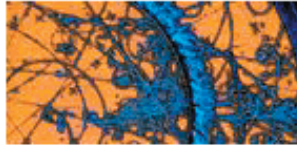


Physics and Astronomy Student Union



Introduction

The Physics & Astronomy Students' Union (PASU) represents all undergraduate students enrolled in PHY and AST courses. To find out more about PASU, drop by their office at MP 217 or visit their website <http://pasu.sa.utoronto.ca>

Editor

AST 101H1F The Sun and Its Neighbours

Instructor(s): R. Jayawardhana; B. Netterfield

Enr: 1012	Resp: 119							Retake: 65%
	1	2	3	4	5	6	7	Mean
<u>Jayawardhana:</u>								
Presents	2	4	11	14	23	32	11	5.0
Explains	2	2	13	17	26	24	13	4.9
Communicates	1	3	6	22	20	23	22	5.2
Teaching	0	5	7	23	22	26	13	5.0
<u>Netterfield:</u>								
Presents	2	1	3	11	24	25	30	5.5
Explains	2	0	6	10	23	29	28	5.5
Communicates	1	0	2	10	16	18	50	6.0
Teaching	0	1	4	8	22	30	30	5.7
<u>Course:</u>								
Workload	2	6	13	46	19	7	4	4.2
Difficulty	2	6	6	52	14	13	4	4.3
Learn Exp	3	3	3	43	20	16	9	4.6

Some students thought that Jayawardhana was somewhat monotone in his delivery of the lecture material. Many students commented that this may have been due to the large class in Con Hall.

Netterfield seemed enthusiastic about the material but still some could not clearly hear the lectures in the "cheap seats" in Con Hall.

Students complained about the method of returning assignments by just dumping them in a big pile and telling students to find their work. There was also complaints about the lack of support and poor attitude of the TAs. A few students felt that this course was difficult for non-science students.

AST 121H1S Origin and Evolution of the Universe

Instructor(s): H. Yee

Enr: 94	Resp: 38							Retake: 71%
	1	2	3	4	5	6	7	Mean
Presents	0	0	7	21	23	39	7	5.2
Explains	2	7	13	21	18	23	13	4.7
Communicates	0	0	2	29	31	15	23	5.3
Teaching	0	5	2	24	16	48	2	5.1
Workload	0	0	23	52	13	5	5	4.2
Difficulty	0	2	5	39	26	13	13	4.8
Learn Exp	0	0	6	31	37	13	10	4.9

Some students had problems with this course and suggested prior knowledge in math and physics. It was also suggested that more explanation of the numerical examples was needed.

AST 201H1S Stars and Galaxies

Instructor(s): R. Jayawardhana; B. Netterfield

Enr: 1081	Resp: 169							Retake: 81%
	1	2	3	4	5	6	7	Mean
<u>Jayawardhana:</u>								
Presents	1	0	4	11	31	36	14	5.4
Explains	1	1	6	20	24	32	13	5.1
Communicates	1	0	6	22	26	23	18	5.2
Teaching	0	2	4	12	29	32	18	5.4
<u>Netterfield:</u>								
Presents	0	0	1	4	26	38	28	5.9
Explains	0	0	2	4	24	39	28	5.8
Communicates	0	0	0	4	8	23	62	6.4
Teaching	0	0	0	4	17	42	35	6.1
<u>Course:</u>								
Workload	1	6	13	63	8	2	4	4.0
Difficulty	0	3	16	58	14	2	4	4.1
Learn Exp	2	0	4	28	25	16	23	5.2

Most students liked both instructors calling them enthusiastic and caring. They also enjoyed the material.

AST 210H1F Great Moments in Astronomy

Instructor(s): S. Mochnacki

Enr: 314	Resp: 83							Retake: 52%
	1	2	3	4	5	6	7	Mean
Presents	2	5	8	27	35	16	3	4.5
Explains	1	2	13	28	39	12	2	4.5
Communicates	1	3	4	28	25	28	7	4.9
Teaching	1	4	6	29	41	13	2	4.6
Workload	0	6	15	59	14	2	1	3.9
Difficulty	0	4	14	54	16	9	1	4.2
Learn Exp	3	7	8	61	10	8	0	3.9

The instructor gave clear presentations and lectures but there were too many slides in a given lecture. Students wished lecture slides had been posted earlier to allow them to follow better in class.

