 8 | 4 | 4 | 34 | 39 | 8 | 0 | 4.2 |
| Learn Exp | 0 | 5 | 11 | 50 | 11 | 16 | 5 | 4.4 |

Students found Kergin to have been enthusiastic and a good reader. A few found him difficult to follow.

Instructor(s): A. Igelfeld

| Enr: 110 | Resp: 16 |  |  |  | Retake: 60\% |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 12 | 12 | 43 | 31 | 0 | 4.9 |
| Explains | 0 | 0 | 18 | 18 | 31 | 31 | 0 | 4.8 |
| Communicates | 0 | 0 | 0 | 12 | 31 | 37 | 18 | 5.6 |
| Teaching | 0 | 0 | 6 | 18 | 25 | 50 | 0 | 5.2 |
| Workload | 0 | 0 | 6 | 33 | 40 | 20 | 0 | 4.7 |
| Difficulty | 0 | 6 | 0 | 60 | 20 | 6 | 6 | 4.4 |
| Learn Exp | 0 | 0 | 7 | 42 | 35 | 14 | 0 | 4.6 |

Instructor(s): J. Tate

| Enr: 105 | Resp: 62 |  |  |  |  | Retake: $68 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 0 | 3 | 12 | 83 | 6.8 |
| Explains | 0 | 0 | 0 | 0 | 1 | 19 | 79 | 6.8 |
| Communicates | 0 | 0 | 0 | 1 | 9 | 22 | 66 | 6.5 |
| Teaching | 0 | 0 | 0 | 1 | 1 | 18 | 78 | 6.7 |
| Workload | 1 | 3 | 1 | 34 | 29 | 18 | 10 | 4.8 |
| Difficulty | 0 | 6 | 6 | 37 | 20 | 15 | 12 | 47 |
| Learn Exp | 0 | 0 | 0 | 22 | 20 | 37 | 20 | 5.6 |

Students found the instructor to have been enthusiastic, clear and very helpful. Lectures were well-organized and Tate showed dedication to teaching.

Instructor(s): A. Igelfield

| Enr: 129 | Resp: 17 |  |  |  |  |  | Retake: 85\% |  |  |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |  |
| Presents | 0 | 0 | 0 | 23 | 17 | 11 | 47 | 5.8 |  |
| Explains | 0 | 0 | 5 | 0 | 29 | 17 | 47 | 6.0 |  |
| Communicates | 0 | 0 | 5 | 5 | 23 | 5 | 58 | 6.1 |  |
| Teaching | 0 | 0 | 0 | 0 | 17 | 29 | 52 | 6.4 |  |
| Workload | 0 | 5 | 11 | 47 | 11 | 17 | 5 | 4.4 |  |
| Difficulty | 0 | 5 | 11 | 47 | 5 | 23 | 5 | 4.5 |  |
| Learn Exp | 0 | 0 | 0 | 26 | 33 | 26 | 13 | 5.3 |  |

The students who responded thought Igelfield was a very good instructor.

Instructor(s): J. Tate
Enr: 133 Resp: 65 Retake: 65\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 0 | 1 | 23 | 75 | 6.7 |
| Explains | 0 | 1 | 0 | 0 | 0 | 20 | 77 | 6.7 |
| Communicates | 0 | 1 | 0 | 1 | 7 | 26 | 63 | 6.5 |
| Teaching | 0 | 0 | 0 | 1 | 0 | 22 | 76 | 6.7 |
| Workload | 0 | 1 | 4 | 32 | 27 | 24 | 9 | 5.0 |
| Difficulty | 0 | 0 | 4 | 29 | 29 | 21 | 14 | 5.1 |
| Learn Exp | 0 | 2 | 4 | 18 | 24 | 22 | 28 | 5.5 |

Most students were pleased with Tate. Students said that she was an enthusiastic, organized and excellent instructor.

Many students complained about the length (3 hours) of the lectures. However, the course was said to be very informative, and a student recommended it for anyone that wants to learn math.

Instructor(s): T. Bloom

| Enr: 96 | Resp: 26 |  |  |  |  | Retake: 75\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 4 | 16 | 25 | 29 | 25 | 5.5 |
| Explains | 0 | 4 | 0 | 12 | 16 | 33 | 33 | 5.8 |
| Communicates | 0 | 0 | 12 | 12 | 28 | 28 | 20 | 5.3 |
| Teaching | 0 | 0 | 0 | 16 | 12 | 41 | 29 | 5.8 |
| Workload | 4 | 13 | 4 | 34 | 17 | 21 | 4 | 4.3 |
| Difficulty | 0 | 8 | 0 | 43 | 30 | 8 | 8 | 4.6 |
| Learn Exp | 0 | 0 | 5 | 22 | 27 | 44 | 0 | 5.1 |

Most students who wrote comments stated that Bloom was a good instructor.

MAT 135Y1Y Calculus
Instructor(s): P. Lee
Enr: 40 Resp: 9 Retake: 55\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 11 | 0 | 0 | 11 | 11 | 55 | 11 | 5.2 |
| Explains | 0 | 11 | 0 | 0 | 22 | 44 | 22 | 5.6 |
| Communicates | 11 | 0 | 0 | 11 | 44 | 22 | 11 | 4.9 |
| Teaching | 0 | 0 | 0 | 0 | 12 | 75 | 12 | 6.0 |
| Workload | 0 | 0 | 0 | 55 | 22 | 22 | 0 | 4.7 |
| Difficulty | 0 | 0 | 0 | 44 | 11 | 22 | 22 | 5.2 |
| Learn Exp | 0 | 12 | 0 | 50 | 37 | 0 | 0 | 4.1 |

Students referred to the instructor as a "great teacher". Some found the tests too difficult.

Instructor(s): H. Hakobyan

| Enr: 43 | Resp: 9 |  |  |  |  | Retake: 32\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 11 | 0 | 0 | 11 | 22 | 22 | 33 | 5.3 |
| Explains | 11 | 0 | 0 | 0 | 33 | 22 | 33 | 5.4 |
| Communicates | 11 | 0 | 0 | 0 | 0 | 11 | 7 | 6.2 |
| Teaching | 11 | 0 | 0 | 0 | 0 | 55 | 33 | 5.8 |
| Workload | 0 | 0 | 0 | 22 | 11 | 11 | 55 | 6.0 |
| Difficulty | 0 | 0 | 0 | 11 | 22 | 22 | 44 | 6.0 |
| Learn Exp | 12 | 12 | 0 | 25 | 0 | 25 | 25 | 4.6 |

Students found Hakobyan to be an enthusiastic and knowledgeable instructor. They also enjoyed his "conversational lecture style".

Some students found the tests overly difficult and felt that the tutorials did not adequately prepare them.

Instructor(s): T. Oh
Enr: 36 Resp: 12
Retake: 50\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 8 | 0 | 66 | 25 | 6.1 |
| Explains | 0 | 0 | 0 | 0 | 25 | 33 | 41 | 6.2 |


| Communicates | 0 | 0 | 0 | 0 | 16 | 41 | 41 | 6.2 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Teaching | 0 | 0 | 0 | 0 | 16 | 50 | 33 | 6.2 |
| Workload | 0 | 0 | 0 | 16 | 41 | 16 | 25 | 5.5 |
| Difficulty | 0 | 0 | 0 | 8 | 41 | 16 | 33 | 5.8 |
| Learn Exp | 0 | 9 | 9 | 27 | 27 | 9 | 18 | 4.7 |
|  |  |  |  |  |  |  |  |  |
| Instructor(s): R. Ponge |  |  |  |  |  |  |  |  |
| Enr: 36 |  |  |  |  |  |  |  |  |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mesp: 10 |
| Presents | 0 | 0 | 10 | 10 | 30 | 30 | 20 | 5.4 |
| Explains | 0 | 0 | 10 | 20 | 20 | 30 | 20 | 5.3 |
| Communicates | 0 | 10 | 0 | 10 | 20 | 50 | 10 | 5.3 |
| Teaching | 0 | 10 | 10 | 10 | 20 | 40 | 10 | 5.0 |
| Workload | 0 | 0 | 10 | 40 | 10 | 30 | 10 | 4.9 |
| Difficulty | 0 | 0 | 0 | 30 | 20 | 40 | 10 | 5.3 |
| Learn Exp | 0 | 11 | 11 | 55 | 0 | 11 | 11 | 4.2 |

Students found Ponge to be well-organized. Some students said that the textbook was of little use.

