

170 PHYSICS & ASTRONOMY

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 in MP 217.

Editor

AST 101H1F The Sun and Its Neighbour

Instructor(s): C. Clement

Enr: 153

Resp: 62

Retake: 68%

	1	2	3	4	5	6	7	Mean
Presents	0	0	1	13	30	43	11	5.5
Explains	0	3	6	13	41	23	10	5.1
Communicates	0	0	1	20	32	30	24	5.4
Teaching	0	1	1	6	44	28	16	5.5
Workload	1	3	16	52	13	8	3	4.1
Difficulty	1	0	4	54	27	6	4	4.5
Learn Exp	2	0	8	46	21	14	6	4.6

Many students found this course enjoyable, and found Clement to be an enthusiastic lecturer. Some felt that the material was too difficult for non-science students.

Instructor(s): C. Clement

Enr: 154

Resp: 63

Retake: 70%

	1	2	3	4	5	6	7	Mean
Presents	0	3	3	15	20	33	23	5.5
Explains	0	3	1	22	36	25	11	5.1
Communicates	0	1	3	16	30	30	17	5.4
Teaching	1	0	1	12	25	43	14	5.5
Workload	4	4	12	66	9	0	1	3.8
Difficulty	3	4	11	61	16	0	3	4.0
Learn Exp	2	0	8	44	19	23	2	4.6

Most students expressed their satisfaction and enjoyment of this course. Clement was thought to be a knowledgeable and approachable lecturer.

AST 101H1S The Sun and Its Neighbour

Instructor(s): C. Clement

Enr: 241

Resp: 53

Retake: 74%

	1	2	3	4	5	6	7	Mean
Presents	2	0	4	20	34	22	18	5.2
Explains	3	3	7	15	37	21	9	4.8
Communicates	0	1	3	11	37	31	13	5.3
Teaching	0	5	0	17	433	21	11	5.1
Workload	5	5	25	53	3	1	3	3.7
Difficulty	5	5	17	53	7	5	3	3.8
Learn Exp	0	0	11	52	22	11	2	4.4

Most students found Clement to be a well-organized lecturer and liked the slides shown in class. Many found her a good at explaining concepts. Most students thought Clement was an enthusiastic lecturer.

Instructor(s): C. Clement

Enr: 184

Resp: 55

Retake: 66%

	1	2	3	4	5	6	7	Mean
Presents	0	1	9	14	33	18	22	5.2
Explains	0	1	5	27	27	27	9	5.0
Communicates	0	1	3	15	33	37	9	5.3
Teaching	0	0	9	9	35	35	11	5.3
Workload	1	0	16	68	11	1	0	3.9
Difficulty	1	1	9	68	11	7	0	4.1
Learn Exp	0	2	14	32	30	20	0	4.5

Most students said that Clement was well-organized, knowledgeable and interested in the material. The course website was found to be use-

ful, especially the posted lecture notes.

AST 121H1S Origin and Evolution of the Universe

instructor(s): R. Abraham

Enr: 119

Resp: 50

Retake: 83%

	1	2	3	4	5	6	7	Mean
Presents	2	0	0	8	24	26	40	5.9
Explains	0	0	4	8	22	28	38	5.9
Communicates	0	0	0	4	6	8	82	6.7
Teaching	0	0	0	8	8	32	52	6.3
Workload	2	10	12	60	12	4	0	3.8
Difficulty	0	0	10	32	30	22	6	4.8
Learn Exp	0	0	5	17	12	33	30	5.7

Students found this course very enjoyable - as one student put it "his class is a pleasure to attend". Abraham was said to be engaging, enthusiastic and very friendly. The main complaint was that the text didn't correspond well enough to what was taught in class.

AST 201H1F Stars and Galaxies

Instructor(s): S.W. Lee

Enr: 142

Resp: 76

Retake: 50%

	1	2	3	4	5	6	7	Mean
Presents	1	2	7	18	14	36	18	5.3
Explains	2	7	11	22	26	23	5	4.5
Communicates	6	9	9	25	23	19	6	4.4
Teaching	1	9	10	22	28	25	2	4.5
Workload	0	0	14	58	21	2	2	4.2
Difficulty	0	1	6	45	26	9	10	4.7
Learn Exp	6	7	10	39	26	9	0	4.0

While students found the course material interesting, many complained that they were bored by the lectures or confused by convoluted explanations of concepts. Mosts thought that the lecturer could have been more enthusiastic, and the tutorials more hands-on.