Mochnacki was very enthusiastic about the material but appeared to try to cover too much in this course. Students felt online quizzes were too vague in their questions and that class tests were too long and questions were not always clear in what they were asking.

Overall, the course was thought to be very interesting, but a little bit difficult for a distribution credit course.

AST 221H1F Solar System and Stellar Astronomy

Instructor(s): M. van Kerkwijk

Enr: 23	Resp: 13							Retake: 84%
	1	2	3	4	5	6	7	Mean
Presents	0	0	23	7	30	30	7	4.9
Explains	0	0	30	7	30	23	7	4.7
Communicates	0	0	0	0	7	30	61	6.5
Teaching	0	0	0	30	23	38	7	5.2
Workload	0	0	0	53	30	7	7	4.7
Difficulty	0	0	0	53	7	23	15	5.0
Learn Exp	0	0	8	33	33	16	8	4.8

Tutorials discussed new material, often more difficult than the lectures and were found to be somewhat unhelpful. The TAs often appeared unapproachable for help with assignments. Problem sets were found to be quite challenging and the textbook was found to be insufficient for understanding of the required material.

The instructor was very enthusiastic and relatively organized. Overall, too much material was covered in too little detail and expectations for assignments were unclear. Despite some complaints, students enjoyed the lectures due to the enthusiasm and knowledge of the instructor.

AST 222H1S Galactic and Extragalactic Astronomy

Instructor(s): S. Mochnacki

Enr: 15	Resp: 11							Retake: 80%
	1	2	3	4	5	6	7	Mean
Presents	9	0	18	9	55	9	0	4.3
Explains	9	0	27	9	27	27	0	4.3
Communicates	0	0	0	18	9	45	27	5.8
Teaching	0	9	9	18	18	45	0	4.8
Workload	0	0	0	45	27	27	0	4.8
Difficulty	0	0	0	27	36	27	9	5.2
Learn Exp	0	0	30	20	10	40	0	4.6

AST 251H1S Life on Other Worlds

Instructor(s): S. Rucinski

Enr: 312	Resp: 81							Retake: 93%
	1	2	3	4	5	6	7	Mean
Presents	0	0	1	3	31	44	18	5.8
Explains	0	0	2	15	25	41	15	5.5
Communicates	0	0	1	18	24	31	24	5.6
Teaching	0	1	1	8	26	51	10	5.6
Workload	6	13	20	48	10	1	0	3.5
Difficulty	6	15	21	46	8	1	0	3.4
Learn Exp	0	0	3	27	36	22	10	5.1

Most students found the material very interesting. Rucinski was very enthusiastic, however, some students complained that he said he would not reply to emails.

AST 320H1S Introduction to Astrophysics

Instructor(s): M. van Kerkwijk

Enr: 13	Resp: 8							Retake: 87%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	14	28	42	14	5.6
Explains	0	0	0	0	37	37	25	5.9
Communicates	0	0	0	0	25	25	50	6.2
Teaching	0	0	0	0	12	62	25	6.1
Workload	0	0	0	0	50	37	12	5.6
Difficulty	0	0	0	0	75	25	0	5.2
Learn Exp	0	0	0	25	25	37	12	5.4

AST 420H1F Topical Astrophysics

Instructor(s): S. Rucinski

Enr: 12	Resp: 12							Retake: 30%
	1	2	3	4	5	6	7	Mean
Presents	0	10	0	40	20	10	20	4.8
Explains	0	9	9	45	9	9	18	4.5
Communicates	8	0	8	16	50	8	8	4.6
Teaching	0	16	0	8	41	16	16	4.9
Workload	0	0	8	58	33	0	0	4.2
Difficulty	0	9	9	63	18	0	0	3.9
Learn Exp	30	20	20	10	0	10	10	3.0

The course description in the calendar was misleading. The course was basically on telescopes and instrumentation. Many students found the material to be uninteresting and felt that not only did they learn nothing, but that they did all the work as the instructor had students give presentations for the majority of the course.

Assignments were also felt to yield no valuable learning experience other than how to look up information on the internet.

