The Physics of Light and Color (Physics 153)

Professor:
Richard Taylor, Willamette 173
Telephone: 346-4741, email: rpt@darkwing.uoregon.edu
website: http://materialscience.uoregon.edu/taylor/taylor.html

Class:
16 Pacific Hall, MWF 10.00 – 10.50am

Office hours:
Wednesday 2:00-4:00 p.m.

Text books:
Recommended: "Seeing the Light" by D. Falk, D. Brill and D. Stork, Published: Wiley
Others books of interest:
"Light Science" by T. Rossing and C. Chiaverina, Published: Springer
"Light and Color" by S. Williamson and H. Cummins, (Published: Wiley)
"Light and Color" by R. Overheim and D. Wagner, (Published: Wiley)

Syllabus
What is light? - basic properties
Optical instruments: mirrors (reflection) and lenses (refraction)
The camera and photography
The human eye and vision (producing and processing the image)
Color
Light waves

Grading:
2 Mid-term exams (20% each) + homeworks (40%) + final exam (20%)
Homework: set each Friday, collected the following Friday.

Homework Sets:
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Download Course Information: Teaching153.doc

homework set 1 (due Thursday 8th April)
  word version
  pdf version

homework set 2 (due Thursday 15th April)

homework set 3 (due Thursday 22nd April)

homework set 4 (due Thursday 29 April)

homework set 5 (due Thursday 6th May)

homework set 6 (due Thursday 13th May)

homework set 7 (due Thursday 20th June)
Friday 28th September - Homework Set 1
Friday 5th October - Homework Set 2
Friday 19th October - Homework Set 3
Friday 26th October - Homework Set 4
Friday 9th November - Homework Set 5
Friday 16th November - Homework Set 6