Instructor(s): S.W. Lee

Enr: 154

Resp: 68

Retake: 44%

	1	2	3	4	5	6	7	Mean
Presents	1	4	4	19	22	34	13	5.1
Explains	4	4	8	26	23	22	8	4.6
Communicates	4	2	11	22	28	19	10	4.7
Teaching	4	6	6	21	30	22	9	4.7
Workload	0	0	9	55	20	12	3	4.4
Difficulty	0	0	1	40	40	9	7	4.8
Learn Exp	6	6	10	32	26	13	4	4.2

Posting lecture slides on the course web page was very helpful to the students. Some complained that the instructor was not so attentive to the students' questions and questioned the usage of slides as the main means of teaching.

But overall, most students thought that the instructor was enthusiastic, helpful and performed well as an instructor.

AST 201H1S Stars and Galaxies

Instructor(s): S.W. Lee

Enr: 180

Resp: 37

Retake: 78%

	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	25	36	38	6.1
Explains	0	0	0	8	27	41	22	5.8
Communicates	0	0	0	5	36	44	13	5.7
Teaching	0	0	2	2	28	51	14	5.7
Workload	0	0	2	58	30	5	2	4.5
Difficulty	0	0	2	60	25	8	2	4.5
Learn Exp	0	0	4	29	29	25	12	5.1

Students enjoyed this course. Most felt the instructor was thorough in explaining the concepts and felt that she was approachable for help.

The course website was very useful.

Instructor(s): S.W. Lee

Enr: 183 Resp: 45 Retake: 69%

	1	2	3	4	5	6	7	Mean
Presents	0	2	0	6	31	29	29	5.8
Explains	0	2	0	18	25	31	22	5.5
Communicates	0	0	6	20	25	39	6	5.2
Teaching	0	0	4	13	23	39	18	5.5
Workload	0	0	4	59	21	11	2	4.5
Difficulty	0	0	9	44	30	13	2	4.6
Learn Exp	0	0	8	35	32	14	8	4.8

Most students found the lectures well-organized and the concepts explained clearly. Some felt the pace of the course was a little too fast, and some explained that the test was marked too hard. However, Lee was felt to have been helpful to those who needed concepts explained further.

AST 210H1F The History and Nature of Astronomical Discovery

Instructor(s): S.W. Lee

Enr: 148 Resp: 57 Retake: 65%

	1	2	3	4	5	6	7	Mean
Presents	0	0	1	15	39	26	16	5.4
Explains	0	1	3	21	46	21	5	5.0
Communicates	0	0	11	30	35	18	3	4.7
Teaching	0	1	7	24	33	26	5	4.9
Workload	3	3	15	60	13	1	0	3.8
Difficulty	1	1	17	60	11	5	0	4.0
Learn Exp	2	4	6	37	27	16	4	4.5

Students appreciated the lecture slides posted on the Internet, although some felt they were gone over too quickly in class. Some thought the text was too confusing.

AST 210H1S The History and Nature of Astronomical Discovery

Instructor(s): I. Shelton

Enr: 157 Resp: 73 Retake: 45%

	1	2	3	4	5	6	7	Mean
Presents	4	0	4	15	40	19	15	5.1
Explains	5	8	12	25	26	16	5	4.3
Communicates	4	4	11	23	30	15	9	4.6
Teaching	5	1	15	35	30	5	5	4.2
Workload	1	2	12	66	8	5	2	4.1
Difficulty	0	2	18	47	14	11	5	4.3
Learn Exp	4	18	13	37	11	8	6	3.8

Some students complained that there was too much knowledge of math and physics expected in a course designed for arts students. The tests were thought to have too many obscure questions. Many complained that the assignments were marked too harshly.

AST 221H1F Solar System and Stellar Astronomy

Instructor(s): S. Mochnacki

Enr: 31 Resp: 26 Retake: 58%

	1	2	3	4	5	6	7	Mean
Presents	4	16	24	36	12	4	4	3.6
Explains	8	16	24	16	32	4	0	3.6
Communicates	0	0	3	11	23	30	30	5.7
Teaching	7	3	19	23	23	23	0	4.2
Workload	0	0	3	69	11	11	3	4.4
Difficulty	0	0	0	42	38	11	7	4.8
Learn Exp	4	12	25	37	12	0	8	3.6

Students generally found Mochnacki an enthusiastic but disorganized lecturer. More examples done in class would have been appreciated. Some felt that too much general astronomy knowledge was assumed. The field trips were enjoyable. Most didn't find the textbook to

be useful.

AST 221H1S Solar System and Stellar Astronomy

Instructor(s): H. Yee

Enr: 27 Resp: 20 Retake: 100%

	1	2	3	4	5	6	7	Mean
Presents	0	0	0	10	25	30	35	5.9
Explains	0	0	0	5	35	35	25	5.8
Communicates	0	0	0	5	15	40	40	6.2
Teaching	0	0	0	5	20	50	25	5.9
Workload	0	0	5	75	20	0	0	4.2
Difficulty	0	0	5	60	35	0	0	4.3
Learn Exp	0	0	0	17	29	41	11	5.5

Most students thought Yee was a very good and enthusiastic teacher and the course was interesting.