AST 425H1Y Research Topic in Astronomy

Instructor(s): S. Mochnacki

Enr: 8	Resp: 6							Retake: 100%
	1	2	3	4	5	6	7	Mean
Presents	0	25	0	50	25	0	0	3.8
Explains	0	25	25	25	25	0	0	3.5
Communicates	0	0	20	40	20	0	0	4.4

Teaching	0	16	33	33	0	16	0	3.7
Workload	0	0	0	25	75	0	0	4.8
Difficulty	0	0	25	0	75	0	0	4.5
Learn Exp	0	0	0	0	0	0	100	7.0

PHY 100H1F The Magic of Physics

Instructor(s): A. Steinberg

Enr: 163	Resp: 58							Retake: 54%
	1	2	3	4	5	6	7	Mean
Presents	3	3	8	21	21	31	10	4.9
Explains	1	1	8	8	24	41	13	5.3
Communicates	1	0	3	6	12	41	34	5.9
Teaching	3	0	1	10	22	37	24	5.6
Workload	0	1	7	60	16	10	3	4.4
Difficulty	0	0	14	26	33	17	7	4.8
Learn Exp	4	6	2	26	26	28	6	4.7

Students thought Steinberg was enthusiastic and knowledgeable, although a few felt his blackboard notes were unclear. Many students felt the material was interesting and fun. However, some complained the workload was more and harder than they had expected. They also commented that some prior math knowledge was needed, and that the course should have had a clearer outline.

PHY 101H1S Patterns from Chaos

Instructor(s): S. Morris

Enr: 125	Resp: 53							Retake: 69%
	1	2	3	4	5	6	7	Mean
Presents	0	1	1	9	32	25	19	5.3
Explains	0	1	3	15	19	28	30	5.6
Communicates	0	0	0	1	9	29	61	6.5
Teaching	0	0	5	3	22	33	33	5.9
Workload	0	2	12	58	14	10	4	4.3
Difficulty	1	0	13	52	23	5	1	4.2
Learn Exp	2	4	0	34	23	11	18	4.9

Most students felt that Morris was very good and they enjoyed his enthusiasm, although a few felt he could have been a little more organized.

PHY 110Y1Y Basic Physics

Instructor(s): R. Logan

Enr: 91	Resp: 42							Retake: 48%
	1	2	3	4	5	6	7	Mean
Presents	2	4	31	29	14	2	14	4.1
Explains	2	4	29	34	7	7	14	4.2
Communicates	0	2	2	21	19	24	29	5.5
Teaching	2	0	14	31	14	19	17	4.8
Workload	0	4	17	58	14	2	2	4.0
Difficulty	2	7	14	51	12	9	2	4.0
Learn Exp	0	0	15	54	12	15	3	4.4

Some students felt that Logan did not relay the important concepts effectively to the class. Logan's sense of humour was appreciated by many. The tutorials were helpful, and the laboratory component was very useful.

Instructor(s): R. Logan

Enr: 175	Resp: 65							Retake: 54%
	1	2	3	4	5	6	7	Mean
Presents	1	10	10	28	25	15	7	4.4
Explains	0	0	15	29	20	20	14	4.9
Communicates	0	0	4	1	21	25	46	6.1
Teaching	0	3	7	12	23	34	17	5.3
Workload	1	4	9	68	7	7	0	4.0
Difficulty	1	1	4	71	9	7	3	4.2
Learn Exp	4	4	4	36	26	20	4	4.6

Students felt the labs did not reflect the lecture material and were not well-organized. They also thought the lectures were somewhat disorga-

nized and some students complained that Logan was unclear, although many liked him a lot.

Instructor(s): D. James; D. Jones

Enr: 145	Resp: 56							Retake: 35%
	1	2	3	4	5	6	7	Mean
<u>James:</u>								
Presents	0	0	0	5	20	33	40	6.1
Explains	0	0	1	1	21	39	40	6.1
Communicates	0	0	0	3	16	21	58	6.3
Teaching	0	0	0	1	21	37	39	6.1
<u>Jones:</u>								
Presents	1	0	1	5	20	32	38	5.9
Explains	1	0	1	5	23	38	29	5.8
Communicates	1	0	0	9	22	28	37	5.9
Teaching	1	0	0	7	20	45	25	5.8
<u>Course:</u>								
Workload	0	8	16	57	10	5	1	3.9
Difficulty	1	5	12	51	19	5	3	4.1
Learn Exp	0	7	5	50	23	17	0	4.5

James was a very enthusiastic instructor. Students found his lectures engaging and humorous.

Jones was very organized and enthusiastic about the material. His notes were very comprehensive and organized. Students found both instructors very passionate.