Instructor(s): T. Baird

| Enr: 101 | Resp: 21 |  |  |  |  | Retake: $38 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 9 | 14 | 23 | 52 | 0 | 5.2 |
| Explains | 0 | 0 | 0 | 28 | 28 | 38 | 4 | 5.2 |
| Communicates | 0 | 0 | 9 | 19 | 33 | 28 | 9 | 5.1 |
| Teaching | 0 | 0 | 14 | 19 | 33 | 28 | 4 | 4.9 |
| Workload | 4 | 0 | 4 | 42 | 28 | 14 | 4 | 4.5 |
| Difficulty | 0 | 4 | 0 | 19 | 38 | 19 | 19 | 5.2 |
| Learn Exp | 6 | 6 | 18 | 43 | 12 | 12 | 0 | 3.9 |

Some students said that Baird was friendly and very helpful. The course was said to be difficult, and more examples would have been helpful.

Instructor(s): A. Lam

| Enr: 173 | Resp: 137 |  |  |  | Retake: $70 \%$ |  |  |  |
| :--- | ---: | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 0 | 5 | 21 | 72 | 6.7 |
| Explains | 0 | 0 | 0 | 0 | 8 | 16 | 74 | 6.6 |
| Communicates | 0 | 0 | 0 | 0 | 3 | 14 | 81 | 6.8 |
| Teaching | 0 | 0 | 0 | 0 | 2 | 24 | 72 | 6.6 |
| Workload | 1 | 1 | 7 | 39 | 25 | 17 | 7 | 4.7 |
| Difficulty | 1 | 1 | 2 | 31 | 27 | 27 | 5 | 5.0 |
| Learn Exp | 0 | 0 | 1 | 14 | 26 | 35 | 20 | 5.6 |

Lam was said to be a fantastic instructor. Many students said he was caring, gave many examples, and he always made lectures fun. Some students said the tests were hard, and that the tutorials were not really useful. The course was hard but most people liked it.

Instructor(s): A. Lam

| Enr: 169 | Resp: 112 |  |  |  |  | Retake: 65\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 0 | 6 | 19 | 73 | 6.7 |
| Explains | 0 | 0 | 0 | 0 | 9 | 15 | 75 | 6.7 |
| Communicates | 0 | 0 | 0 | 0 | 2 | 20 | 77 | 6.7 |
| Teaching | 0 | 0 | 0 | 0 | 1 | 22 | 75 | 6.7 |
| Workload | 0 | 0 | 4 | 34 | 32 | 21 | 5 | 4.8 |
| Difficulty | 1 | 0 | 5 | 23 | 29 | 33 | 5 | 5.0 |
| Learn Exp | 0 | 0 | 1 | 24 | 28 | 29 | 17 | 5.4 |

Students referred to Lam as great and very funny. His explanations were very clear and helpful. He was organized, enthusiastic and conveyed the expectations clearly.

Instructor(s): J. Arthur
Enr: 160 Resp: 43 Retake: 56\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 18 | 30 | 34 | 16 | 5.5 |
| Explains | 0 | 2 | 0 | 25 | 25 | 25 | 20 | 5.3 |
| Communicates | 0 | 0 | 2 | 9 | 32 | 30 | 25 | 5.7 |
| Teaching | 0 | 0 | 6 | 4 | 34 | 27 | 25 | 5.6 |
| Workload | 0 | 0 | 0 | 42 | 28 | 23 | 4 | 4.9 |
| Difficulty | 0 | 0 | 0 | 21 | 43 | 21 | 12 | 5.2 |
| Learn Exp | 0 | 0 | 10 | 35 | 35 | 17 | 0 | 4.6 |

Students were generally pleased with Arthur's enthusiasm and clear explanations.

Some students were concerned that the different sections of the course covered slightly different material and thus some sections were better prepared for the tests than others.

Instructor(s): E. LeBlanc
Enr: 95
Resp: 42
Retake: 57\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 7 | 17 | 31 | 43 | 6.1 |
| Explains | 0 | 0 | 0 | 7 | 17 | 39 | 36 | 6.0 |
| Communicates | 0 | 0 | 2 | 17 | 21 | 31 | 26 | 5.6 |
| Teaching | 0 | 0 | 0 | 4 | 24 | 39 | 31 | 6.0 |
| Workload | 0 | 0 | 2 | 34 | 24 | 31 | 7 | 5.1 |
| Difficulty | 0 | 0 | 2 | 22 | 37 | 25 | 12 | 5.2 |
| Learn Exp | 0 | 0 | 3 | 46 | 23 | 23 | 3 | 4.8 |

Students said that LeBlanc made very good use of examples.
Instructor(s): A. Gracia-Saz
Enr: 95
Resp: 95
Retake: 59\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 0 | 7 | 11 | 81 | 6.7 |
| Explains | 0 | 0 | 0 | 1 | 3 | 18 | 76 | 6.7 |
| Communicates | 0 | 0 | 0 | 0 | 5 | 23 | 71 | 6.7 |
| Teaching | 0 | 0 | 0 | 0 | 2 | 14 | 83 | 6.8 |
| Workload | 0 | 1 | 2 | 32 | 25 | 28 | 10 | 5.1 |
| Difficulty | 0 | 0 | 4 | 26 | 29 | 23 | 16 | 5.2 |
| Learn Exp | 0 | 2 | 4 | 30 | 29 | 21 | 12 | 5.0 |

Most students agreed that Gracia-Saz was an excellent instructor. He was a fantastic lecturer and made the course material interesting. The tests were challenging, but most enjoyed the course.

Instructor(s): J. Stewart
Enr: 146
Resp: 81
Retake: 44\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 2 | 15 | 35 | 47 | 6.3 |
| Explains | 0 | 0 | 0 | 3 | 18 | 33 | 43 | 6.2 |
| Communicates | 0 | 0 | 0 | 5 | 18 | 32 | 43 | 6.1 |
| Teaching | 0 | 0 | 0 | 5 | 18 | 23 | 52 | 6.2 |
| Workload | 0 | 0 | 5 | 32 | 31 | 25 | 5 | 4.9 |
| Difficulty | 0 | 0 | 1 | 20 | 35 | 25 | 17 | 5.4 |
| Learn Exp | 1 | 0 | 4 | 44 | 25 | 11 | 13 | 4.8 |

Many students enjoyed Stewart's teaching style and found that being taught by the author of the textbook was a great advantage. They also found him very approachable for questions both during and outside of class.

Several students found the tests difficult and somewhat unrelated to the material being taught.

Instructor(s): T. Le

| Enr: 77 | Resp: 28 |  |  |  | Retake: $47 \%$ |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 3 | 0 | 0 | 14 | 14 | 39 | 28 | 5.7 |


| Explains | 0 | 3 | 3 | 10 | 21 | 32 | 28 | 5.6 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Communicates | 3 | 0 | 0 | 10 | 32 | 17 | 35 | 5.6 |
| Teaching | 3 | 0 | 3 | 7 | 17 | 32 | 35 | 5.8 |
| Workload | 0 | 0 | 7 | 39 | 32 | 14 | 7 | 4.8 |
| Difficulty | 0 | 0 | 3 | 39 | 21 | 28 | 7 | 5.0 |
| Learn Exp | 0 | 4 | 8 | 56 | 21 | 4 | 4 | 4.3 |

Le was clear, enthusiastic, approachable and helpful.