Students felt the textbook was poor and too advanced, but Yee's class notes were excellent and well-organized.

AST 251H1F Life on Other Worlds

Instructor(s): I. Shelton

Enr: 153 Resp: 94 Retake: 73%

	1	2	3	4	5	6	7	Mean
Presents	0	1	6	10	31	35	15	5.4
Explains	2	1	7	20	30	31	7	5.0
Communicates	0	0	2	9	29	35	22	5.7
Teaching	0	0	4	17	37	33	7	5.2
Workload	2	2	14	64	13	2	1	4.0
Difficulty	1	3	13	58	17	3	3	4.1
Learn Exp	0	2	14	34	30	13	4	4.5

Most students felt that the lecture notes should have been posted on the Internet before the lectures, not after. All the lectures on powerpoint, so note taking was not practical.

The assignments were also judged to be unfair, as they were not entirely based on the lectures or the readings. To complete the assignments most students had to do extra research.

Contrary to the course description, the possibility of life on other worlds was not discussed much.

AST 251H1S Life on Other Worlds

Instructor(s): I. Shelton

Enr: 168 Resp: 71 Retake: 68%

	1	2	3	4	5	6	7	Mean
Presents	0	1	4	21	28	27	17	5.3
Explains	0	1	12	30	23	23	7	4.8
Communicates	1	0	5	25	23	29	14	5.2
Teaching	0	0	12	26	36	18	5	4.8
Workload	0	7	11	57	14	4	5	4.1
Difficulty	0	1	14	41	17	11	4	4.4
Learn Exp	1	1	5	55	23	10	1	4.4

Many students found that, given the few prerequisites for the course, that while the lecture material was at the correct difficulty level, the assignments were too hard. Some complained that the tests were also too difficult and that they asked obscure questions.

AST 320H1S Introduction to Astrophysics

Instructor(s): M. Van Keskwijk

Enr: 13 Resp: 12 Retake: 90%

	1	2	3	4	5	6	7	Mean
Presents	0	0	16	16	33	25	8	4.9
Explains	0	8	16	16	33	16	8	4.6
Communicates	0	0	0	8	16	66	8	5.8
Teaching	0	0	16	16	25	33	8	5.0
Workload	0	0	0	50	33	16	0	4.7
Difficulty	0	0	0	9	81	0	9	5.1
Learn Exp	0	0	12	25	37	12	12	4.9

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Students' main complaint was that more conceptual ideas needed to be given with the formulae derivations. Some commented, however, that this was improving near the end of the course. The handouts were found to be extremely useful.

The instructor was approachable and friendly when students went to him for help. The problem sets were found to be too long - some suggested more problem sets that were shorter would have been better.

PHY 100H1F The Magic of Physics

Instructor(s): V. Deyirmenjian

	Enr: 150							Mean
	Resp: 65							
	1	2	3	4	5	6	7	
Presents	0	0	0	6	24	44	24	5.9
Explains	0	0	0	3	26	33	36	6.0
Communicates	0	0	0	0	1	24	73	6.7
Teaching	0	0	0	0	12	44	43	6.3
Workload	3	7	7	64	12	4	0	3.9
Difficulty	3	4	6	47	33	3	1	4.2
Learn Exp	0	1	3	28	26	16	22	5.2

Students were very enthusiastic about this course. They found the instructor interesting, exciting and praised his ability to explain physics to arts students. Many wished that the course had been a full year course, due to the amount of material covered.

PHY 110Y1Y Basic Physics

Instructor(s): R. Logan

	Enr: 76							Mean
	Resp: 10							
	1	2	3	4	5	6	7	
Presents	10	0	20	30	40	0	0	3.9
Explains	10	10	20	40	10	10	0	3.6
Communicates	0	20	10	10	40	10	20	4.8
Teaching	10	10	0	40	10	20	10	4.3
Workload	0	0	0	80	20	0	0	4.2
Difficulty	0	0	0	70	30	0	0	4.3
Learn Exp	14	14	14	42	14	0	0	3.3

Instructor(s): R. Logan

	Enr: 143							Mean
	Resp: 37							
	1	2	3	4	5	6	7	
Presents	5	18	18	35	16	2	2	3.6
Explains	0	10	29	29	24	5	0	3.8
Communicates	0	0	8	19	33	27	11	5.1
Teaching	2	0	21	32	29	10	2	4.3
Workload	0	5	13	44	33	2	0	4.1
Difficulty	0	2	5	61	22	5	2	4.3
Learn Exp	0	11	26	50	7	3	0	3.7

Students generally disliked the labs and complained that the lab manual needed to be clearer and lab demonstrators to be better prepared. Correlation between lecture material and the experiments would have been appreciated.