Instructor(s): D. James; D. Jones

Enr: 80	Resp: 20							Retake: 60%
	1	2	3	4	5	6	7	Mean
<u>James:</u>								
Presents	0	0	0	10	25	50	15	5.7
Explains	0	0	0	5	40	20	35	5.8
Communicates	0	0	0	0	10	45	45	6.3
Teaching	0	0	0	0	30	50	20	5.9
<u>Jones:</u>								
Presents	0	0	0	10	45	25	20	5.6
Explains	0	0	0	15	45	20	20	5.4
Communicates	0	0	5	5	25	40	25	5.8
Teaching	0	0	0	25	15	45	15	5.5
<u>Course:</u>								
Workload	0	0	0	45	35	15	5	4.8
Difficulty	0	0	0	55	30	15	0	4.6
Learn Exp	0	0	6	43	37	6	6	4.6

Students did not like the labs but did enjoy the enthusiasm of the instructors.

PHY 138Y1Y Physics for the Life Sciences I

Instructor(s): J. Harlow

Enr: 792	Resp: 436							Retake: 39%
	1	2	3	4	5	6	7	Mean
Presents	0	0	1	9	26	42	20	5.7
Explains	0	0	2	8	25	39	22	5.7
Communicates	0	0	1	3	10	34	50	6.3
Teaching	0	0	1	7	22	40	27	5.8
Workload	0	0	1	25	31	28	13	5.2
Difficulty	0	0	1	15	28	35	18	5.5
Learn Exp	3	3	8	37	29	13	4	4.5

Harlow was very enthusiastic about the material. Students found him easy to understand and liked his teaching style. Furthermore, Harlow was approachable.

Some students felt that the labs were not very interesting.

Instructor(s): A. Key; K. Strong

Enr: 646	Resp: 290							Retake: 37%
	1	2	3	4	5	6	7	Mean
<u>Key:</u>								
Presents	2	3	8	23	26	27	9	4.9
Explains	3	2	11	21	28	20	12	4.8
Communicates	0	2	3	13	27	29	22	5.4
Teaching	1	3	7	18	25	24	15	5.1
<u>Strong:</u>								
Presents	1	2	8	16	33	32	6	5.0
Explains	1	2	4	21	37	23	9	5.0
Communicates	0	1	4	21	32	25	11	5.0
Teaching	1	1	6	20	37	25	8	5.0
<u>Course:</u>								
Workload	0	0	2	16	36	26	17	5.4
Difficulty	0	0	0	12	28	32	23	5.6
Learn Exp	3	3	10	37	27	11	5	4.4

Students found Key enthusiastic and interesting. They also found Key's supplementary notes difficult to follow.

Overall, students thought Strong was good, however, a few felt that Strong spoke too quickly and was a bit unorganized.

PHY 140Y1Y Foundations of Physics

Instructor(s): S. Stanley

Enr: 114	Resp: 74							Retake: 91%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	6	13	44	35	6.1
Explains	0	0	2	4	12	39	41	6.1
Communicates	0	0	0	0	6	25	67	6.6
Teaching	0	0	0	0	5	37	56	6.5
Workload	0	0	1	27	32	27	10	5.2
Difficulty	0	0	2	24	35	31	6	5.1
Learn Exp	0	0	0	9	30	41	19	5.7

Students thought Stanley was excellent and gave clear lectures. They were very impressed with her availability beyond office hours. However, some students were unimpressed with the lab portion of the course.

Some described the material as difficult but more found it interesting. Those who felt the material was hard felt this mainly because of the mathematics involved.

Instructor(s): S. Julian

Enr: 103	Resp: 56							Retake: 90%
	1	2	3	4	5	6	7	Mean
Presents	0	0	1	5	9	25	58	6.3
Explains	0	1	5	5	23	36	27	5.7
Communicates	0	0	0	3	9	30	56	6.4
Teaching	0	0	0	1	16	38	43	6.2
Workload	0	1	1	51	17	21	5	4.7
Difficulty	0	0	5	33	37	21	1	4.8
Learn Exp	0	0	0	14	16	42	26	5.8

Overall, students felt the instructor was great. They commented on his sense of humour and approachability. Many enjoyed his "history bits".

