Genetic Epidemiology of Cancer Track

Year 1:

Term 1: 17 credits of required coursework
Principles of Epidemiology (5)
Methods in Biostatistics I (4)
Public Health Perspectives in Research, part 1 (1)*
Etiology, Prevention and Control of Cancer I (3)
Introduction to Genetic Epidemiology (4)

Term 2: 18+ credits of required coursework
Intermediate Epidemiology (6)
Methods in Biostatistics II (4)
Public Health Perspectives in Research, part 2 (1)*
Etiology, Prevention and Control of Cancer II (3)
Fundamentals of Genetic Epidemiology (4)
Epidemiology of Infectious Diseases (3)+
Research Ethics (1)#

Term 3: 11+ credits of required coursework
Cohort Studies: Design, Analysis and Applications (4)
Methods in Biostatistics III (4)
Methods in Genetic Epidemiology I (3)
Research Ethics and Integrity (3)#
Epidemiologic & Preventive Aspects of Cardiovascular Diseases (4)+

Term 4: 12 credits of required coursework
Design and Application of Case-Control Studies (5)
Methods in Biostatistics IV (4)
Methods in Genetic Epidemiology II (3)

Year 2:

Term 1: 7 credits of required coursework
Doctoral Seminar in Epidemiology (3)
Introduction to Molecular Biology (4)

Term 2: 12 credits of required coursework
Molecular Biology of Disease (3)
Statistical Approaches to Genetics of Cancer (3)*
Methodologic Issues in Cancer Epidemiology (3)
Doctoral Seminar in Epidemiology (3)

Term 3: 7 credits of required coursework
Doctoral Seminar in Epidemiology (3)
Molecular Epidemiology & Biomarkers in Public Health (4)

Term 4: 6 credits of required coursework
Problems in the Design of Epidemiologic Studies (6)

Requirements every term:
Monday and Friday Seminar Series
Twice monthly LunchLearnLink Cancer Prevention and Control Seminar
Monthly Journal Club
Monthly Research in Progress Meeting

Additional Requirements:

Year 1:
Orientation Session (September)
Retreat (January)
Symposium (May)
Consider Special Studies in terms 3 and 4
Study for the Comprehensive Exam
Take Comprehensive Exam (May/June)

Summer between years 1 and 2
Analysis of an existing cancer dataset, Rotations

Year 2:
Retreat (January)
Symposium (May)
Special Studies–Year Long
Proposal Development
Serve as a Teaching Assistant
Class in Social and Behavioral Sciences

Year 3:
Proposal presentation
Departmental Oral Exam
School-wide Oral Exam
Dissertation Research

Year 4/5:
Dissertation Research
Final Oral Defense

* This class may be taken in year 3
+ Take Epidemiologic and Prevention Aspects of Cardiovascular Disease, Epidemiology of Infectious Diseases, or other survey course outside of the Cancer Epidemiology Area of Concentration that meets the Department’s requirement for a minimum total of 3 credits.
# Take either Research Ethics or Research Ethics and Integrity.