Many found Logan to be an enthusiastic lecturer, although some felt he could be intimidating when answering questions. Some students said that they would like more written explanations to accompany the equations taught in class. Most felt that the tests were not a good form of evaluation - some suggested that a few short answer questions instead of only multiple choice questions would have been preferable. There was a general consensus that the textbook was very helpful.

PHY 138Y1Y Physics for the Life Sciences I

Instructor(s): P. Savaria; S. Tawfiq

	Enr: 185							Mean
	Resp: 133							
	1	2	3	4	5	6	7	
<u>Savaria:</u> Presents	6	6	8	24	21	23	9	4.6
Explains	11	19	14	28	15	7	3	3.5
Communicates	15	9	20	24	15	11	3	3.6

Teaching	16	9	16	26	17	8	6	3.7
<u>Tawfiq:</u> Presents	1	0	2	12	33	34	15	5.4
Explains	2	0	0	10	22	37	26	5.7
Communicates	1	0	1	3	21	37	34	5.9
Teaching	1	0	0	9	23	41	23	5.7
<u>Course:</u> Workload	0	0	0	65	18	12	1	4.4
Difficulty	0	0	1	19	42	23	13	5.2
Learn Exp	4	4	12	41	26	7	2	4.1

Many students did not enjoy Savaria's lectures - they found him to be confusing and monotonous. However, his online notes were appreciated. Students requested that examples be completed in class.

Instructor(s): T. Drake; W. Trischuk

	Enr: 166							Mean
	Resp: 56							
	1	2	3	4	5	6	7	
<u>Drake:</u> Presents	0	3	8	25	28	21	12	4.9
Explains	0	3	16	12	30	21	14	4.9
Communicates	0	1	10	26	28	16	16	4.9
Teaching	0	1	12	16	30	19	19	5.1
<u>Trischuk:</u> Presents	0	0	1	7	35	28	26	5.7
Explains	0	1	0	10	36	27	23	5.6
Communicates	0	0	1	14	26	33	23	5.6
Teaching	0	0	1	12	37	27	23	5.6
<u>Course:</u> Workload	0	0	0	55	29	9	5	4.6
Difficulty	0	0	0	18	43	24	13	5.3
Learn Exp	0	4	11	45	13	20	4	4.5

Instructor(s): P. Savaria; S. Tawfiq

	Enr: 191							Mean
	Resp: 145							
	1	2	3	4	5	6	7	
<u>Savaria:</u> Presents	4	6	11	30	31	11	2	4.2
Explains	20	16	26	19	9	5	0	3.0
Communicates	25	18	14	23	9	8	0	3.0
Teaching	18	17	26	21	11	2	1	3.1
<u>Tawfiq:</u> Presents	0	2	4	23	37	25	6	5.0
Explains	0	0	0	16	31	38	12	5.5
Communicates	0	0	2	9	23	50	15	5.7
Teaching	0	0	2	18	36	34	9	5.3
<u>Course:</u> Workload	0	0	4	50	26	17	2	4.6
Difficulty	0	0	1	13	40	28	15	5.4
Learn Exp	5	9	18	36	18	8	3	3.9

Students found Savaria to be an enthusiastic lecturer who was confusing. The test was felt to be too long, and not reflective of the material presented in class.

Tawfiq was generally found to be an enthusiastic lecturer, and students liked that he gave examples in class.

Instructor(s): T. Drake; W. Trischuk

	Enr: 175							Mean
	Resp: 104							
	1	2	3	4	5	6	7	
<u>Drake:</u> Presents	1	4	5	32	36	18	4	4.7
Explains	1	0	6	31	36	19	2	4.7
Communicates	1	2	13	31	27	16	4	4.5
Teaching	0	0	6	26	32	25	5	4.9
<u>Trischuk:</u> Presents	0	3	0	13	31	33	16	5.4
Explains	0	1	1	21	31	31	10	5.2
Communicates	0	1	8	19	26	25	16	5.1

Teaching	0	0	4	16	31	37	7	5.2
<u>Course:</u>								
Workload	0	0	0	41	41	10	3	4.7
Difficulty	0	1	1	25	33	30	10	5.2
Learn Exp	3	6	10	55	12	12	0	4.0

Students commented that there was too much emphasis on derivation of formulae in class, rather than on the concepts. Although some felt that Drake could have been a more interesting lecturer, he was praised for being very helpful and available for students before tests.

Trischuk was thought to be an enthusiastic lecturer, and students greatly enjoyed his demonstrations.