## MAT 137Y1Y Calculus!

Instructor(s): S. Uppal

| Enr: 87 | Resp: 48 |  |  |  |  | Retake: 69\% |  |  |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 4 | 6 | 39 | 50 | 6.4 |
| Explains | 0 | 0 | 0 | 2 | 14 | 50 | 33 | 6.1 |
| Communicates | 0 | 0 | 2 | 2 | 16 | 45 | 33 | 6.1 |
| Teaching | 0 | 0 | 0 | 2 | 4 | 52 | 41 | 6.3 |
| Workload | 0 | 0 | 2 | 8 | 29 | 42 | 17 | 5.6 |
| Difficulty | 0 | 0 | 4 | 17 | 19 | 48 | 10 | 5.4 |
| Learn Exp | 0 | 0 | 0 | 14 | 22 | 54 | 8 | 5.6 |

Uppal was a very good lecturer with great mastery of the material. Students enjoyed the course but found the material difficult.

Instructor(s): B. Khesin

| Enr: 62 | Resp: 28 |  |  |  |  | Retake: 65\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 17 | 14 | 25 | 42 | 5.9 |
| Explains | 0 | 0 | 0 | 10 | 17 | 46 | 25 | 5.9 |
| Communicates | 0 | 0 | 0 | 0 | 14 | 42 | 42 | 6.3 |
| Teaching | 0 | 0 | 0 | 3 | 17 | 60 | 17 | 5.9 |
| Workload | 0 | 0 | 3 | 17 | 21 | 35 | 21 | 5.5 |
| Difficulty | 0 | 0 | 0 | 14 | 14 | 50 | 21 | 5.8 |
| Learn Exp | 0 | 0 | 9 | 22 | 22 | 40 | 4 | 5.1 |

Students enjoyed Khesin's stories and extra material. Sometimes they found him hard to understand, but he was enthusiastic and knowledgeable. Students found the tests and problem sets difficult and too lengthy.

Instructor(s): S. Homayouni-Boroojeni

| Enr: 78 | Resp: 28 |  |  |  |  | Retake: $52 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 3 | 0 | 10 | 10 | 25 | 28 | 21 | 5.2 |
| Explains | 3 | 0 | 7 | 10 | 17 | 28 | 32 | 5.5 |
| Communicates | 3 | 0 | 0 | 0 | 21 | 35 | 39 | 6.0 |
| Teaching | 3 | 0 | 7 | 3 | 18 | 40 | 25 | 5.6 |
| Workload | 3 | 0 | 0 | 14 | 21 | 35 | 25 | 5.6 |
| Difficulty | 3 | 0 | 3 | 14 | 17 | 39 | 21 | 5.5 |
| Learn Exp | 0 | 0 | 5 | 15 | 30 | 35 | 15 | 5.4 |

Students commented that the instructor was very enthusiastic and inspiring. Homayouni-Boroojeni was always available for questions in and outside of class. A few students mentioned that the problem sets were too difficult.

Instructor(s): J. Sylvestre

| Enr: 63 | Resp: 19 |  |  |  |  | Retake: 41\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 21 | 21 | 36 | 19 | 5.7 |
| Explains | 0 | 0 | 5 | 21 | 15 | 26 | 31 | 5.6 |
| Communicates | 0 | 0 | 10 | 21 | 15 | 42 | 10 | 5.2 |
| Teaching | 0 | 0 | 0 | 31 | 21 | 26 | 21 | 5.4 |
| Workload | 0 | 0 | 0 | 21 | 36 | 31 | 10 | 5.3 |
| Difficulty | 0 | 0 | 0 | 21 | 26 | 42 | 10 | 5.4 |
| Learn Exp | 0 | 0 | 6 | 31 | 18 | 31 | 12 | 5.1 |

Students found Sylvestre enthusiastic. The detailed explanations and
many examples were a great help to students. Some found the assignments tedious and difficult, with not a lot of comments on marking. The class notes were found to be not very useful.

Instructor(s): R. Stanczak

| Enr: 52 | Resp: 10 |  |  |  |  | Retake: 55\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 30 | 20 | 10 | 40 | 5.6 |
| Explains | 0 | 0 | 10 | 0 | 30 | 10 | 50 | 5.9 |
| Communicates | 0 | 0 | 10 | 0 | 20 | 30 | 40 | 5.9 |
| Teaching | 0 | 0 | 0 | 20 | 20 | 30 | 30 | 5.7 |
| Workload | 0 | 0 | 0 | 22 | 11 | 55 | 11 | 5.6 |
| Difficulty | 0 | 0 | 0 | 11 | 11 | 55 | 22 | 5.9 |
| Learn Exp | 0 | 12 | 0 | 12 | 25 | 37 | 12 | 5.1 |

MAT 157Y1Y Analysis I
Instructor(s): E. Bierstone
Enr: 80
Resp: 49
Retake: 93\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 0 | 6 | 16 | 77 | 6.7 |
| Explains | 0 | 0 | 0 | 2 | 2 | 12 | 83 | 6.8 |
| Communicates | 0 | 0 | 0 | 0 | 2 | 20 | 77 | 6.8 |
| Teaching | 0 | 0 | 0 | 0 | 2 | 10 | 87 | 6.9 |
| Workload | 0 | 0 | 0 | 14 | 25 | 34 | 25 | 5.7 |
| Difficulty | 0 | 2 | 2 | 6 | 23 | 36 | 29 | 5.8 |
| Learn Exp | 0 | 0 | 2 | 5 | 5 | 15 | 72 | 6.5 |

Bierstone made the material interesting and engaging. He was organized and an excellent instructor. The course was said to be very enjoyable. It would have been nice to post solutions of the homework. The workload was high, and the material difficult.

MAT 223H1F Linear Algebra I
Instructor(s): S. Uppal
Enr: 121
Resp: 84
Retake: 56\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 1 | 5 | 20 | 34 | 38 | 6.0 |
| Explains | 0 | 0 | 0 | 10 | 15 | 34 | 38 | 6.0 |
| Communicates | 0 | 1 | 3 | 8 | 27 | 38 | 21 | 5.6 |
| Teaching | 0 | 0 | 1 | 1 | 24 | 40 | 32 | 6.0 |
| Workload | 0 | 0 | 5 | 40 | 27 | 17 | 8 | 4.8 |
| Difficulty | 0 | 0 | 4 | 33 | 22 | 29 | 9 | 5.1 |
| Learn Exp | 0 | 1 | 1 | 35 | 28 | 20 | 13 | 5.0 |

Students found Uppal extremely helpful, approachable and very knowledgeable. Students also felt that the TAs were not very helpful and illprepared for teaching this course.

Instructor(s): A. Fischer

| Enr: 102 | Resp: 29 |  |  |  |  | Retake: 48\% |  |  |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 6 | 31 | 41 | 20 | 5.8 |
| Explains | 0 | 0 | 3 | 13 | 48 | 17 | 17 | 5.3 |
| Communicates | 3 | 0 | 3 | 31 | 34 | 17 | 10 | 4.9 |
| Teaching | 0 | 0 | 0 | 17 | 41 | 31 | 10 | 5.3 |
| Workload | 0 | 3 | 6 | 44 | 3 | 27 | 13 | 4.9 |
| Difficulty | 0 | 3 | 0 | 20 | 37 | 17 | 20 | 5.3 |
| Learn Exp | 3 | 0 | 3 | 32 | 35 | 14 | 10 | 4.8 |

Although students did not seem highly enthusiastic about the course, they felt that the instructor did a good job considering it was his first time teaching. Some students felt that the course was a little disorganized and the lectures were fast paced.

