College of Arts and Sciences, Cornell University
Course Evaluation Response Summary
Semester: Fall 2005 Course Owner: PHYS
Course: PHYS 214 LEC 2 CID: 496988
Title: PHYSIII-OPTICS,WAVES&PARTICLES
Instructor: ARIAS, T
33 Responses, 58 Enrolled, 56.9% Response

Question	Mean	Count	1	2	3	4	5	6	7
N01. How often did you attend lectures? about 25% or less; about 50% about 75%; about 90%; all or nearly all	4.26	31	1	0	4	11	15		
N02. Did the lectures stimulate your interest in the subject? not at all; somewhat; very much	4.03	32	0	0	6	19	7		
N03. Did the lectures help you learn the course material? not at all; somewhat; very much	4.29	31	0	1	2	15	13		
N04. Please rate the lecturer's level of effort and organization: poor; moderate; excellent	4.78	32	0	0	0	7	25		
N05. How effectively was the lecturer able to communicate? not at all effectively; satisfactorily; very effectively	4.63	32	0	0	0	12	20		
N06. How difficult were the lectures? too easy; about right; too hard	3.50	32	0	0	16	16	0		
N07. OVERALL rating of the LECTURES: poor; satisfactory; excellent	4.31	32	0	0	3	16	13		
N08. Did the homework assignments help you learn the subject? not at all; somewhat; very much	4.19	32	0	1	5	13	13		
N09. How difficult was the homework? too easy; about right; too hard	4.22	32	0	0	2	21	9		
N10. Relative to the homework, labs, and lecture coverage, please rate the difficulty and fairness of the exams: =too easy; = about right; = too hard	3.38	32	0	4	14	12	2		
N11. Was the text helpful in learning the subject? not at all; somewhat; very much	2.07	29	12	9	3	4	1		
N12. Were the course handouts (Lab Manual, notes, etc...) helpful in learning the subject? not at all; somewhat; very much	3.66	32	1	4	10	7	10		
N13. What was your primary means of learning in this course? Lecture; Recitation section; Textbook; Homework; Office Hours or Tutoring	2.44	32	15	2	1	14	0		
N14. What was your secondary means of learning in this course? Lecture; Recitation section; Textbook; Homework; Office Hours or Tutoring	2.81	31	10	2	4	14	1		
N15. Rate the level of support provided by course staff (TAs, LAs, and Lecturer). poor; satisfactory; excellent	3.78	32	0	0	11	17	4		

College of Arts and Sciences, Cornell University
Course Evaluation Response Summary
Semester: Fall 2005 Course Owner: PHYS
Course: PHYS 214 LEC 2 CID: 496988
Title: PHYSIII-OPTICS,WAVES&PARTICLES
Instructor: ARIAS, T
33 Responses, 58 Enrolled, 56.9% Response

N16. How would you rate this course compared with other science and math courses you've taken at Cornell? poor; average; excellent	4.00	32	0	0	8	16	8		
N17. What is your college? A&S; Engineering; CALS; AAP; Human Ecology; ILR; Hotel School	1.94	32	3	28	1	0	0	0	0
N18. What is your class? Freshman; Sophomore; Junior; Senior; Grad; Extramural	2.38	32	0	20	12	0	0	0	
N19. What grade do you anticipate getting in this course? A; B; C; D	2.00	32	7	18	7	0			
N20. What is your approximate cumulative GPA? 2.2-2.7; 2.7-3.2; 3.2-3.7; >3.7	3.68	31	0	2	12	11	6		
N21. How many semesters of high school physics did you take? none; 1; 2; more than 2	3.03	30	0	7	15	8			
N22. How would you characterize your physics background, relative to the demands of this course? none; weak; okay; strong	3.13	32	0	5	18	9			
N23. How would you characterize your mathematics skills (both pre-calculus and calculus), relative to the demands of this course? none; weak; okay; strong	3.26	31	0	1	21	9			
N24. What was your most important reason for taking this course? Course required for major; Subject matter was of interest; Course has a great reputation; Course required for grad/professional work; Other	1.41	32	28	1	0	0	3		
N25. How many hours per week did you usually spent on this course outside of lecture, lab and recitation sections? 2; 3-5; 6-10; 11-15; 16 or more	2.84	31	1	6	21	3	0		

Question	**%True**	**Count**	**True**	**False**
T01. I took AP physics in high school.	84%	31	26	5

College of Arts and Sciences, Cornell University
Course Evaluation Response Summary
Semester: Fall 2005 Course Owner: PHYS
Course: PHYS 214 LEC 2 CID: 496988
Title: PHYSIII-OPTICS,WAVES&PARTICLES
Instructor: ARIAS, T
33 Responses, 58 Enrolled, 56.9% Response

C01. Please write any comments about the lectures or the lecturer here.

84910. Professor Arias is probably the best lecturer I have had at this school. His class is hard, but his lectures and office hours are excellent. I am glad I chose to take this course this semester.

84942. Excellent lecturer and good lectures. Extremely well prepared--never needs to look at notes! Enthusiastic. Intelligent. Always looked forward to the lectures.