Instructor(s): P. Savaria; S. Tawfiq

Enr: 232	Resp: 166							Retake: 21%
	1	2	3	4	5	6	7	Mean
<u>Savaria:</u>								
Presents	11	11	13	34	14	11	3	3.8
Explains	28	20	24	20	4	1	0	2.6
Communicates	27	18	14	26	9	3	0	2.8
Teaching	26	22	21	19	6	3	0	2.7
<u>Tawfiq:</u>								
Presents	0	0	7	20	34	31	6	5.1
Explains	0	0	4	7	23	40	23	5.7
Communicates	0	0	1	7	21	33	35	5.9
Teaching	0	0	3	12	26	44	13	5.5
<u>Course:</u>								
Workload	1	0	2	54	25	13	3	4.5
Difficulty	0	0	0	21	34	29	13	5.4
Learn Exp	6	11	18	42	15	6	0	3.7

Savaria was thought to be a poor lecturer who did not communicate well and was unenthusiastic. The material on the test did not correspond well to lecture material.

Students appreciated Tawfiq's enthusiasm, and felt he helpful in answering questions.

Instructor(s): T. Drake; W. Trischuk

Enr: 209	Resp: 25							Retake: 47%
	1	2	3	4	5	6	7	Mean
<u>Drake:</u>								
Presents	0	0	0	41	16	33	8	5.1
Explains	0	0	0	16	54	16	12	5.2
Communicates	0	4	4	16	41	20	12	5.1
Teaching	0	0	0	16	25	45	12	5.5
<u>Trischuk:</u>								
Presents	0	0	0	12	24	36	28	5.8
Explains	0	0	0	16	32	28	24	5.6
Communicates	0	0	12	4	25	29	29	5.6
Teaching	0	0	4	12	16	40	28	5.8
<u>Course:</u>								
Workload	0	0	4	29	12	33	20	5.4
Difficulty	0	0	4	20	25	25	25	5.5
Learn Exp	0	5	11	52	11	11	5	4.3

Instructor(s): P. Savaria; S. Tawfiq

Enr: 175	Resp: 140							Retake: 31%
	1	2	3	4	5	6	7	Mean
<u>Savaria:</u>								
Presents	8	10	13	27	24	13	2	4.0
Explains	21	22	23	18	13	0	0	2.8
Communicates	23	16	23	19	13	2	0	2.9
Teaching	18	20	24	23	9	3	0	3.0
<u>Tawfiq:</u>								
Presents	0	0	6	17	36	23	16	5.2
Explains	0	0	0	15	25	37	21	5.6
Communicates	0	0	1	5	25	33	34	5.9
Teaching	0	0	2	10	31	42	11	5.5

Course:

Workload	0	1	4	52	21	15	5	4.6
Difficulty	0	0	1	13	36	39	9	5.4
Learn Exp	4	10	13	47	17	5	0	3.8

Savaria was generally found to be an uninteresting lecturer who relied too much on computer slide shows. Students felt the labs didn't correspond enough to the lecture material.

Tawfiq was thought to be an enthusiastic lecturer. He was thought to be an approachable instructor and provided helpful examples.

Instructor(s): T. Drake; W. Trischuk

Enr: 163	Resp: 77							Retake: 32%
	1	2	3	4	5	6	7	Mean
<u>Drake:</u>								
Presents	0	0	9	22	40	22	5	4.9
Explains	0	1	6	28	42	15	5	4.8
Communicates	2	0	7	23	38	25	2	4.8
Teaching	0	0	5	21	42	26	4	5.0
<u>Trischuk:</u>								
Presents	0	0	1	13	36	33	16	5.5
Explains	0	0	8	20	31	22	17	5.2
Communicates	1	0	5	16	38	30	8	5.1
Teaching	0	0	4	17	42	27	8	5.2
<u>Course:</u>								
Workload	1	0	0	38	32	18	9	4.9
Difficulty	1	0	0	20	31	25	20	5.4
Learn Exp	6	3	13	59	9	4	3	3.9

Students complained that both lecturers spent too much time deriving formulae, rather than explaining the concepts behind them. More examples problems demonstrating how to use the equations would have also been appreciated. Drake was found to be very helpful after class.

Trischuk was thought to be a fun and enthusiastic lecturer.

Instructor(s): P. Savaria; S. Tawfiq

Enr: 163	Resp: 77							Retake: 30%
	1	2	3	4	5	6	7	Mean
<u>Savaria:</u>								
Presents	1	5	18	10	31	27	6	4.7
Explains	10	12	14	35	14	10	1	3.7
Communicates	13	8	21	18	28	8	1	3.7
Teaching	14	9	12	33	18	12	0	3.7
<u>Tawfiq:</u>								
Presents	0	1	5	20	28	35	9	5.2
Explains	0	2	1	6	26	41	21	5.7
Communicates	0	0	1	2	28	31	35	6.0
Teaching	0	0	1	10	22	44	20	5.7
<u>Course:</u>								
Workload	0	0	1	51	28	10	8	4.7
Difficulty	0	0	2	13	38	34	10	5.4
Learn Exp	3	9	11	50	11	12	1	4.0

Students generally did not enjoy this course. They found Savaria to be a poor lecturer who was confusing and unhelpful to those who went for help. The students found his test too difficult and long for the time allotted. They generally did not enjoy the labs.

