The course will take a phenomenological approach to particle physics, describing the symmetries and the fundamental interactions (electromagnetic, weak, strong) that make up the Standard Model. We will also discuss the latest results from the Large Hadron Collider (LHC) as well as expectations for discoveries of physics beyond the Standard Model from the upcoming LHC run, scheduled to commence this spring.

Prior knowledge of Quantum Field Theory will not be necessary. There will be no final exam and no required homework. The course grade will be based on a presentation each student will make at the end of the term, on a particle physics topic of their choice.