

Standard Model 2/QFT 3, PHZ7359

Course Information Spring 2020

Lecturer: C. B. Thorn, NPB 2069, tel: 392-5701, email: thorn@phys.ufl.edu

Lectures: MWF 8th period (3:00-3:50), Room NPB1011.

Office Hours: MW 7th period (1:55-2:45pm), F 9th period (4:05-4:55p), and by appointment.

Textbook: My lecture notes and assigned problem sets and will be posted on the course webpage:

<http://www.phys.ufl.edu/~thorn/homepage/qftinfo.html>

The lectures will be self-contained. There is no required textbook, but I recommend the following books for alternative perspectives: *An Introduction to Quantum Field Theory*, Michael E. Peskin and Daniel V. Schroeder, (Addison Wesley, 1995); *Quantum Field Theory and the Standard Model*, Matthew D. Schwartz, (Cambridge University Press, 2014); *Quantum Field Theory*, Mark Srednicki, (Cambridge University Press, 2014).

Examinations: A take home final examination will comprise 40% of your course grade.

Homework: Problem sets will be assigned on approximately a biweekly basis and will comprise 60% of your course grade.

A score for each problem will be recorded: on a scale of 0 to 10, if handed in by the due date; on a scale of 0 to 8 if handed in within one week after the due date; and on a scale of 0 to 5 if more than 1 week late. All late homework and currently due homework must be handed in to me by 5pm on the last day of class. Note that this means that the last two homeworks will not be fully eligible for late hand in! Note that completed solutions to individual problems handed in on time will not be subject to the late penalty!

Please prepare each solution as a well-reasoned essay, explaining all important steps.

Collaboration and penalty for copying: I encourage open discussion with your fellow students on the assigned homework problems. However, it is mandatory that you write up your solutions individually using your own reasoning in your own words. Any submitted solution, which is found to be essentially identical to another submitted solution or to a solution posted on the department webpages or elsewhere on the internet, will be given a score of zero.