Students found Tawfiq to be enthusiastic and approachable, however, some found his lectures a little confusing. More examples would have been appreciated.

Instructor(s): T. Drake; W. Trischuk

Enr: 134	Resp: 52							Retake: 37%
	1	2	3	4	5	6	7	Mean
<u>Drake:</u>								
Presents	1	0	9	32	36	15	3	4.6
Explains	3	0	7	32	32	17	5	4.7
Communicates	3	3	15	28	25	17	5	4.4

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Teaching	0	0	5	36	32	17	7	4.8
<u>Trischuk:</u>								
Presents	1	0	0	23	33	31	9	5.2
Explains	1	0	9	27	29	17	13	4.9
Communicates	3	1	3	17	37	27	7	5.0
Teaching	0	0	0	31	39	21	7	5.1
<u>Course:</u>								
Workload	0	0	1	41	35	13	7	4.8
Difficulty	0	0	1	21	37	17	21	5.4
Learn Exp	6	4	15	50	21	0	2	3.8

Students' main complaint was that the labs were not useful. A few felt Drake could have been more enthusiastic, although he was very helpful.

Trischuk was thought to give interesting lectures, although he spoke too quickly.

PHY 140Y1Y Foundations of Physics

Instructor(s): M. Luke; S. Morris

Enr: 124	Resp: 76							Retake: 62%
	1	2	3	4	5	6	7	Mean
<u>Luke:</u>								
Presents	4	1	0	13	28	31	21	5.4
Explains	1	0	2	16	22	40	17	5.5
Communicates	1	1	0	10	20	37	29	5.8
Teaching	1	0	2	9	25	40	21	5.6
<u>Morris:</u>								
Presents	2	0	4	10	40	26	16	5.3
Explains	0	1	5	18	25	30	18	5.3
Communicates	0	0	0	5	16	28	52	6.3
Teaching	1	1	4	14	20	34	24	5.5
<u>Course:</u>								
Workload	0	0	0	16	21	30	32	5.8
Difficulty	0	0	1	6	17	38	36	6.0
Learn Exp	1	0	1	21	18	36	21	5.5

Some students found the tests to be too difficult and many complained that the labs took too much time. Luke was thought to be a little more rigorous and very good at teaching

Morris was found to be enthusiastic and humorous.

PHY 238Y1Y Physics for the Life Sciences II

Instructor(s): K. G. McNeill; T. Antimirova

Enr: 47	Resp: 17							Retake: 64%
	1	2	3	4	5	6	7	Mean
<u>McNeill:</u>								
Presents	0	0	5	11	41	29	11	5.3
Explains	0	0	11	11	29	29	17	5.3
Communicates	0	0	0	17	23	35	23	5.6
Teaching	0	0	0	11	29	52	5	5.5
<u>Antimirova:</u>								
Presents	0	0	5	23	35	23	11	5.1
Explains	0	0	23	23	11	23	17	4.9
Communicates	0	0	0	23	17	35	23	5.6
Teaching	0	0	5	11	41	35	5	5.2
<u>Course:</u>								
Workload	0	0	29	64	5	0	0	3.8
Difficulty	0	11	23	47	17	0	0	3.7
Learn Exp	0	0	5	58	23	5	5	4.5

Most students enjoyed this course and felt they learned interesting material. The demonstrations were particularly appreciated. Some found one for the texts hard to follow.

McNeill and Antimirova were thought to be good lecturers. Although some felt Antimirova went through her overheads too quickly.

PHY 252H1S Thermal Physics

Instructor(s): A. Peet; P. Savaria

Enr: 60	Resp: 28							Retake: 57%
	1	2	3	4	5	6	7	Mean
<u>Peet:</u>								
Presents	0	0	0	11	11	40	37	6.0
Explains	0	0	11	18	37	18	14	5.1
Communicates	0	0	0	11	29	29	29	5.8
Teaching	0	0	0	14	29	37	18	5.6
<u>Savaria:</u>								
Presents	0	0	0	7	25	44	22	5.8
Explains	0	3	0	11	23	46	15	5.5
Communicates	0	0	0	11	29	33	25	5.7
Teaching	0	0	0	3	29	48	18	5.8
<u>Course:</u>								
Workload	0	0	3	35	28	28	3	4.9
Difficulty	0	0	3	25	39	25	7	5.1
Learn Exp	0	0	0	27	27	36	9	5.3

Students found Peet to be a very well-organized and enthusiastic lecturer. A few students felt that she went a little too fast during her lectures, but all appreciated her online notes. Some found the problem sets too long, and would have appreciated more example problems to be worked out in class.