PHY 189H1S Physics at the Cutting Edge

Instructor(s): D. Miller

Enr: 18	Resp: 16							Retake: 93%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	18	31	37	12	5.4
Explains	0	0	0	6	12	37	43	6.2
Communicates	0	0	0	0	18	18	62	6.4
Teaching	0	0	0	0	0	43	56	6.6
Workload	0	12	18	50	18	0	0	3.8
Difficulty	0	0	6	50	43	0	0	4.4
Learn Exp	0	0	0	0	25	66	8	5.8

190 PHYSICS & ASTRONOMY

Students found the topics interesting and stimulating. They felt they learned a lot, and Miller was excellent. One student said it was a worthwhile course for anyone considering physics as a career.

PHY 205H1F The Physics of Everyday Life

Instructor(s): J. Harlow

	Enr: 185							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	4	15	34	44	6.1
Explains	0	0	0	2	12	29	54	6.4
Communicates	0	0	0	0	1	9	88	6.9
Teaching	0	0	0	2	4	33	58	6.5
Workload	5	9	19	55	7	0	0	3.5
Difficulty	9	10	23	52	3	3	0	3.4
Learn Exp	1	1	1	14	22	31	27	5.6

Almost all the students thought this was a great and fun course with interesting and useful material. A very few students complained about the relative weighting of the assignments, but others thought the tests were fair.

Harlow was regarded very highly. Students felt the use of demonstrations helped their understanding. Harlow was described as organized, approachable, enthusiastic and funny.

PHY 238Y1Y Physics for the Life Sciences II

Instructor(s): P. Kushner; R. Serbanescu

	Enr: 20							Mean
	1	2	3	4	5	6	7	
<u>Kushner:</u>								
Presents	0	0	0	9	27	36	27	5.8
Explains	0	0	0	9	45	18	27	5.6
Communicates	0	0	0	9	27	18	45	6.0
Teaching	0	0	0	9	36	27	27	5.7
<u>Serbanescu:</u>								
Presents	0	0	0	0	18	54	27	6.1
Explains	0	0	0	9	18	45	27	5.9
Communicates	0	0	0	9	27	27	36	5.9
Teaching	0	0	0	9	27	27	36	5.9
<u>Course:</u>								
Workload	0	0	0	90	9	0	0	4.1
Difficulty	0	0	18	54	18	9	0	4.2
Learn Exp	0	0	0	12	37	12	37	5.8

PHY 251H1S Electricity and Magnetism

Instructor(s): P. Krieger

	Enr: 75							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	2	50	33	13	5.6
Explains	0	0	0	14	37	34	14	5.5
Communicates	0	0	0	22	45	20	11	5.2
Teaching	0	0	0	5	37	48	8	5.6
Workload	0	0	8	52	38	0	0	4.3
Difficulty	0	0	5	38	38	16	0	4.7
Learn Exp	0	0	3	42	26	15	11	4.9

Students found the course well-organized and Krieger was helpful. Some students thought that the lectures followed the textbook too closely.

PHY 252H1S Thermal Physics

Instructor(s): E. Poppitz

	Enr: 62							Mean
	1	2	3	4	5	6	7	
Presents	0	0	0	3	22	51	22	5.9
Explains	0	0	0	3	25	55	14	5.8
Communicates	0	0	0	0	3	48	48	6.4
Teaching	0	0	0	0	14	62	22	6.1
Workload	0	0	0	68	32	0	0	4.3
Difficulty	0	0	3	46	30	19	0	4.7

Learn Exp 0 0 0 27 31 22 18 5.3

Students felt Poppitz was very enthusiastic and offered a good mix of theoretical and practical concepts. The text was very good, and the instructor followed it closely, which some students felt was good, while others disliked it. A few students complained the test was very different from the assignments.

PHY 255H1F Oscillations and Waves

Instructor(s): R. Marjoribanks

	Enr: 82							Mean
	1	2	3	4	5	6	7	
Presents	5	0	12	28	30	15	7	4.6
Explains	0	0	10	22	12	35	20	5.3
Communicates	0	0	2	7	30	35	25	5.7
Teaching	0	2	10	30	37	15	5	4.7
Workload	0	0	5	52	27	12	2	4.6
Difficulty	0	0	5	55	27	12	0	4.5
Learn Exp	0	6	3	51	21	12	6	4.5

Students' feelings were mixed about the instructor. Most felt he gave a very good intuitive understanding of the material, while a few felt he was disorganized and missed too many lectures. There was agreement that assignments (especially the test) took too long to mark.

Some students felt problem sets were difficult, while only a select number of questions were marked.

