Keck School of Medicine of USC

Epidemiology (Ph.D.) Learning Objectives

After completion of the program the candidate will be able to do the following:

1. Understand and apply statistical methods for the design of biomedical research and analysis of biomedical research data;
2. Gain a thorough understanding of epidemiological and clinical trial study designs and the appropriate analysis of data arising from specific study designs;
3. Use and interpret results from specialized computer software for the management and statistical analysis of research data;
4. Learn to participate on a research team in the research study design, data coordination and management, and statistical analysis and reporting of study results.
5. Have sufficient preparation for careers as project managers or data analysts/programmers in pharmaceutical and biotechnology industries government agencies, research institutions, hospitals, and research settings in healthcare systems.