Savaria was generally well-liked, and most enjoyed his lecture style. He was complimented as being good at giving students an idea of the "bigger picture".

PHY 255H1F Oscillations and Wars

Instructor(s): R. Desai

Enr: 69	Resp: 46							Retake: 72%
	1	2	3	4	5	6	7	Mean
Presents	0	0	2	4	17	41	34	6.0
Explains	0	0	8	8	23	36	21	5.5
Communicates	0	0	2	2	10	39	45	6.2
Teaching	0	0	0	4	15	44	35	6.1
Workload	0	0	0	54	30	15	0	4.6
Difficulty	0	2	6	41	36	13	0	4.5
Learn Exp	0	2	5	15	23	36	15	5.3

Students generally enjoyed this course and found Desai to be a well-organized, enthusiastic lecturer. Some would have appreciated more examples being done in class.

PHY 256H1F Introduction to Quantum Physics

Instructor(s): A. Steinberg

Enr: 70	Resp: 57							Retake: 76%
	1	2	3	4	5	6	7	Mean
Presents	0	1	3	16	30	28	19	5.4
Explains	0	5	7	19	28	23	16	5.1
Communicates	0	1	0	0	10	38	49	6.3
Teaching	0	0	1	3	26	43	24	5.9
Workload	0	0	0	7	33	46	12	5.6
Difficulty	0	0	0	0	17	37	44	6.3
Learn Exp	0	0	6	8	31	31	22	5.6

Students generally found this course to be interesting, and found the instructor enthusiastic. The course website was thought to be useful, however, the textbook was not. Overall, students were satisfied with the course, although many found the workload heavy.

PHY 305H1F Electronics Lab I

Instructor(s): T. Drake

Enr: 13	Resp: 8							Retake: 71%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	14	28	42	14	5.6
Explains	0	0	0	0	57	14	28	5.7
Communicates	0	0	0	0	0	62	37	6.4

Teaching	0	0	0	12	12	62	12	5.8
Workload	0	0	12	37	37	12	0	4.5
Difficulty	0	0	12	50	25	12	0	4.4
Learn Exp	0	0	0	40	20	0	40	5.4

Drake was more than willing to help in the experiments. Overall, a very good instructor and an enjoyable course.

PHY 307H1F Introduction to Computational Physics

Instructor(s): B. Holdom

Enr: 15	Resp: 10							Retake: 100%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	40	60	0	5.6
Explains	0	0	0	10	30	40	20	5.7
Communicates	0	0	0	10	20	60	10	5.7
Teaching	0	0	0	0	20	70	10	5.9
Workload	0	0	20	80	0	0	0	3.8
Difficulty	0	0	20	60	10	10	0	4.1
Learn Exp	0	0	0	25	12	25	37	5.8

Students generally enjoyed this course and felt that Holdom presented information well. Some would have liked more feedback on the projects and others felt the labs were too long.

PHY 308H1S Time Series Analysis

Instructor(s): B. Milkereit

Enr: 14	Resp: 12							Retake: 83%
	1	2	3	4	5	6	7	Mean
Presents	0	0	8	50	33	0	8	4.5
Explains	0	0	16	50	8	25	0	4.4
Communicates	0	0	0	25	33	25	16	5.3
Teaching	0	0	9	18	36	36	0	5.0
Workload	0	0	50	41	8	0	0	3.6
Difficulty	0	0	25	50	25	0	0	4.0
Learn Exp	0	12	12	12	0	50	12	5.0

Students appreciated the individual attention they go.

PHY 315H1S Radiation in Planetary Atmospheres

Instructor(s): S. Melo

Enr: 12	Resp: 6							Retake: 100%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	50	33	16	5.7
Explains	0	0	16	16	33	16	16	5.0
Communicates	0	0	0	0	16	66	16	6.0
Teaching	0	0	0	20	20	60	0	5.4
Workload	16	0	33	50	0	0	0	3.2
Difficulty	0	0	50	50	0	0	0	3.5
Learn Exp	0	0	0	40	40	0	20	5.0

Melo was thought to be an enthusiastic lecturer who cared about the course. She provided excellent insight on a broad set of issues in atmospheric radiation.

PHY 342H1S Current Questions in Mathematics and Science

Instructor(s): A. Steinberg

Enr: 11	Resp: 8							Retake: 100%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	12	50	37	6.2
Explains	0	0	0	0	28	42	28	6.0
Communicates	0	0	0	0	12	62	25	6.1
Teaching	0	0	0	0	12	50	37	6.2
Workload	0	12	12	50	25	0	0	3.9
Difficulty	0	12	0	62	12	12	0	4.1
Learn Exp	0	0	0	0	16	33	50	6.3

Students were very enthusiastic about this course and the instructor. Some suggested having an extra 1/2 hour every week as there wasn't

always sufficient time for discussions.

