TIME	COURSE	BRIEF COURSE DESCRIPTION
YEAR 1		
Fall Quarter	Epidemiology (Epid.) 1	Introduction to epidemiology, including factors governing health and disease in populations.
	Biostatistics 1	Introduction to methods and concepts of statistical analysis.
	Sem. Cancer Epid.	Weekly seminar critiquing/reviewing the literature on cancer epidemiology.
	Cancer Epid.	Introduction to the basic concepts of cancer epidemiology.
Winter Quarter	Epid Methods 1	Comprehensive coverage of concepts, principles, and methods in epidemiology, with emphasis on study design, statistical analysis, and causal inference.
	Biostatistics 2	Introduction to analysis of variance, linear regression, and correlation analysis.
	Comp. Manage. of Health Data	Concepts of health data management, design & maintenance of large databases, computing tools and techniques for statistical analysis, tabulation and report generation.
	Molecular Genetic Basis of Cancer	Integration of fundamental and clinical concepts in carcinogenesis (genetics, growth regulation, chemical & infectious, metastasis, gene regulation, suppressor-and oncogenes).
Spring Quarter	Epid. Methods 2	Comprehensive coverage of theoretical and quantitative methods in epidemiology, focusing investigation of disease etiology and other causal relationships in public health.
	Biostatistics 3	Experimental design, analysis of variance, multiple and polynomial regression analysis.
	Issues in Cancer Prev. and Control	Introduction to the course and characteristics of cancer epidemiology. Cancer control goals for the nation, prevention, and interventions methods
	Genetic Epid.	Presentation of basic concepts of genetic/molecular epidemiology, familial aggregation, segregation analysis, lab methods, linkage analysis, and gene-environment interaction.
Summer Quarter	Field and Lab Placement	The trainees work in one of the collaborating cancer programs at UCLA or at USC.
	Intro to Comp. Lang.	A course on Statistical Analysis System software as applied to epidemiological data.
YEAR 2		
Fall Quarter	Epid: Theory and Methods 1	Advanced principles & methods of epidemiology: analysis of clustering; measures of effect, bias sources, estimation and hypothesis testing; models for risk and rates.
	Social Epid.	Relationship between sociological, cultural, and psychosocial factors in the etiology, occurrence, and distribution of disease morbidity and mortality.
	Occupational Epid.	Weekly lecture to present occupational exposure and cancer clusters and related issues, the use of job-exposure-matrix, and related occupational study design.
	Molecular Epid. of Cancer	Presentation and discussion of the application of exposure markers such as DNA-adducts, cancer susceptibility markers and tumor markers in cancer epidemiology.
Winter Quarter	Epid: Theory and Methods 2	Advanced principles and methods of epidemiologic analysis with an emphasis on Bayesian, frequentist, and likelihood approaches to epidemiologic analyses.
	Health-Related Behavior Change	Behavioral science approach to natural determinants of change as the foundation for planned changes in health-related behavior at community, group, and individual levels.
	Environmental Epid.	Discussion of environmental exposure and disease using epidemiology methods.
	Sem. Cancer Epid.	Presentation and discussion of literature on cancer genetic/molecular epidemiology.
	Applied Genetic Modeling	Provide students with the basic concepts required for statistical analysis of familial studies of disease (students interested in statistical genetic/genetic epidemiology).
Spring Quarter	Epid. of Aging	Overview of the major concepts and issues in geriatric epidemiology.
	Applied Multivariate Stat.	Use of multiple regression, principal components, factor analysis, discriminate function analysis, logistic regression, and canonical correlation in biomedical data analysis.
	Research Methods Cancer Epid.	Lectures and discussions on basic study design and statistical analyses in cancer epidemiological studies. Requirement: students will draft a research proposal.
Summer Quarter	Apprenticeship	The trainee will participate in ongoing research programs with faculty at both UCLA and USC to develop their potential dissertation topics in genetic molecular epidemiology of cancer.
YEAR 3		
Fall Quarter	Human Physiology	Muscular, epithelial, cardiovascular, renal, respiratory, and gastrointestinal systems.
	Epid. Doctoral Seminar	Cancer epidemiology research presented and discussed by doctoral candidates and faculty
	Topics in Cancer Epid	Multistage model, control selection, diet and cancer, breast and ovarian cancer screening, power calculation, meta-analysis, questionnaire design, and topics in cancer epidemiology.
	Individual Study or Research	The objective of this individual study under the faculty advisor is to help the trainee focus on an area of research and to develop a suitable dissertation topic.
	Prep for Doctoral Exam	Preparation for Doctoral Qualifying exam
	Doc. Qualifying Exam	Doctoral Qualifying Exam
Winter Quarter	Doc. Dissertation	Doctoral Dissertation Research
	Epid. Doctoral Seminar	Presentation and discussion with doctoral candidates by faculty and peers.
Spring & Summer Quarters	Doc. Dissertation	Doctoral Dissertation Research
	Elective courses	
	Advance to Candidacy	
YEAR 4		
	Doc. Dissertation	Doctoral Dissertation Research
	Dissertation completion	
	Dissertation Defense	