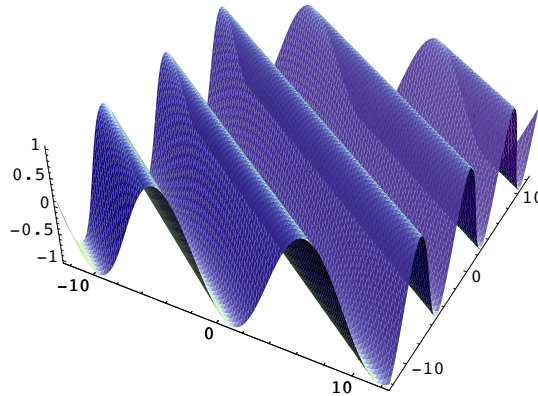


PHYS 325 - Optics - 2016



Lectures: Elliott 160 Time: Tuesday, Wednesday and Friday, 12:30 - 1:20 PM
Prof. G. M. Steeves, Elliott 116, tel. 721-7768, email: gsteeves@uvic.ca

Office Hours: Tuesday and Wednesday 2:00 - 3:00 or by appointment.

Course Description: Reflection and refraction at plane and spherical surfaces, thin lenses, lens aberrations, optical instruments, interference, diffraction, polarization.

Course Prerequisites: PHYS 216; and MATH 204 and 211; or permission of the department.

Course Text:

E. Hecht, Optics - 5th Edition, Addison Wesley, 2015.

Alternatives:

(Pedrotti)³, Introduction to Optics - 3rd Edition, Addison Wesley, 2006.

E. Hecht, Optics - 4th Edition, Addison Wesley, 2002.

Course Assessment:

Laboratory: 15%

Quizzes: 25%

Research Project: 20%

Final: 40%

Quizzes:

There will be 4 in-class quizzes given during the course. The quiz dates are tentatively scheduled for January 19th, February 16th, March 4th and March 23rd. Study content will be covered in class beforehand.

Research Project / Poster Presentation:

Students will complete a research project on an optics topic of their choosing and present their project during the P325 Poster Session on March 25th. A list of suggested topics will be provided, or you can suggest your own research topic for approval. A one page individual outline of the poster will be due on March 10th (worth 20% of the poster grade or 3% of the final grade). Students will present their research project as a poster.