Instructor(s): B. Koenig

| Enr: 136 | Resp: 45 |  |  |  |  | Retake: 42\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 2 | 20 | 20 | 30 | 16 | 9 | 4.7 |
| Explains | 4 | 6 | 20 | 25 | 27 | 11 | 2 | 4.1 |
| Communicates | 9 | 9 | 15 | 29 | 22 | 9 | 4 | 3.9 |
| Teaching | 0 | 6 | 18 | 25 | 34 | 13 | 2 | 4.4 |
| Workload | 0 | 4 | 9 | 48 | 20 | 9 | 6 | 4.4 |
| Difficulty | 0 | 0 | 2 | 32 | 27 | 25 | 11 | 5.1 |
| Learn Exp | 2 | 18 | 13 | 45 | 21 | 2 | 5 | 4.1 |

Many students felt that the instructor lacked enthusiasm and excitement. The material was also dull and hard to follow. Students also said that the instructor moved too fast at times and that more examples could have helped with the understanding of the lecture material.

## MAT 223H1S Linear Algebra I

Instructor(s): A. Hammerlindl

| Enr: 78 | Resp: 20 |  |  |  |  | Retake: 62\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 5 | 20 | 35 | 40 | 6.1 |
| Explains | 0 | 0 | 0 | 5 | 15 | 35 | 45 | 6.2 |
| Communicates | 0 | 0 | 0 | 10 | 15 | 35 | 40 | 6.1 |
| Teaching | 0 | 0 | 0 | 5 | 10 | 40 | 45 | 6.2 |
| Workload | 0 | 10 | 0 | 36 | 31 | 15 | 5 | 4.6 |
| Difficulty | 0 | 5 | 0 | 36 | 31 | 15 | 10 | 4.8 |
| Learn Exp | 0 | 0 | 7 | 23 | 30 | 23 | 15 | 5.2 |

Hammerlindl was described as a very good instructor. Students found that he explained the material in a clear and easy to follow manner. Students found the tests and quizzes difficult and found the tutorials lacking.

Instructor(s): D. Krepski

| Enr: 59 | Resp: 24 |  |  |  |  | Retake: 68\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 13 | 4 | 39 | 43 | 6.1 |
| Explains | 0 | 0 | 0 | 13 | 8 | 34 | 43 | 6.1 |
| Communicates | 0 | 0 | 0 | 13 | 8 | 30 | 47 | 6.1 |
| Teaching | 0 | 0 | 0 | 0 | 21 | 30 | 47 | 6.3 |
| Workload | 0 | 0 | 4 | 39 | 39 | 13 | 4 | 4.7 |
| Difficulty | 0 | 0 | 4 | 34 | 43 | 17 | 0 | 4.7 |
| Learn Exp | 0 | 5 | 5 | 27 | 16 | 33 | 11 | 5.0 |

Students thought that Krepski was a very enthusiastic, well-organized and interesting instructor. Some raised concerns that the textbook used in the course, as well as a lack of clarity in expectations for the mid term exam.

Instructor(s): S. Uppal

| Enr: 130 | Resp: 67 |  |  |  |  | Retake: $50 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 1 | 1 | 0 | 6 | 18 | 38 | 33 | 5.9 |
| Explains | 0 | 1 | 1 | 6 | 21 | 39 | 30 | 5.9 |
| Communicates | 0 | 1 | 4 | 8 | 22 | 46 | 16 | 5.6 |
| Teaching | 0 | 1 | 0 | 11 | 11 | 46 | 28 | 5.9 |
| Workload | 0 | 1 | 4 | 35 | 26 | 22 | 8 | 4.9 |
| Difficulty | 0 | 0 | 2 | 26 | 26 | 31 | 11 | 5.2 |
| Learn Exp | 2 | 0 | 6 | 41 | 18 | 25 | 4 | 4.7 |

Students said that Uppal was clear, well-organized and well-prepared. Some students said the midterm was difficult.

## MAT 224H1F Linear Algebra II

Instructor(s): S. Uppal

| Enr: 104 | Resp: 51 |  |  |  |  | Retake: 67\% |  |  |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 10 | 26 | 26 | 38 | 5.9 |
| Explains | 0 | 0 | 5 | 11 | 31 | 21 | 29 | 5.6 |


| Communicates | 0 | 0 | 5 | 15 | 21 | 33 | 23 | 5.5 |
| :--- | :--- | :--- | :--- | :--- | :--- | ---: | ---: | ---: |
| Teaching | 0 | 0 | 0 | 11 | 21 | 35 | 31 | 5.9 |
| Workload | 1 | 0 | 3 | 58 | 21 | 9 | 3 | 4.4 |
| Difficulty | 1 | 0 | 3 | 49 | 23 | 13 | 7 | 4.6 |
| Learn Exp | 5 | 2 | 2 | 36 | 15 | 23 | 13 | 4.8 |

Students had a very good experience with the instructor. They found him to be a good teacher. Students also felt that it would have been helpful if the instructor could have gone through more examples in class.

## MAT 224H1S Linear Algebra II

Instructor(s): D. Klein

| Enr: 47 | Resp: 14 |  |  |  |  | Retake: 69\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 7 | 7 | 21 | 35 | 28 | 5.7 |
| Explains | 0 | 0 | 7 | 7 | 28 | 35 | 21 | 5.6 |
| Communicates | 0 | 0 | 0 | 7 | 28 | 42 | 21 | 5.8 |
| Teaching | 0 | 7 | 0 | 7 | 35 | 42 | 7 | 5.3 |
| Workload | 0 | 0 | 7 | 50 | 21 | 14 | 7 | 4.6 |
| Difficulty | 0 | 0 | 0 | 28 | 35 | 28 | 7 | 5.1 |
| Learn Exp | 0 | 0 | 0 | 50 | 40 | 10 | 0 | 4.6 |

Klein was organized, clear, enthusiastic and approachable. Some students found the material and tests difficult

Instructor(s): A.D. Tornquist

| Enr: 49 | Resp: 16 |  |  |  |  | Retake: $53 \%$ |  |  |
| :--- | ---: | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 18 | 12 | 31 | 37 | 5.9 |
| Explains | 0 | 6 | 0 | 18 | 12 | 25 | 37 | 5.6 |
| Communicates | 0 | 6 | 0 | 18 | 12 | 12 | 50 | 5.8 |
| Teaching | 0 | 0 | 6 | 6 | 25 | 12 | 50 | 5.9 |
| Workload | 0 | 0 | 6 | 46 | 26 | 20 | 0 | 4.6 |
| Difficulty | 0 | 0 | 0 | 31 | 31 | 12 | 25 | 5.3 |
| Learn Exp | 0 | 8 | 8 | 33 | 8 | 33 | 8 | 4.8 |

Most students found Tornquist to be a good teacher, with clear and concise presentation of theorems with detailed proofs. The extra material was interesting, but not necessarily relevant. The instructor was very serious about the lectures, but was readily available for outside help. There were some concerns about the specific expectations for the midterm exam.

Instructor(s): S. Uppal

| Enr: 76 | Resp: 32 |  |  |  |  | Retake: 68\% |  |  |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 3 | 9 | 25 | 62 | 6.5 |
| Explains | 0 | 0 | 0 | 0 | 21 | 28 | 0 | 6.3 |
| Communicates | 0 | 0 | 0 | 12 | 1 | 41 | 32 | 5.9 |
| Teaching | 0 | 0 | 0 | 6 | 3 | 50 | 40 | 6.2 |
| Workload | 0 | 3 | 0 | 37 | 25 | 25 | 9 | 5.0 |
| Difficulty | 0 | 0 | 0 | 25 | 31 | 25 | 18 | 5.4 |
| Learn Exp | 0 | 0 | 0 | 16 | 33 | 33 | 16 | 5.5 |

Students were very pleased with the lecturer who was enthusiastic and good at explaining difficult concepts.

