

PH 299: Workshop for Physics 203**Instructor:** Nicholas Kuzma (nkuzma@pdx.edu)

Ralf Widenhorn (ralfw@pdx.edu)

Web: <http://web.pdx.edu/~ralfw/physics/Workshop/index.html>**Wiki:** http://web.pdx.edu/~nkuzma/Ph203_2014_wiki/doku.php?id=physics_workshop

Course Description: Physics Workshop is a one credit P/NP course for students who want increase their understanding of physics by putting a little extra time and energy into problem-solving and exploration of fundamental physics concepts. The workshops are lead by students that have taken intro physics recently. The role of the workshop leader is not the role of a conventional instructor, but rather that of a guide. We expect workshop students to be highly self-motivated learners who will gain by sharing in the learning process with others. You will benefit most from workshop if you keep up with lecture class and homework.

Course Policies: Course evaluation will be on attendance and participation. To receive a passing grade you must attend workshop each week and participate actively in class. One excused absence is permitted per term. If you miss a workshop you should work on the problems and turn them in to your workshop leader. Make-up workshop assignments are due at the beginning of the final class meeting. If you anticipate missing more than one workshop you should talk to the workshop leader in advance to make alternate arrangements.

Course Schedule

April 3rd, 4th	Problem Set 1: Oscillations
April 10th, 11th	Problem Set 2: Waves on a String and Sound
April 17th, 18th	Problem Set 3: Doppler Effect and Electromagnetic Waves
April 24th, 25th	Problem Set 4: Polarization and Mirrors
May 1st, 2nd	Problem Set 5: Refraction and Lenses
May 8th, 9th	Problem Set 6: Lens Systems
May 15th, 16th	Problem Set 7: Interference and Diffraction
May 22nd, 23rd	Problem Set 8: Relativity
May 29th, 30th	Problem Set 9: Quantum Physics
June 5th, 6th	No Workshop
June 12th, 13th	No Workshop

Workshop Schedule

CRN	Day	Time	Location	Workshop Leader	Email
62985	R	12:00 – 13:50	NH 385	Ameena Alattar	aka6@pdx.edu
62982	R	14:00 – 15:50	NH 391	Bee Bui	bui@pdx.edu
62980	F	10:15 – 12:05	NH 389	Patrick Bradley	pat5@pdx.edu
62983	F	14:00 – 15:50	CH 254	Eliza Slater	elizaslater@gmail.com