

Syllabus for PHY492, Spring 2012

Nuclear and Elementary Particle Physics

Lecturer: Hiro IWASAKI

Contact: Email: iwasaki@nscl.msu.edu; Office: W107 in Cyclotron

Office hrs: After every lecture or anytime by appointment

Lectures: Mon., Wed., and Fri., 9:10-10:00 am at BPS 1420

Required Textbook:

“Nuclear and Particle Physics An Introduction” (Second Edition) B.R. Martin, WILEY

Recommended textbooks for reference:

“Introductory Nuclear Physics” K.S. Krane, John Wiley & Sons

“Introduction to High Energy Physics” D.H. Perkins, Cambridge University Press

Course Schedule:

The **Course Schedule** is shown in the different place;

<http://www.nscl.msu.edu/~iwasaki/PHY492/phy492-schedule2012.pdf>

Dates for homework, exams and a term paper are also given in the **Course Schedule**.

Tier II Writing Assignment:

You are required to write an 8-10 page term paper on a subject chosen from a list to be provided. The paper is a Tier II writing requirement. It will be graded on physics content, style, legibility, and overall content. First draft of the paper will be due on Friday, **March 30**. Deadline for the final paper will be Monday, **April 23**.

Homework and Exams:

There will be 7 homework assignments. The homework due dates are indicated in the **Course Schedule**. Homework handed in late will not be graded, but will be logged. Reading assignments for each lecture will generally be given at the end of previous lecture.

Two, 50 minute midterm exams (closed book and notes) will be given on Feb. 20 (Mon) and April 9 (Mon) (**Course Schedule**). The exams will be based on quiz questions, homework, and material presented in the lectures. There is no final exam.

Documented medical excuses for one exam will be required so that the score for the missing exam can be replaced by an average of the other scores. Missing two exams will be considered on a case by case basis. In any event that you will miss the exams with legitimate excuses, you should first inform me by email.

Grades

Your grade will be determined as follows;

Each Midterm Exam	25%
Homework	20%
Term paper	30%