28 lectures, 13 discussions

Thurs. Jan. 15 Introduction
----Mon., Jan. 19 no discussion
Tues. Jan. 20 Ch. 1 Preliminaries: Relativistic Kinematics
Thurs. Jan. 22 Cross Sections
----Mon. Jan. 26
Tues. Jan. 27 Passage of radiation through matter
Thurs. Jan. 29 Accelerators and detectors -- HW 1 due
----Mon. Feb. 2
Tues. Feb. 3 Ch. 2 Nucleons, leptons, and bosons
Thurs. Feb. 5 Quantum numbers of the pion -- HW 2 due
----Mon. Feb. 9
Tues. Feb. 10 Ch. 3 Symmetries
Thurs. Feb. 12 Pion decay -- HW 3 due
----Mon. Feb. 16 no discussion
Tues. Feb. 17 Monday schedule
Thurs. Feb. 19 Isospin
----Mon., Feb. 23
Tues. Feb. 24 Ch. 4 Hadrons
Thurs. Feb. 26 Quark model -- three families -- HW 4 due
----Mon. Mar. 2
Tues. Mar. 3 Review
Thurs. Mar. 5 Midterm Exam

----Mon. Mar. 9 Spring break
Tues. Mar. 10 Spring break
Thurs. Mar. 12 Spring break

----Mon. Mar. 16
Tues. Mar. 17 Ch. 5 Quantum electrodynamics
Thurs. Mar. 19 Running coupling constant alpha
----Mon. Mar. 23
Tues. Mar. 24 Ch. 6 Chromodynamics
Thurs. Mar. 26 Alpha_s -- HW 5 due
----Mon. Mar. 30
Tues. Mar. 31 Ch. 7 Weak interactions
Thurs. Apr. 2 Mixing -- HW 6 due
----Mon. Apr. 6
Tues. Apr. 7 Ch. 8 Neutral K and B mesons
Thurs. Apr. 9 Oscillations and CP violations -- HW 7 due
----Mon. Apr. 13
Tues. Apr. 14 Ch. 9 Standard model
Thurs. Apr. 16 W and Z bosons -- HW 8 due
----Mon, Apr. 20 no discussion
Tues. Apr. 21 Ch. 10 Neutrino mixing and oscillations

Thurs. Apr. 23 Monday schedule
----Mon. Apr. 27
Tues. Apr. 28 LHC Physics
Thurs. Apr. 30 Review -- HW 9 due

Fri. May 8 9:00-11:00 AM *** FINAL EXAM ***