Students liked the course, although they found it quite difficult. Some were displeased with the textbook.

## MAT 235Y1Y Calculus II

Instructor(s): R. Pujol

| Enr: 69 | Resp: 27 |  |  |  | Retake: 69\% |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 3 | 7 | 11 | 37 | 29 | 11 | 5.1 |
| Explains | 0 | 0 | 11 | 18 | 25 | 29 | 14 | 5.2 |
| Communicates | 0 | 0 | 7 | 11 | 29 | 37 | 14 | 5.4 |
| Teaching | 0 | 0 | 0 | 15 | 50 | 19 | 15 | 5.3 |
| Workload | 0 | 7 | 3 | 59 | 11 | 11 | 7 | 4.4 |


| Difficulty | 0 | 7 | 7 | 40 | 22 | 14 | 7 | 4.5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Learn Exp | 0 | 5 | 5 | 50 | 25 | 10 | 5 | 4.4 |

Most students found the instructor to be very enthusiastic and clear. Some students, however, said that lectures were unorganized and they lacked useful examples.

## Instructor(s): P. Pujol

| Enr: 72 | Resp: 38 |  |  |  |  | Retake: $55 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 2 | 0 | 2 | 8 | 40 | 24 | 21 | 5.4 |
| Explains | 2 | 0 | 2 | 5 | 24 | 27 | 37 | 5.8 |
| Communicates | 0 | 0 | 0 | 2 | 24 | 29 | 43 | 6.1 |
| Teaching | 2 | 0 | 0 | 5 | 24 | 38 | 29 | 5.8 |
| Workload | 2 | 0 | 0 | 32 | 51 | 10 | 2 | 4.7 |
| Difficulty | 2 | 0 | 2 | 32 | 40 | 16 | 5 | 4.8 |
| Learn Exp | 3 | 0 | 3 | 34 | 34 | 20 | 3 | 4.7 |

Pujol was available for questions, and was very thorough, clear and concise in his explanations. Some students raised concerns that there were too few examples. The assignments were difficult and long, and not related to the tests.

Instructor(s): Y-H. Kim

| Enr: 64 | Resp: 14 |  |  |  |  | Retake: 61\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 28 | 14 | 50 | 7 | 5.4 |
| Explains | 0 | 0 | 14 | 7 | 28 | 42 | 7 | 5.2 |
| Communicates | 0 | 0 | 7 | 14 | 28 | 42 | 7 | 5.3 |
| Teaching | 0 | 0 | 7 | 21 | 21 | 50 | 0 | 5.1 |
| Workload | 0 | 7 | 7 | 50 | 21 | 14 | 0 | 4.3 |
| Difficulty | 0 | 14 | 0 | 35 | 35 | 14 | 0 | 4.4 |
| Learn Exp | 0 | 0 | 25 | 16 | 50 | 8 | 0 | 4.4 |

Students found Kim enthusiastic and readily available to answer questions. However, he was a little disorganized and sometimes difficult to understand.

## MAT 237Y1Y Multivariable Calculus

Instructor(s): R. Stanczak

| Enr: 50 | Resp: 47 |  |  |  |  | Retake: 29\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 6 | 2 | 6 | 21 | 31 | 23 | 8 | 4.7 |
| Explains | 6 | 4 | 6 | 10 | 38 | 27 | 6 | 4.8 |
| Communicates | 4 | 2 | 10 | 10 | 28 | 32 | 10 | 5.0 |
| Teaching | 6 | 0 | 4 | 19 | 34 | 25 | 10 | 4.9 |
| Workload | 0 | 2 | 0 | 20 | 31 | 28 | 17 | 5.4 |
| Difficulty | 0 | 0 | 2 | 9 | 13 | 34 | 39 | 6.0 |
| Learn Exp | 13 | 6 | 24 | 6 | 17 | 24 | 6 | 4.1 |

Stanczak's effective use of examples greatly helped students to understand the difficult material.
The course was one of the most difficult the students had ever taken. Many wished that there were regularly scheduled tutorials to supplement the lectures.

Instructor(s): F. Ziltener

| Enr: 34 | Resp: 6 |  |  |  |  |  | Retake: 16\% |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 33 | 16 | 33 | 16 | 0 | 4.3 |
| Explains | 16 | 0 | 33 | 16 | 0 | 16 | 16 | 4.0 |
| Communicates | 16 | 0 | 0 | 0 | 16 | 16 | 50 | 5.5 |
| Teaching | 0 | 33 | 0 | 16 | 16 | 33 | 0 | 4.2 |
| Workload | 0 | 0 | 0 | 16 | 50 | 0 | 33 | 5.5 |
| Difficulty | 0 | 0 | 0 | 0 | 33 | 0 | 66 | 6.3 |
| Learn Exp | 33 | 16 | 0 | 16 | 16 | 16 | 0 | 3.2 |

MAT 240H1F Algebra I
Instructor(s): F. Murnaghan

| Enr: 86 | Resp: 57 |  |  |  |  | Retake: 81\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 3 | 7 | 16 | 23 | 29 | 20 | 5.3 |
| Explains | 0 | 3 | 8 | 22 | 17 | 26 | 21 | 5.2 |
| Communicates | 0 | 1 | 8 | 12 | 31 | 14 | 31 | 5.4 |
| Teaching | 0 | 0 | 5 | 17 | 19 | 35 | 21 | 5.5 |
| Workload | 3 | 3 | 1 | 52 | 21 | 10 | 5 | 4.4 |
| Difficulty | 0 | 5 | 1 | 33 | 27 | 24 | 7 | 4.9 |
| Learn Exp | 0 | 4 | 4 | 28 | 12 | 24 | 26 | 5.3 |

Students felt that the instructor was enthusiastic and explained key concepts so that they were easy to understand. A few students felt that if she spoke a little louder her performance as a lecturer would have been even better.

MAT 244H1F Introduction to Ordinary Differential Equations
Instructor(s): S. Homayouni-Boroojeni

| Enr: 98 | Resp: 47 |  |  |  |  | Retake: 48\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 2 | 2 | 22 | 25 | 20 | 20 | 6 | 4.5 |
| Explains | 2 | 8 | 15 | 32 | 13 | 19 | 8 | 4.4 |
| Communicates | 0 | 2 | 0 | 19 | 32 | 34 | 10 | 5.3 |
| Teaching | 4 | 4 | 6 | 26 | 15 | 23 | 8 | 4.6 |
| Workload | 2 | 2 | 4 | 36 | 30 | 17 | 6 | 4.7 |
| Difficulty | 2 | 0 | 10 | 37 | 17 | 26 | 8 | 4.8 |
| Learn Exp | 2 | 11 | 14 | 40 | 20 | 5 | 5 | 4.0 |

Students generally felt that the instructor generated enthusiasm in the class, but many students found problems with the way the course was organized. Students suggested a shorter than 3 hour lecture and no problem sets on days on which midterms were scheduled.

## MAT 244H1S Introduction to Ordinary Differential Equations

Instructor(s): G. Sigloch

| Enr: 92 | Resp: 43 |  |  |  |  | Retake: $75 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 2 | 2 | 20 | 25 | 27 | 20 | 5.4 |
| Explains | 0 | 2 | 4 | 18 | 23 | 32 | 18 | 5.3 |
| Communicates | 2 | 0 | 4 | 14 | 40 | 26 | 11 | 5.2 |
| Teaching | 0 | 2 | 4 | 13 | 39 | 18 | 20 | 5.3 |
| Workload | 0 | 0 | 16 | 51 | 20 | 9 | 2 | 4.3 |
| Difficulty | 0 | 0 | 18 | 53 | 13 | 6 | 6 | 4.3 |
| Learn Exp | 2 | 0 | 5 | 36 | 30 | 19 | 5 | 4.7 |

Most students felt that Sigloch was a good lecturer. He was praised for his frequent communication with the class via email. The problem sets were viewed as underweighted in proportion to how long they generally took to complete. In spite of this, the course was generally described as useful and interesting.

