Department of Biostatistics

2014-2015

Graduate Student Handbook

Sudipto Banerjee, Ph.D.
Department Chair
September 2014
CONTENTS

INTRODUCTION AND MISSION .............................................................................................................. 1

SCOPE AND OBJECTIVES ............................................................................................................... 1

OPPORTUNITIES IN BIOSTATISTICS .......................................................................................... 1

GRADUATE DEGREES OFFERED .................................................................................................. 2

DEPARTMENT INFORMATION ........................................................................................................ 3

THE BIOSTATISTICS FACULTY .................................................................................................... 4

FIELDING SCHOOL OF PUBLIC HEALTH TELEPHONE & ROOM NUMBERS ............................... 9

DEGREE REQUIREMENTS .............................................................................................................. 9

MASTERS OF SCIENCE IN BIOSTATISTICS (M.S.) ........................................................................ 10

DOCTOR OF PHILOSOPHY IN BIOSTATISTICS (Ph.D.) ................................................................. 12

MASTERS OF PUBLIC HEALTH WITH SPECIALIZATION IN BIOSTATISTICS (M.P.H.) .......... 14

DOCTOR OF PUBLIC HEALTH WITH SPECIALIZATION IN BIOSTATISTICS (DR.P.H.) ............ 16

2014-2015 BIOSTATISTICS CLASS SCHEDULE ........................................................................... 18

UCLA CALENDAR .......................................................................................................................... 20

STUDENT AFFAIRS ......................................................................................................................... 21

Biostatistics Student Affairs Office ............................................................................................... 21

Fielding School of Public Health Student Affairs Office .............................................................. 21

Course Schedule and Classrooms .................................................................................................. 21

My UCLA ........................................................................................................................................ 21

Registration .................................................................................................................................... 21

Paying Fees/Non-Resident Tuition .................................................................................................. 21

eBill .................................................................................................................................................. 22

Enrolling in Classes ...................................................................................................................... 22

MY UCLA Enrollment .................................................................................................................. 22

ENROLLMENT DEADLINES ........................................................................................................... 22

OFFICIAL DOCUMENTS FROM THE UNIVERSITY ...................................................................... 23

Datasheet ....................................................................................................................................... 23

BLUE PETITIONS ............................................................................................................................ 24

ADVISING ....................................................................................................................................... 24

ADVANCEMENT TO CANDIDACY .............................................................................................. 24

Master’s Degree ............................................................................................................................ 24

Doctoral Degree ............................................................................................................................ 24

WRITTEN EXAMINATIONS .......................................................................................................... 24

COURSE WAIVERS ....................................................................................................................... 25

GRADING ......................................................................................................................................... 25

STANDARDS AND PROCEDURES FOR GRADUATE STUDY AT UCLA ............................................. 26

STUDY LIST .................................................................................................................................... 26

TRANSCRIPTS ............................................................................................................................... 26

GRADUATE STUDENT LIFE AND RESOURCES ......................................................................... 27

STUDENT HEALTH SERVICES ...................................................................................................... 28

Arthur Ashe Student Health and Wellness Center ......................................................................... 28

Medical Insurance Requirement / Waiving SHIP ........................................................................ 28

The Counseling Center – Counseling & Psychological Services ................................................ 28

UCLA WRITING PROGRAMS ....................................................................................................... 29

CAREER DEVELOPMENT ............................................................................................................. 29

COMPUTER AND TECHNICAL SERVICES .................................................................................. 29

ENGLISH AS A SECOND LANGUAGE .......................................................................................... 29

CALIFORNIA RESIDENCY ............................................................................................................. 30

COMPUTER FACILITIES/ACCESS ............................................................................................... 30

Bruin Online (BOL) ....................................................................................................................... 30
Borrowing a CLICC Laptop ........................................................................................................31

Office for Students with Disabilities (OSD) ..............................................................................32

Parking, Transportation & Shuttle Services ................................................................................32
  Public Transportation ..............................................................................................................32
  Parking ...................................................................................................................................32
  Campus Shuttles ......................................................................................................................32
  Campus Express ....................................................................................................................32

Employment & Financial Aid ......................................................................................................33
  Employment ............................................................................................................................34
  Special Opportunities ............................................................................................................34
  Work study and other need based support ...........................................................................34

Lockers ...................................................................................................................................34
Introduction and Mission

Welcome to the Biostatistics Department at UCLA. The UCLA Division of Biostatistics was established in the beginning of 1959 in the then new School of Public Health. Among other degree programs, the division offered the Ph.D. in Biostatistics, with the first degree being awarded in 1963. The Department of Biostatistics was established in 1989 when the School of Public Health reorganized into five departments from a single school-wide departmental structure. The Department of Biostatistics was organized to carry out these goals:

1) To develop a first-rate graduate program in biostatistics filling a demonstrated need for well-trained biostatisticians.

2) To develop Biostatistical research programs responsive to the scientific problems encountered in public health and biomedicine.

3) To actively collaborate with investigators at UCLA and worldwide in the solution of health problems.

The Department today is a leader in the training of biostatisticians for universities, government and industry. Its research programs are highly respected nationally and internationally. Faculty members collaborate with investigators in an extremely large number of diverse disciplines.

Scope and Objectives

In recent years biostatistics has become one of the most stimulating areas of applied statistics. The field encompasses the methodology and theory of statistics as applied to problems in the life and health sciences. Biostatisticians are trained in the skilled application of statistical methods to the solutions of problems encountered in public health and medicine. They collaborate with scientists in nearly every area related to health and have made major contributions to our understanding of AIDS, cancer, and immunology, as well as other areas. Further, biostatisticians spend a considerable amount of time developing and evaluating the statistical methodology used in those projects. The Department of Biostatistics offers M.S. and Ph.D. degrees in Biostatistics and, through the Fielding School of Public Health, the M.P.H. and Dr.P.H. degrees with a specialization in biostatistics. All students receive a balanced education, blending theory and practice.