85004. Lecture were helpful to understand material. More numerical examples during lecture would be helpful.

84939. Professor Arias is definately a better than average lecturer.

84847. Excellent lecturer, clear, and a phenomenol teacher. One of the best ive had at cornell

84946. Once again, a superior physics lecturer. The course content was presented in a clear and interesting manner.

84982. The lectures were very good, lecturer was clear, helpful, and very enthusiastic.

85009. Lecture was almost always interesting and helpful.

84979. I LOVE your detailed notes on the lectures posted online, please keep them around for the next time you teach the course. The course had an odd pacing, at least to me. Right at the start it was zipping right along but somewhere early on it started being unbearably slow, and towards the end felt rushed.

85030. I really enjoyed the lectures. They were informative and stimulated participation and thinking. Prof. Arias's enthusiasm in teaching is appreciated.

84957. The best professor I have had at Cornell. Engaging and excited about the material and great at explaining things in several ways. Often took time to give an overview and put everything in perspective which helped a lot.

84970. I really enjoyed the examples that the professor used in class, and how the course was effectively tied together.

85046. Very enthusiastic about the topic.

84936. Lecturer had an unbelievable grasp on the subject

came to lecture very prepared

lectured without notes - knows his stuff

jim was an amazing help

College of Arts and Sciences, Cornell University
Course Evaluation Response Summary
Semester: Fall 2005 Course Owner: PHYS
Course: PHYS 214 LEC 2 CID: 496988
Title: PHYSIII-OPTICS,WAVES&PARTICLES
Instructor: ARIAS, T
33 Responses, 58 Enrolled, 56.9% Response

C02. Please write any comments about the homework and exams here.

84942. Homeworks were very difficult but very rewarding. Many required attending office hours to complete. Extremely well thought out and instructive problems. Most of the learning comes through struggling through the homeworks.

Exams were fair. On the difficult side.

85004. Homeworks were sometimes too long and difficult.

84939. Homeworks were pretty lengthy and difficult and almost impossible to do without outside explanations from a TA, however, the grading was appropriate considering the difficulty of the homework.

84847. homeworks very long and challenging

84982. Homeworks were a good measure of my grasp of the subject. The exams were fairly written although the second one was very easy.

85009. Homework was difficult at times, but did get me thinking about the material, and was a good indicator of what to expect on the prelims.

84979. Past HWs and Exams are great too, keep those around for next time as well. Some homework problems were really interesting, but some honestly felt like idle minded busywork. I don't mind speding time on interesting problems, but not when they take the form calculate A, plug A into B, plug B into C, C into D(Hint use Fact E), etc..

The spread of the second exam was unfairly tight, and high, but I don't know exactly how you normalize grades, so it might be much ado about nothing.

85030. Some homeworks were long and required too much tedious algebra. The second exam was too easy.

84932. The homework took a long time. They were probably the longest homeworks I've had for any course at Cornell.

84957. The problems were always interesting. but often ended up taking a lot of time which I felt was not worth what you got out of it. It led to my not trying too hard on the homeworks and waiting for the solutions which helped almost as much as doing out the problems. The second prelim was unfairly difficult I thought, to compensate they ended up grading it fairly easily.

84970. Hw and exam were challenging but fair.

85046. Homework is very difficult; often have to figure things out on our own; no book to look to for support with problems.

84936. homeworks were super hard. those problem set parties saved my life, deffinetly would not have been able to do those hws without them. exams were fair, b ut the final was kinda hard and impossible

College of Arts and Sciences, Cornell University
Course Evaluation Response Summary
Semester: Fall 2005 Course Owner: PHYS
Course: PHYS 214 LEC 2 CID: 496988
Title: PHYSIII-OPTICS,WAVES&PARTICLES
Instructor: ARIAS, T
33 Responses, 58 Enrolled, 56.9% Response

jim was an amazing help

College of Arts and Sciences, Cornell University
Course Evaluation Response Summary
Semester: Fall 2005 Course Owner: PHYS
Course: PHYS 214 LEC 2 CID: 496988
Title: PHYSIII-OPTICS,WAVES&PARTICLES
Instructor: ARIAS, T
33 Responses, 58 Enrolled, 56.9% Response

C03. Please write any comments about the course content/syllabus here.

84851. The "Vibrations and Waves" book was almost entirely useless.

84942. Perfect. Although, more time could be focused interference.

84939. The book wasn't good at all, while the lecture notes posted online were pretty much gold. That was how I learned most of the course.

84847. fair

84982. The course covered very interesting material. Although I had difficulty understand most of the things at first, I found it had become easier later on.

85009. None

84979. Can you please at least try to do some optics next time? I mean, it's even in the course title. :-)

84932. I found it confusing with so many course materials. It took a lot of time searching through the lecture notes, extra material, lab manual, and textbooks to find the information I was looking for. I wish the material were condensed into fewer sources.

84957. It seemed very laxed about pace at the beginning (when we were doing easy material) and very fast when we were doing quantum mechanics. Maybe try to even out the pace of the course a little.

84970. great course content

84936. content was advanced.

hard to grasp

jim was an amazing help