

Introduction to lasers

Tentative PHYS 115 Syllabus

Instructor: Gang Wang
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Office hours: Tuesday 1:30 pm – 2:30 pm, Thursday 1:30 am – 2:30 pm, Thursday 11:00 am – 12 pm. You are also welcome to stop by outside these time slots, but I may be hiding in the lab. So try to catch me in my office. Or, email is always a good way to approach me.

Course requirements:

Textbook: A conceptual introduction to lasers
By M. F. masters (available in the bookstore.)
Lectures: Tuesday 2:30 pm - 4:20 pm, KT 132
Lab: Thursday 2:30 pm – 4:20 pm, KT 133

Grading:

Homework assignments	25%
In class quizzes	5%
Lab	20%
Midterm Exam 1 (Tue. 10/06)	15%
Midterm Exam 2 (Tue. 11/24)	15%
Final Exam (Wed. 12/18).....	20%

General Policies:

- Final grade assignment:
A⁺ = 97%-100% (4.0GP) A = 93-96.99% (4.0 GP) A⁻ =90%-92.99% (3.7 GP)
B⁺ = 87%-89.99% (3.3GP) B = 83-86.99% (3.0 GP) B⁻ =80%-82.99% (2.7 GP)
C⁺ = 77%-79.99% (2.3GP) C = 73-76.99% (2.0 GP) C⁻ =70%-72.99% (1.7 GP)
D⁺ = 67%-69.99% (1.3GP) D = 63-66.99% (1.0 GP) D⁻ =60%-62.99% (0.7 GP)
F = 0-59.99% (0 GP)
- Final exam counts 20% toward your final grade, however, you must score 50% or higher in the final Exam to pass the class.
- Homework assignments are due by 4:30 on the indicated dates. Late submission may be accepted for partial credit. One half of the full score of that assignment will be taken off **PER DAY** past due.
- All in class quizzes are “pop-up” quizzes. Absolutely **NO** make-up quizzes.
- Pre-Labs are due in the week **PREVIOUS** your lab. **NO** late submission will be accepted.

Lab Policies:

Each lab is graded based on a full credit of 20 points, which includes 5 points for pre-lab, 5 points for the lab performance, and 10 points for the final task.

Objective of the class:

This is a general education course. The course is designed to help you obtain the fundamental, yet very important knowledge about science, physics, optics and lasers. More importantly, the lecture will involve heavy discussions to help you build the skills for critical thinking and logical analyses. You are encouraged to apply the knowledge to explain the problems you may come across in your life. The labs are designed to not only improve your understanding the lecture, but also to discover some interesting physics phenomena by yourself. Therefore, the labs are not necessarily scheduled at the pace of lectures. In your labs, please be prepared to run into new questions which may not be covered in the lecture yet.

Disabilities Statement:

If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Director of Services for Students with Disabilities (Walb Union, Room 113, telephone number 481-6658) as soon as possible to work out the details. Once the Director has provided you with a letter attesting to your needs for modification, bring the letter to me. For more information, please visit the web site for SSD at <http://www.ipfw.edu/ssd/>