SYLLABUS for PHY 306: Nuclear Physics

January 5, 2016

Paul Souder
Room 321 tel:3-9102; email: souder@phy.syr.edu
Office hours: 10:50 Tue. (or arrange by phone or e-mail)
Class Meeting: T/Th 9:30 pm-10:50 pm; Room 106N.


GOALS

1. Basic concepts: nuclear size, isotopes, forces, energy, and lifetimes.
2. Nuclear structure: Are nuclei like drops of water or more like atoms?
3. Interaction of radiation with matter.
5. Nuclear medicine.
6. Nuclear power and weapons.

Grading

1. 15% Classwork, Office Hours
2. 30% Homework
3. 30% Examinations (2)
4. 25% Presentation
University Class Policy

1. Academic Integrity
   The SU Academic Integrity Policy holds students accountable for the integrity of the work that they submit. Students should be familiar with that policy.
   Working with other students can be very helpful when learning physics. However, you must generate your final homework solutions by yourself. Do not copy solutions. For exams, no notes or help in any form is allowed.

2. Faith Tradition Observances
   Students who will miss any class due to religious observances are welcome to make alternative arrangements provided that I am notified of your request before the end of the second week of the semester.

3. Disabilities
   If you believe that you need accommodations for a disability, please contact the office of Disability Services (ODS), http://disabilityservices.syr.edu, located at 804 University Avenue, room 309, or call (315) 43-4498 for an appointment to discuss your needs and the process for requesting accommodations. Accommodations may require early planning, so please contact ODS as soon as possible.