PHY 256H1F Introduction to Quantum Physics

Instructor(s): P. Savard

	Enr: 83							Mean
	1	2	3	4	5	6	7	
Presents	0	3	1	13	23	41	15	5.4
Explains	0	3	5	19	37	27	5	5.0
Communicates	1	1	0	7	17	41	29	5.8
Teaching	0	1	1	9	21	43	21	5.7
Workload	0	0	0	37	29	25	7	5.0
Difficulty	0	0	0	11	29	37	21	5.7
Learn Exp	0	0	11	19	26	33	9	5.1

Most students felt Savard was organized, approachable and enthusiastic, however, some thought Savard did not communicate well and some lectures were too dense. Students complained about the difficulty of the material but thought the problem sets and tests were fair. Also, some thought tutorials were extensions of the lectures, and the math was not taught in an organized manner.

PHY 305H1F Electronics Lab I

Instructor(s): B. Milkereit

	Enr: 18							Mean
	1	2	3	4	5	6	7	
Presents	0	0	7	21	57	14	0	4.8
Explains	0	0	14	28	42	14	0	4.6
Communicates	0	0	7	21	57	14	0	4.8
Teaching	0	0	0	14	42	35	7	5.4
Workload	0	0	0	7	30	15	46	6.0
Difficulty	0	0	7	38	23	30	0	4.8
Learn Exp	0	0	0	18	27	18	36	5.7

PHY 307H1F Introduction to Computational Physics

Instructor(s): B. Holdom

	Enr: 22							Mean
	1	2	3	4	5	6	7	
Presents	0	0	5	11	27	50	5	5.4
Explains	0	0	0	22	33	22	22	5.4
Communicates	0	0	0	27	22	44	5	5.3
Teaching	0	0	5	11	22	50	11	5.5
Workload	5	5	27	50	5	5	0	3.6
Difficulty	0	0	25	56	6	12	0	4.1

Learn Exp	0	0	7	14	35	35	7	5.2
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PHY 308H1S Time Series Analysis

Instructor(s): R. Bailey

Enr: 11	Resp: 7						Retake: 71%	
	1	2	3	4	5	6	7	Mean
Presents	0	16	16	16	33	16	0	4.2
Explains	0	0	16	16	50	16	0	4.7
Communicates	0	0	0	14	28	28	28	5.7
Teaching	0	0	0	16	66	16	0	5.0
Workload	0	0	0	28	28	28	14	5.3
Difficulty	0	0	0	42	28	14	14	5.0
Learn Exp	0	0	0	50	33	16	0	4.7

PHY 315H1S Radiation in Planetary Atmospheres

Instructor(s): K. Strong

Enr: 12	Resp: 11						Retake: 90%	
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	9	54	27	9	5.4
Explains	0	0	10	27	45	9	0	4.5
Communicates	0	0	0	18	18	54	9	5.5
Teaching	0	0	0	9	36	45	9	5.5
Workload	0	0	0	70	10	20	0	4.5
Difficulty	0	0	0	80	0	20	0	4.4
Learn Exp	0	0	0	22	55	11	11	5.1

Students wanted more sample problems to assist them with the mid-term. Strong was enthusiastic and well-liked by the students.

PHY 346H1S Intermediate Biophysics

Instructor(s): R. Serbanescu

Enr: 22	Resp: 16						Retake: 64%	
	1	2	3	4	5	6	7	Mean
Presents	0	6	0	12	50	31	0	5.0
Explains	0	0	13	13	33	33	6	5.1
Communicates	0	0	0	12	43	25	18	5.5
Teaching	0	0	6	6	25	56	6	6.5
Workload	0	0	20	53	13	13	0	4.2
Difficulty	0	6	6	66	6	6	6	4.2
Learn Exp	0	0	40	40	10	0	10	4.0

PHY 351H1S Classical Mechanics

Instructor(s): P. Kushner

Enr: 61	Resp: 32						Retake: 60%	
	1	2	3	4	5	6	7	Mean
Presents	0	3	6	22	29	22	16	5.1
Explains	3	6	9	29	29	19	3	4.5
Communicates	0	0	3	12	32	35	16	5.5
Teaching	0	0	9	12	38	22	16	5.2
Workload	0	0	0	20	33	20	26	5.5
Difficulty	0	0	0	13	26	23	36	5.8
Learn Exp	0	3	7	37	25	22	3	4.7

Students felt that overall, Kushner and the course were good, but too much was crammed into the end of term. The problem sets were too long for what they were worth. The tutorials did not help students in learning how to solve the problem sets.