## MAT 246H1F Concepts in Abstract Mathematics

Instructor(s): P. Rosenthal

| Enr: 50 | Resp: 31 |  |  |  |  | Retake: $96 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 9 | 41 | 32 | 16 | 5.5 |
| Explains | 0 | 0 | 0 | 6 | 45 | 32 | 16 | 5.6 |
| Communicates | 0 | 0 | 0 | 3 | 35 | 32 | 29 | 5.9 |
| Teaching | 0 | 0 | 0 | 0 | 25 | 45 | 29 | 6.0 |
| Workload | 3 | 12 | 19 | 54 | 9 | 0 | 0 | 3.5 |
| Difficulty | 0 | 6 | 12 | 64 | 16 | 0 | 0 | 3.9 |
| Learn Exp | 0 | 0 | 0 | 30 | 26 | 30 | 11 | 5.2 |

Students felt that Rosenthal had organized lectures and explained the concepts clearly. He was approachable, accessible and was very enthusiastic about teaching.

## MAT 246H1S Concepts in Abstract Mathematics

Instructor(s): P. Rosenthal

| Enr: 56 | Resp: 30 |  |  |  |  | Retake: $75 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 6 | 6 | 48 | 31 | 6 | 5.2 |
| Explains | 0 | 0 | 0 | 6 | 26 | 56 | 10 | 5.7 |
| Communicates | 0 | 0 | 0 | 6 | 13 | 58 | 20 | 5.9 |
| Teaching | 0 | 0 | 0 | 0 | 30 | 56 | 13 | 5.8 |
| Workload | 0 | 6 | 20 | 58 | 13 | 0 | 0 | 3.8 |
| Difficulty | 0 | 0 | 31 | 34 | 31 | 3 | 0 | 4.1 |
| Learn Exp | 0 | 0 | 4 | 29 | 25 | 29 | 12 | 5.2 |

Students thought Rosenthal was an interesting and good instructor. Students wanted more examples and felt the test did not correspond to the material covered in assignments. Some thought that the course should be a full year one because of the amount of material. Students noted that it was very hard to catch up if a class was missed, and that the expectations were not clearly stated.

Instructor(s): B. Koenig

| Enr: 31 | Resp: 15 |  |  |  | Retake: 69\% |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 6 | 33 | 46 | 13 | 5.7 |
| Explains | 0 | 0 | 0 | 0 | 33 | 46 | 20 | 5.9 |
| Communicates | 0 | 0 | 6 | 0 | 33 | 53 | 6 | 5.5 |
| Teaching | 0 | 0 | 0 | 13 | 46 | 20 | 20 | 5.5 |
| Workload | 0 | 13 | 6 | 73 | 6 | 0 | 0 | 3.7 |
| Difficulty | 6 | 0 | 13 | 73 | 6 | 0 | 0 | 3.7 |
| Learn Exp | 0 | 0 | 0 | 25 | 58 | 8 | 8 | 5.0 |

MAT 247H1S Algebra II
Instructor(s): F. Murnaghan
Enr: 57
Resp: 40
Retake: 88\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 2 | 0 | 0 | 10 | 12 | 40 | 35 | 5.9 |
| Explains | 2 | 0 | 2 | 5 | 12 | 25 | 51 | 6.1 |
| Communicates | 2 | 0 | 0 | 15 | 2 | 27 | 52 | 6.1 |
| Teaching | 2 | 0 | 0 | 2 | 15 | 28 | 51 | 6.2 |
| Workload | 5 | 2 | 2 | 45 | 25 | 7 | 12 | 4.6 |
| Difficulty | 5 | 2 | 5 | 25 | 20 | 30 | 10 | 4.9 |
| Learn Exp | 3 | 0 | 0 | 16 | 12 | 32 | 35 | 5.7 |

Murnaghan's lectures were highly praised. The weekly problem sets were said to be very helpful in understanding the material. However, students noted that having them due the day of the tutorial reflected poorly on the co-ordination of the course.
Overall, it was an interesting and useful course.

## MAT 257Y1Y Analysis II

Instructor(s): A. Burchard

| Enr: 34 | Resp: 22 |  |  |  |  | Retake: $94 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 0 | 22 | 31 | 45 | 6.2 |
| Explains | 0 | 0 | 0 | 4 | 9 | 40 | 45 | 6.3 |
| Communicates | 0 | 0 | 0 | 0 | 0 | 27 | 72 | 6.7 |
| Teaching | 0 | 0 | 0 | 4 | 0 | 40 | 54 | 6.5 |
| Workload | 0 | 0 | 0 | 27 | 27 | 13 | 31 | 5.5 |
| Difficulty | 0 | 0 | 0 | 9 | 18 | 18 | 54 | 6.2 |
| Learn Exp | 0 | 0 | 0 | 5 | 15 | 35 | 45 | 6.2 |

Students were generally impressed with Burchard's teaching. She put extensive effort into teaching and was very enthusiastic. She was approachable and especially helpful during office hours.

Students found the course difficult, but nevertheless, very enjoyable. For some, this was their favourite course so far.

MAT 301H1F Groups and Symmetries
Instructor(s): K. Kaveh
Enr: 69
Resp: 44
Retake: 56\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 4 | 0 | 23 | 16 | 34 | 20 | 5.4 |
| Explains | 0 | 0 | 2 | 20 | 13 | 40 | 22 | 5.6 |
| Communicates | 0 | 0 | 0 | 15 | 11 | 36 | 36 | 5.9 |
| Teaching | 0 | 0 | 0 | 22 | 11 | 40 | 25 | 5.7 |
| Workload | 0 | 2 | 0 | 58 | 18 | 9 | 11 | 4.7 |
| Difficulty | 0 | 4 | 2 | 32 | 34 | 13 | 11 | 4.9 |
| Learn Exp | 0 | 6 | 0 | 43 | 18 | 18 | 12 | 4.8 |

Students felt that Kaveh was knowledgeable, approachable and a great teacher. Some students felt that online notes would have improved the class experience.

## MAT 301H1S Groups and Symmetries

Instructor(s): K. Kaveh

| Enr: 50 | Resp: 44 |  |  |  |  | Retake: 72\% |  |  |
| :--- | :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 2 | 6 | 9 | 34 | 27 | 18 | 5.3 |
| Explains | 0 | 2 | 0 | 6 | 23 | 39 | 27 | 5.8 |
| Communicates | 0 | 0 | 0 | 4 | 13 | 32 | 48 | 6.3 |
| Teaching | 0 | 0 | 0 | 4 | 23 | 46 | 25 | 5.9 |
| Workload | 0 | 0 | 4 | 65 | 27 | 0 | 2 | 4.3 |
| Difficulty | 2 | 0 | 6 | 45 | 25 | 15 | 4 | 4.6 |
| Learn Exp | 0 | 0 | 2 | 17 | 50 | 23 | 5 | 5.1 |

Kaveh's humourous lecturing style and his entertaining historical insight were highly praised. The 3 hour evening lectures seemed to fly by. Kaveh made the abstract material interesting and accessible, while giving clear and effective lectures.

Students generally found the textbook subpar. The high quality of the lectures, however, more than made up for this. Most agreed that the course material was very interesting.

