

**PHYS 70600**  
**Introduction to Elementary Particle Physics**  
**(1 credit)**  
**Graded S/U**

- Empirical foundations
  - Accelerators
  - Detectors
  - Experimental techniques
  - Crucial experiments
- Standard Model of High Energy Physics:
  - Particles & Interactions
  - Symmetries & Group Theory
- The LHC & neutrino experiments: what will we find?
- Connection to Cosmology: Dark Matter & Dark Energy

**Level:**

- First -year graduate students

**Counts as:**

- For graduate students: A one-credit course that counts towards the breadth requirement.

**Offered:** Every spring.