PHY 353H1S Electromagnetic Waves

Instructor(s): D. Jones

Enr: 38	Resp: 16						Retake: 69%	
	1	2	3	4	5	6	7	Mean
Presents	0	0	6	6	18	50	18	5.7
Explains	0	0	0	18	12	50	18	5.7
Communicates	0	0	0	0	12	25	62	6.5
Teaching	0	0	0	12	12	37	37	6.0
Workload	0	0	0	33	26	26	13	5.2

Difficulty	0	0	6	46	6	20	20	5.0
Learn Exp	0	0	0	27	18	45	9	5.4

PHY 355H1F Quantum Mechanics I

Instructor(s): J. Sipe

Enr: 104	Resp: 67						Retake: 80%	
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	4	12	37	45	6.2
Explains	0	1	6	7	24	33	26	5.6
Communicates	0	0	0	0	4	16	78	6.7
Teaching	0	0	1	1	15	32	49	6.3
Workload	0	1	9	29	30	20	9	4.9
Difficulty	0	0	1	15	21	28	32	5.8
Learn Exp	0	1	1	13	31	23	28	5.6

Most students were impressed by Sipe and found him entertaining, engaging, and always available. However, they felt the course was difficult but interesting.

Students would have liked some assignments to alleviate the pressure of the tests, and many felt more examples were needed. Also, students wanted a book that followed the lectures more closely.

PHY 355H1S Quantum Mechanics I

Instructor(s): P. Savaria

Enr: 22	Resp: 6						Retake: 60%	
	1	2	3	4	5	6	7	Mean
Presents	0	16	0	0	0	50	33	5.7
Explains	16	0	0	0	33	33	16	5.0
Communicates	0	0	16	0	0	50	33	5.8
Teaching	0	16	0	0	0	50	33	5.7
Workload	0	0	16	33	16	16	16	4.8
Difficulty	0	0	0	16	33	33	16	5.5
Learn Exp	0	20	0	0	20	40	20	5.2

PHY 357H1S Nuclear and Particle Physics

Instructor(s): R. Orr

Enr: 27	Resp: 17						Retake: 82%	
	1	2	3	4	5	6	7	Mean
Presents	0	0	5	23	29	35	5	5.1
Explains	0	0	0	23	29	35	11	5.4
Communicates	0	0	0	5	5	35	52	6.4
Teaching	0	0	0	0	23	58	17	5.9
Workload	0	0	23	47	11	17	0	4.2
Difficulty	5	5	11	47	17	5	5	4.1
Learn Exp	0	8	0	41	8	33	8	4.8

PHY 358H1S Atom, Molecules and Solids

Instructor(s): A. Griffin

Enr: 26	Resp: 18						Retake: 77%	
	1	2	3	4	5	6	7	Mean
Presents	0	0	11	44	16	22	5	4.7
Explains	0	0	0	16	38	44	0	5.3
Communicates	0	0	0	0	16	33	50	6.3
Teaching	0	0	0	11	27	50	11	5.6
Workload	0	0	6	56	31	6	0	4.4
Difficulty	0	0	11	41	29	17	0	4.5
Learn Exp	0	0	6	18	50	18	6	5.0

PHY 359H1S Physics of the Earth

Instructor(s): J. Arkani-Hamed

Enr: 18	Resp: 13						Retake: 30%	
	1	2	3	4	5	6	7	Mean
Presents	0	0	23	30	23	7	15	4.6
Explains	7	7	15	30	23	7	7	4.1
Communicates	0	0	0	7	23	15	53	6.2
Teaching	0	0	23	15	15	30	15	5.0
Workload	0	0	0	38	23	30	7	5.1

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Difficulty	0	0	0	23	38	23	15	5.3
Learn Exp	0	0	33	25	33	8	0	4.2

The material presented was felt to have been somewhat disorganized, a textbook would have helped. The instructor was helpful and enthusiastic.