## MAT 309H1F Introduction to Mathematical Logic

Instructor(s): S. Homayouni-Boroojeni

| Enr: 19 | Resp: 15 |  |  |  | Retake: 46\% |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 13 | 13 | 46 | 20 | 0 | 6 | 4.0 |
| Explains | 0 | 6 | 33 | 40 | 13 | 0 | 6 | 3.9 |
| Communicates | 0 | 0 | 0 | 26 | 4 | 26 | 6 | 5.1 |
| Teaching | 0 | 13 | 6 | 33 | 40 | 0 | 6 | 4.3 |
| Workload | 0 | 0 | 0 | 20 | 40 | 20 | 20 | 5.4 |
| Difficulty | 0 | 0 | 0 | 33 | 26 | 33 | 6 | 5.1 |
| Learn Exp | 0 | 9 | 9 | 63 | 9 | 9 | 0 | 4.0 |

Although students found the instructor approachable, knowledgeable and enthusiastic, many students found the course material difficult and the workload high.

## MAT 315H1S Introduction to Number Theory

Instructor(s): M. Wesslen

| Enr: 61 | Resp: 37 |  |  |  |  | Retake: $71 \%$ |  |  |
| :--- | :--- | ---: | :--- | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 2 | 5 | 16 | 43 | 32 | 6.0 |
| Explains | 0 | 0 | 2 | 10 | 32 | 27 | 27 | 5.6 |
| Communicates | 0 | 0 | 5 | 10 | 24 | 40 | 18 | 5.6 |
| Teaching | 0 | 0 | 0 | 2 | 32 | 51 | 13 | 5.8 |
| Workload | 0 | 0 | 0 | 33 | 41 | 13 | 11 | 5.0 |
| Difficulty | 0 | 2 | 0 | 33 | 36 | 22 | 5 | 4.9 |
| Learn Exp | 0 | 0 | 0 | 50 | 11 | 26 | 11 | 5.0 |

Wesslen was well-prepared, organized and approachable. Most students liked the lectures, although the pace may have been too fast, and some students would have liked to have seen more examples. There were several complaints about the marking of problem sets by the TA.

## MAT 327H1F Introduction to Topology

Instructor(s): S. Arkhipov

| Enr: 41 | Resp: 16 |  |  |  |  | Retake: $75 \%$ |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |  |
| Presents | 0 | 6 | 12 | 25 | 18 | 25 | 12 | 4.8 |  |
| Explains | 0 | 0 | 18 | 25 | 12 | 31 | 12 | 4.9 |  |
| Communicates | 0 | 0 | 0 | 6 | 18 | 50 | 25 | 5.9 |  |
| Teaching | 0 | 0 | 12 | 12 | 18 | 31 | 25 | 5.4 |  |
| Workload | 0 | 0 | 0 | 25 | 43 | 25 | 6 | 5.1 |  |
| Difficulty | 0 | 0 | 0 | 6 | 37 | 37 | 18 | 5.7 |  |
| Learn Exp | 0 | 0 | 6 | 12 | 50 | 12 | 18 | 5.2 |  |

Students found that the instructor was a nice, enthusiastic and approachable man. A few students felt lectures moved too fast.

## MAT 334H1S Complex Variables

Instructor(s): M-D. Choi

| Enr: 33 | Resp: 21 |  |  |  |  | Retake: 62\% |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 4 | 33 | 19 | 42 | 6.0 |
| Explains | 0 | 0 | 0 | 14 | 28 | 33 | 23 | 5.7 |
| Communicates | 0 | 0 | 0 | 9 | 9 | 28 | 52 | 6.2 |
| Teaching | 0 | 0 | 0 | 4 | 33 | 19 | 42 | 6.0 |
| Workload | 0 | 0 | 4 | 80 | 9 | 4 | 0 | 4.1 |
| Difficulty | 0 | 0 | 4 | 61 | 23 | 9 | 0 | 4.4 |
| Learn Exp | 0 | 0 | 7 | 38 | 15 | 15 | 23 | 5.1 |

Most students thought Choi was outstanding. He clearly explained difficult concepts and was exceptionally enthusiastic.

## MAT 337H1S Introduction to Real Analysis

Instructor(s): I. Graham

| Enr: 50 | Resp: 29 |  |  |  | Retake: 80\% |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 3 | 0 | 13 | 13 | 44 | 24 | 5.7 |
| Explains | 0 | 0 | 3 | 14 | 28 | 25 | 28 | 5.6 |
| Communicates | 3 | 0 | 3 | 17 | 17 | 21 | 35 | 5.5 |
| Teaching | 0 | 0 | 0 | 7 | 17 | 35 | 39 | 6.1 |
| Workload | 0 | 0 | 3 | 35 | 39 | 17 | 3 | 4.8 |
| Difficulty | 0 | 0 | 3 | 17 | 37 | 34 | 6 | 5.2 |
| Learn Exp | 0 | 0 | 4 | 22 | 18 | 31 | 22 | 5.5 |

Graham was a very good instructor. He was knowledgeable, enthusiastic and helpful The course contained difficult concepts but was well liked.

## MAT 344H1F Introduction to Combinatorics

Instructor(s): S. Tanny
Enr: 77
Resp: 48

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 2 | 0 | 2 | 12 | 33 | 20 | 29 | 5.5 |
| Explains | 2 | 0 | 0 | 8 | 16 | 39 | 33 | 5.9 |
| Communicates | 2 | 0 | 0 | 4 | 4 | 27 | 62 | 6.4 |
| Teaching | 2 | 0 | 0 | 4 | 20 | 31 | 41 | 6.0 |
| Workload | 6 | 0 | 8 | 52 | 26 | 4 | 2 | 4.1 |
| Difficulty | 4 | 2 | 6 | 45 | 32 | 8 | 0 | 4.3 |
| Learn Exp | 0 | 2 | 0 | 30 | 30 | 25 | 12 | 5.1 |

Students felt that Tanny was very knowledgeable, and explained all concepts very clearly. He also generated great enthusiasm in class. Students however, felt that the time allotted for quizzes was too short.

## MAT 347Y1Y Groups, Rings and Fields

Instructor(s): S. Kudla

| Enr: 18 | Resp: 14 |  |  |  |  | Retake: $71 \%$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 7 | 0 | 50 | 42 | 6.3 |
| Explains | 0 | 0 | 0 | 0 | 7 | 23 | 69 | 6.6 |


| Communicates | 0 | 0 | 0 | 0 | 0 | 30 | 69 | 6.7 |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| Teaching | 0 | 0 | 0 | 0 | 0 | 42 | 57 | 6.6 |
| Workload | 0 | 0 | 0 | 21 | 35 | 35 | 7 | 5.3 |
| Difficulty | 0 | 0 | 0 | 14 | 50 | 21 | 14 | 5.4 |
| Learn Exp | 0 | 0 | 0 | 15 | 15 | 38 | 30 | 5.8 |

Students said that Kudla was an excellent instructor who was kind, entertaining and held very useful office hours. However, a few students thought that he was a little disorganized, especially in regards to the blackboard use.
Most students found that the course was interesting, but one of the toughest in the department.

MAT 354H1F Complex Analysis I
Instructor(s): M-D. Choi
Enr: 40 Resp: 29 Retake: 88\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 6 | 3 | 13 | 27 | 48 | 6.1 |
| Explains | 0 | 0 | 6 | 3 | 17 | 31 | 41 | 6.0 |
| Communicates | 0 | 0 | 0 | 3 | 6 | 13 | 75 | 6.6 |
| Teaching | 0 | 0 | 3 | 17 | 6 | 27 | 44 | 5.9 |
| Workload | 0 | 13 | 10 | 55 | 13 | 3 | 3 | 3.9 |
| Difficulty | 0 | 3 | 13 | 55 | 17 | 6 | 3 | 4.2 |
| Learn Exp | 0 | 8 | 8 | 17 | 8 | 34 | 21 | 5.2 |

Students found the instructor quite enthusiastic. He conveyed excitement about the material. Students enjoyed the assignments. However a few students felt the course outline was a little misleading in that they expected the course material to be a little more "complex."

