Syllabus - Graduate Nuclear and Particle Physics II

Website: [http://ww2.odu.edu/~skuhn/NucPhys/teaching823.html](http://ww2.odu.edu/~skuhn/NucPhys/teaching823.html)

Class Meetings: 5:00 p.m. - 6:15 p.m. - Mondays and Wednesdays

Oceanography & Physics (OCNPS) Building Room 403

Instructor: Dr. Sebastian E. Kuhn
Eminent Scholar & Professor of Physics
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Web: [http://www.odu.edu/~skuhn/](http://www.odu.edu/~skuhn/)

Office hours: Fridays 11:00 – 12:00 in my office
and by appointment (just ask me after class, send email or call)

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Further Material: Particle Data Group website (pdg.lbl.gov) and publications (pocketbook, full edition)
Other websites linked to the course web page
INTRODUCTION

This is the second semester of a 2-semester sequence in graduate nuclear and particle physics. Building upon the foundation built in the first semester, we will study a few subjects in contemporary nuclear and hadronic physics. In particular, we will follow the newest NSAC long range plan (2015) and discuss the topics presented therein. The course will be a bit less formal and more seminar-like than the first semester – expect to be called upon to participate! Also, all students are required to give in-class presentations!

Required course work includes attendance at the lectures, one oral presentation, and four “mini-papers” (tba). The student presentations (about 20-30 min each, plus time for questions) can be on applications of nuclear physics, or on specific experiments or theoretical research relevant for the course (including your own project). Please pick a topic early in the semester, after consultation with me.
Grading Scheme:
Approximately 15% based on each “mini-paper” and 40% on in-class participation (which includes the presentation).

Policy on Classroom Etiquette
Please follow the general rules of courtesy and respect. This means: Do not come late or leave early, and while in class, refrain from all other activities (including eating and drinking, talking to others, using electronic devices etc.). I reserve the right to ask students to leave if they disrupt the learning experience of their classmates.

Policy on Cooperation
I consider it advantageous if students cooperate with each other on homework and other course-related items. In fact, I encourage students very strongly to meet up with each other for regular discussions and to tackle assignments together.
However, I require that each student turn in their own (hand- or computer-written) version of each homework and assignment. Also, NO cooperation is allowed on the Midterm and Final Exams – everybody has to do ALL of the work her/himself. I consider it unethical and a violation of the honor code to copy the solution of a homework problem or an Exam verbatim from another student's solution or from a book. All material used (other than informal discussions) must be properly cited.
In this context, I want to remind everyone of the University policy: Any official sanction for cheating, including the assignment of a grade of F for a quiz or for a course as a penalty for cheating, will appear on the student's permanent academic transcript.

Accommodation Statement
Students are encouraged to self-disclose disabilities that have been verified by the Office of Educational Accessibility by providing Accommodation Letters to their instructors early in the semester in order to start receiving accommodations. Accommodations will not be made until the Accommodation Letters are provided to instructors each semester.