PHY 407H1F Introduction to Computational Physics

Instructor(s): B. Holdom

Enr: 8	Resp: 7							Retake: 50%
	1	2	3	4	5	6	7	Mean
Presents	0	0	14	28	28	28	0	4.7
Explains	0	0	11	42	0	42	0	4.7
Communicates	0	0	28	0	42	28	0	4.7
Teaching	0	14	0	42	14	28	0	4.4
Workload	0	0	28	48	14	0	14	4.3
Difficulty	0	0	0	57	42	0	0	4.4
Learn Exp	0	0	20	20	40	20	0	4.6

PHY 409H1S Quantum Mechanics Using Computer Algebra

Instructor(s): P. Savaria

Enr: 9	Resp: 8							Retake: 83%
	1	2	3	4	5	6	7	Mean
Presents	0	0	12	12	62	12	0	4.8
Explains	0	0	0	25	62	12	0	4.9
Communicates	0	0	0	12	50	25	12	5.4
Teaching	0	0	0	25	25	37	12	5.4
Workload	0	0	0	0	50	50	0	5.5
Difficulty	0	0	12	75	0	12	0	4.1
Learn Exp	0	0	0	25	25	50	0	5.2

PHY 459H1S Macroscopic Physics

Instructor(s): S. Morris

Enr: 21	Resp: 8							Retake: 85%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	50	37	12	5.6
Explains	0	0	0	0	25	50	25	6.0
Communicates	0	0	0	0	12	25	62	6.5
Teaching	0	0	0	0	0	62	37	6.4
Workload	0	0	12	50	12	25	0	4.5
Difficulty	0	0	12	50	12	25	0	4.5
Learn Exp	0	0	0	16	16	50	16	5.7

PHY 483H1F Relativity Theory I

Instructor(s): C. Dyer

Enr: 37	Resp: 24							Retake: 87%
	1	2	3	4	5	6	7	Mean
Presents	0	0	13	26	39	17	4	4.7
Explains	4	4	8	21	34	13	13	4.7
Communicates	0	0	0	4	13	43	39	6.2
Teaching	0	0	0	8	25	41	25	5.8
Workload	0	8	4	34	21	13	17	4.8
Difficulty	0	0	0	4	21	17	56	6.3
Learn Exp	0	0	4	4	17	43	30	5.9

Many students felt that both the course and Dyer were good. The material was difficult, but Dyer was very helpful in answering questions. Some felt that the notes on the board needed to be clearer and more detailed, with more examples provided. Others felt that a better textbook should have been used for the class. Most students found the course to be very interesting and enjoyable, despite the difficulty of the subject.

PHY 485H1F Modern Optics

Instructor(s): R. Marjoribanks

Enr: 11	Resp: 8							Retake: 62%
	1	2	3	4	5	6	7	Mean
Presents	0	12	37	25	0	12	12	4.0
Explains	0	12	12	50	12	0	12	4.1

Communicates	0	0	0	12	37	25	25	5.6
Teaching	0	0	12	50	12	0	25	4.8
Workload	0	0	0	25	62	12	0	4.9
Difficulty	0	0	0	25	37	25	12	5.2
Learn Exp	0	0	0	33	33	33	0	5.0

PHY 489H1S Introduction to High Energy Physics

Instructor(s): P. Krieger

Enr: 22	Resp: 17							Retake: 100%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	41	52	5	5.6
Explains	0	0	0	5	29	52	11	5.7
Communicates	0	0	0	11	23	29	35	5.9
Teaching	0	0	0	0	23	52	23	6.0
Workload	0	0	0	43	31	25	0	4.8
Difficulty	0	0	0	37	25	37	0	5.0
Learn Exp	0	0	0	18	18	62	0	5.4

Krieger was very good, but the examples had too much algebra for some students.

PHY 491H1S Current Interpretations of Quantum Mechanics

Instructor(s): V. Deyirmenjian

Enr: 11	Resp: 10							Retake: 88%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	11	44	22	22	5.6
Explains	0	0	0	0	33	55	11	5.8
Communicates	0	0	0	0	0	22	77	6.8
Teaching	0	0	0	11	44	22	22	5.6
Workload	0	33	33	33	0	0	0	3.0
Difficulty	0	11	33	33	0	22	0	3.9
Learn Exp	0	0	0	57	14	28	0	4.7

PHY 493H1F Geophysical Imaging I

Instructor(s): B. Milkereit

Enr: 5	Resp: 5							Retake: 80%
	1	2	3	4	5	6	7	Mean
Presents	20	0	0	20	60	0	0	4.0
Explains	20	0	0	40	20	20	0	4.0
Communicates	0	0	0	20	40	20	20	5.4
Teaching	0	20	0	0	40	20	20	5.0
Workload	0	0	0	60	0	40	0	4.8
Difficulty	0	0	0	40	20	40	0	5.0
Learn Exp	20	0	0	20	0	60	0	4.6

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