## MAT 357H1S Real Analysis I

Instructor(s): C. Pugh
Enr: $42 \quad$ Resp: 20
Retake: 82\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 0 | 15 | 35 | 50 | 6.3 |
| Explains | 0 | 0 | 0 | 5 | 10 | 25 | 60 | 6.4 |
| Communicates | 0 | 0 | 0 | 5 | 10 | 20 | 65 | 6.4 |
| Teaching | 0 | 0 | 0 | 5 | 10 | 40 | 45 | 6.2 |
| Workload | 0 | 0 | 0 | 22 | 33 | 38 | 5 | 5.3 |
| Difficulty | 0 | 0 | 0 | 11 | 11 | 61 | 16 | 5.8 |
| Learn Exp | 0 | 0 | 0 | 21 | 28 | 35 | 14 | 5.4 |

Students found Pugh to be a very good teacher who explained things very well. He was always inspiring and full of new and interesting ideas. However, some concern was raised toward the difficulty of the midterm test and the fact that assignments were sometimes given on material not yet covered in lectures.

## MAT 401H1S Polynomial Equations and Fields

Instructor(s): D. Bar-Natan

| Enr: 34 | Resp: 15 |  |  |  | Retake: $50 \%$ |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| Presents | 0 | 0 | 0 | 20 | 53 | 13 | 13 | 5.2 |
| Explains | 0 | 0 | 6 | 26 | 33 | 20 | 13 | 5.1 |
| Communicates | 0 | 0 | 0 | 28 | 50 | 21 | 14 | 5.9 |
| Teaching | 0 | 0 | 0 | 7 | 42 | 21 | 28 | 5.7 |
| Workload | 0 | 0 | 0 | 33 | 26 | 26 | 13 | 5.2 |
| Difficulty | 0 | 0 | 0 | 13 | 13 | 60 | 13 | 5.7 |
| Learn Exp | 0 | 0 | 7 | 28 | 35 | 28 | 0 | 4.9 |

Students found Bar-Natan to be extremely knowledgeable and enthusiastic, as well as humourous. The course was very difficult but interesting.

MAT 402H1S Classical Geometrics
Instructor(s): A. Khovanskii
Enr: 47
Resp: 24

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 4 | 21 | 34 | 21 | 4 | 8 | 4 | 3.4 |
| Explains | 4 | 13 | 26 | 17 | 26 | 8 | 4 | 3.9 |
| Communicates | 0 | 0 | 13 | 8 | 4 | 39 | 34 | 5.7 |
| Teaching | 1 | 8 | 21 | 21 | 17 | 21 | 4 | 4.2 |
| Workload | 4 | 8 | 8 | 30 | 30 | 13 | 4 | 4.3 |
| Difficulty | 0 | 9 | 4 | 18 | 27 | 36 | 4 | 4.9 |
| Learn Exp | 0 | 11 | 0 | 41 | 41 | 0 | 5 | 4.4 |

Most students felt that the instructor made poor use of the blackboard and would have preferred it if Khovanskii wrote down more of what he said. He was clearly very knowledgeable, but the class had a difficult time keeping up with the pace of the lectures.

The students appreciated having their peers' lecture notes posted online. However, many noted that a course textbook would have been helpful, as would online solutions to the assignments and midterm exam.

## MAT 409H1F Set Theory

Instructor(s): W. Weiss
Enr: $9 \quad$ Resp: $12 \quad$ Retake: 88\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 8 | 25 | 33 | 25 | 8 | 5.0 |
| Explains | 0 | 0 | 0 | 16 | 41 | 25 | 16 | 5.4 |
| Communicates | 0 | 0 | 0 | 0 | 25 | 25 | 50 | 6.2 |
| Teaching | 0 | 0 | 0 | 25 | 16 | 41 | 16 | 5.5 |
| Workload | 0 | 0 | 0 | 70 | 10 | 20 | 0 | 4.5 |
| Difficulty | 0 | 0 | 0 | 50 | 30 | 20 | 0 | 4.7 |
| Learn Exp | 0 | 0 | 0 | 30 | 30 | 20 | 20 | 5.6 |

## MAT 425H1F Differential Topology

Instructor(s): A. Khovanskii
Enr: $8 \quad$ Resp: $5 \quad$ Retake: 100\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 40 | 20 | 20 | 20 | 0 | 4.2 |
| Explains | 0 | 0 | 20 | 0 | 60 | 0 | 20 | 5.0 |
| Communicates | 0 | 0 | 0 | 0 | 20 | 0 | 80 | 6.6 |
| Teaching | 0 | 0 | 0 | 40 | 0 | 20 | 40 | 5.6 |
| Workload | 0 | 0 | 0 | 40 | 40 | 20 | 0 | 4.8 |
| Difficulty | 0 | 0 | 0 | 0 | 40 | 40 | 20 | 5.8 |
| Learn Exp | 0 | 0 | 0 | 40 | 0 | 20 | 40 | 5.6 |


| Explains | 0 | 0 | 4 | 13 | 30 | 26 | 26 | 5.6 |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | :--- | :--- |
| Communicates | 0 | 0 | 0 | 8 | 8 | 52 | 30 | 6.0 |
| Teaching | 0 | 0 | 0 | 8 | 13 | 30 | 47 | 6.2 |
| Workload | 0 | 0 | 0 | 36 | 15 | 36 | 10 | 5.2 |
| Difficulty | 0 | 0 | 0 | 25 | 35 | 10 | 30 | 5.4 |
| Learn Exp | 0 | 0 | 0 | 17 | 35 | 17 | 29 | 5.9 |

Most thought that Bierstone was a very good instructor. Bierstone did a wonderful job at developing intuition and communicating difficult concepts with great clarity.

Many students remarked at the level of difficulty of the subject matter, noting that they felt unprepared at times. The problem sets and midterm exam were said to be very challenging, but fairly graded and conducive to the overall learning experience.

MAT 457Y1Y Real Analysis II
Instructor(s): A. del Junco
Enr: 30
Resp: 22
Retake: 66\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 9 | 18 | 31 | 22 | 13 | 4 | 4.3 |
| Explains | 0 | 0 | 13 | 27 | 22 | 31 | 4 | 4.9 |
| Communicates | 0 | 0 | 18 | 36 | 13 | 27 | 4 | 4.6 |
| Teaching | 0 | 0 | 9 | 18 | 36 | 27 | 9 | 5.1 |
| Workload | 0 | 0 | 0 | 20 | 35 | 25 | 20 | 5.4 |
| Difficulty | 0 | 0 | 0 | 14 | 28 | 33 | 23 | 5.7 |
| Learn Exp | 0 | 0 | 0 | 31 | 25 | 31 | 12 | 5.2 |

A few students commented that lectures focussed too much on details and not enough on the big picture and motivation for concepts. The instructor was approachable and supportive of students concerns.

Students found the course interesting yet difficult. Several felt that problem sets were too long. There were some concerns about the speed and fairness of the marking.

## MAT 477Y1Y Seminar in Mathematics

Instructor(s): R. McCann
Enr: 10
Resp: 9
Retake: 28\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 0 | 0 | 37 | 37 | 25 | 5.9 |
| Explains | 0 | 0 | 0 | 0 | 33 | 33 | 33 | 6.0 |
| Communicates | 0 | 0 | 0 | 0 | 22 | 33 | 44 | 6.2 |
| Teaching | 0 | 0 | 0 | 0 | 33 | 44 | 22 | 5.8 |
| Workload | 12 | 0 | 25 | 37 | 0 | 12 | 12 | 5.3 |
| Difficulty | 0 | 0 | 14 | 28 | 14 | 0 | 42 | 5.3 |
| Learn Exp | 0 | 0 | 12 | 12 | 25 | 37 | 12 | 5.2 |

MAT 454H1S Complex Analysis II
Instructor(s): E. Bierstone
Enr: 32 Resp: 23
Retake: 71\%

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mean |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Presents | 0 | 0 | 4 | 0 | 13 | 26 | 56 | 6.3 |