PHY 346H1S Intermediate Biophysics

Instructor(s): M. Joy

Enr: n/a	Resp: 12							Retake: 66%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	20	40	10	30	5.5
Explains	0	0	9	9	36	27	18	5.4
Communicates	0	0	9	9	54	9	18	5.2
Teaching	0	0	9	9	27	27	27	5.5
Workload	0	0	8	50	33	0	8	4.5
Difficulty	0	0	0	25	33	8	33	5.5
Learn Exp	0	0	9	9	27	27	27	5.5

Some students found the course content interesting, but felt that not enough time was spent on each section.

PHY 351H1S Classical Mechanics

Instructor(s): T. Shepherd

Enr: 55	Resp: 29							Retake: 92%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	0	10	35	53	6.4
Explains	0	0	3	7	14	39	35	6.0
Communicates	0	0	0	3	17	50	28	6.0
Teaching	0	0	3	0	10	42	42	6.2
Workload	0	0	0	25	33	25	14	5.3
Difficulty	0	0	0	35	42	21	0	4.9
Learn Exp	0	0	0	9	22	31	36	6.0

The majority of students thought Shepherd was a very good and well-organized instructor and that the course was very good and interesting.

Several students thought more examples of the material could have been presented.

PHY 353H1S Electromagnetic Waves

Instructor(s): E. Poppitz

Enr: 34	Resp: 19							Retake: 94%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	5	15	36	42	6.2
Explains	0	0	0	11	5	55	27	6.0
Communicates	0	0	0	0	15	21	63	6.5
Teaching	0	0	0	5	0	50	44	6.3
Workload	0	0	0	22	55	5	16	5.2
Difficulty	0	0	0	21	47	21	10	5.2
Learn Exp	0	0	0	28	14	35	21	5.5

Students were very enthusiastic about this course. As one student wrote "Poppitz is simply the best instructor I have ever had." Students found that he presented the material in a clear and interesting manner, and was good at explaining the underlying concepts.

PHY 357H1S Nuclear and Particle Physics

Instructor(s): B. Orr

Enr: 11	Resp: 6							Retake: 100%
	1	2	3	4	5	6	7	Mean
Presents	0	0	0	16	16	50	16	5.7
Explains	0	0	0	16	50	16	16	5.3
Communicates	0	0	0	0	16	33	50	6.3
Teaching	0	0	0	0	0	50	50	6.5
Workload	0	0	33	33	33	0	0	4.0
Difficulty	0	0	0	16	66	16	0	5.0
Learn Exp	0	0	0	0	75	0	25	5.5

Students thought Orr was an excellent instructor who showed much enthusiasm about the course.

Most students thought the textbook was bad but the course notes were very good.

PHY 485H1F Modern Optics

Instructor(s): A. Steinberg

	Enr: 12							Mean
	1	2	3	4	5	6	7	
	Resp: 9							Retake: 100%
Presents	0	0	22	33	22	22	0	4.4
Explains	0	11	0	44	33	11	0	4.3
Communicates	0	0	11	11	22	55	0	5.2
Teaching	0	0	11	33	11	22	22	5.1
Workload	0	0	12	0	50	25	12	5.2
Difficulty	0	0	0	12	37	0	50	5.9
Learn Exp	0	0	0	33	16	33	16	5.3

Everyone felt that the lectures did not cover all the material that they were responsible for. Steinberg's lecture style was easy to follow. A lot of extra work was required in this course to fully understand the subject.

PHY 487H1S Condensed Matter Physics

Instructor(s): A. Griffin

	Enr: 11							Mean
	1	2	3	4	5	6	7	
	Resp: 9							Retake: 100%
Presents	0	0	0	11	33	11	44	5.9
Explains	0	0	0	0	11	77	11	6.0
Communicates	0	0	0	0	0	22	77	6.8
Teaching	0	0	0	0	11	55	33	6.2
Workload	0	0	11	44	22	22	0	4.6
Difficulty	0	0	0	22	44	33	0	5.1
Learn Exp	0	0	0	0	33	50	16	5.8

Students really enjoyed this course, and found Griffin to be an enthusiastic and knowledgeable instructor. He explained the material clearly, and the problem sets were thought to be fair.

PHY 489H1F Introduction to Higher Energy Physics

Instructor(s): W. Trischuk

	Enr: 6							Mean
	1	2	3	4	5	6	7	
	Resp: 5							Retake: 80%
Presents	0	20	20	20	0	20	20	4.4
Explains	0	0	40	40	0	20	0	4.0
Communicates	0	0	40	20	0	20	20	4.6
Teaching	0	0	40	20	0	20	20	4.6
Workload	0	0	0	60	20	20	0	4.6
Difficulty	0	0	0	60	0	20	20	5.0
Learn Exp	0	0	40	0	40	20	0	4.4