Opportunities in Biostatistics

A degree in biostatistics prepares the student for work in a wide variety of challenging positions in government, industry, and education. Faculty members participate in collaborative research projects in areas such as cancer, AIDS, gerontology, genetics, immunology, dentistry, medical imaging, mental health, health insurance, orthopedics, and rheumatology and air pollution. Students work with faculty as research associates during their training. This practical experience often results in co-authored publications before graduation and makes the graduates highly attractive to future employers. Our graduates have found careers involving teaching, research and consulting in fields such as medicine, public health, life sciences, survey research, and computer science. The field has undergone tremendous growth in recent years and many employers now insist on biostatistical input for nearly all their research and marketing. UCLA has a superior record in training students both at the masters and doctoral levels, and our graduates have no difficulty in finding employment suited to their training and interests.
Graduate Degrees Offered

M.S. in Biostatistics
Ph.D. in Biostatistics
M.P.H. with specialization in Biostatistics
Dr. P.H. with specialization in Biostatistics

The M.S. and Ph.D. are research-oriented degrees while the M.P.H. and Dr.P.H. are professional degrees which emphasize Public Health applications.

The M.P.H. and M.S. degrees are typically two year programs, but can be completed in less time by well-prepared students. The M.P.H. emphasizes Public Health, exposing students to many important areas of health research. The M.S. gives the students a strong theoretical foundation, as well as applications, and is the best choice for any student planning to go on for a doctorate (Ph.D. or Dr.P.H.).

The Ph.D. degree program trains biostatisticians to solve problems in the health sciences and to develop biostatistical methodology. One of the major strengths of our program is its insistence on mathematical statistics coupled with hands-on experience in applied biostatistics. Graduates with a UCLA Ph.D. are exceptionally well prepared for academic careers and for industry and government careers.

Recently, a number of doctoral students have elected to enter the Dr.P.H. program which provides substantial statistical training in addition to public health knowledge. The Graduates from this program often pursue research careers, but generally as a member of a medical or health research team, rather than in a Statistics or Biostatistics Department. The mathematical requirements for this degree are not as rigorous as for the Ph.D.

Brief outlines of these degrees start on page 8. For more complete information regarding the degree requirements, please refer to the Fielding School of Public Health Announcement and the Graduate Division publication titled “Program Requirements for UCLA Graduate Degrees.”

The university web site www.gdnet.ucla.edu maintains information on degree requirements. The requirements that apply to you are those that are in effect this year and you will note this site has links for each entering class. If we change the requirements for graduate degrees after you begin your studies, you can opt for either the old or new requirements.
**Department Information**

Dept. Chair:  Sudipto Banerjee, Ph.D.  
sudipto@ucla.edu  
Room#:  51-254A CHS

Vice Chair:  Thomas R. Belin, Ph.D.  
tbeling@ucla.edu

Dept. Administrator:  Ivonne Nelson  
Email: inelson@ph.ucla.edu  
Room #:  51-254A CHS  
Phone #:  (310) 825-5370

Student Affairs:  Roxy Naranjo  
Email: rlnaranjo@ph.ucla.edu  
Room #:  51-236A CHS  
Phone #:  (310) 267-2186

Mailing Address:  Department of Biostatistics  
UCLA Fielding School of Public Health  
Box 951772  
Los Angeles, CA 90095-1772  
Room #:  51-254 CHS  
Phone #:  (310) 825-5250  
Email: biostat@ucla.edu  
Web Site:  [http://www.biostat.ucla.edu](http://www.biostat.ucla.edu)

Department Hours:  Monday – Friday: 8:00 - 4:00 PM
The Biostatistics Faculty

Abdelmonem A. Afifi, Ph.D., Berkeley.
Dean Emeritus and Professor Emeritus, on recall
Joint appointment with Biomathematics
Email: afifi@ucla.edu
Areas of Interest: Multivariate analysis, clinical trials, multi-level models and public health.

Sudipto Banerjee, Ph.D., University of Connecticut, Storrs.
Department Chair and Professor
Email: sudipto@ucla.edu
Areas of Interest: Statistical modeling and analysis of geographically referenced datasets, Bayesian statistics (theory and methods) and hierarchical modelling, statistical computing and related software development.

Thomas R. Belin, Ph.D., Harvard.
Professor
Email: tbelin@ucla.edu
Areas of Interest: Missing Data, causal inference, record linkage, mental health research.

Ronald Brookmeyer, Ph.D., University of Wisconsin
Professor
Email: rbrookmeyer@ucla.edu
Areas of Interest: Survival analysis, epidemic models, epidemiological methods and multidimensional longitudinal data, AIDS/HIV, and Alzheimer’s.

William G. Cumberland, Ph.D., Johns Hopkins.
Professor
Email: wgc@ucla.edu
Areas of Interest: Finite population sampling, stochastic modeling, applications to cancer, AIDS, and California Health Interview Survey.

Dorota M. Dabrowska, Ph.D., Berkeley.
Professor
Email: dorota@.ucla.edu
Areas of Interest: Inference in nonparametric and semiparametric models, survival analysis, counting processes, data transformations.
Catherine M. Crespi, Ph.D., UCLA.
Associate Professor
Affiliation: Jonsson Comprehensive Cancer Center,
Division of Cancer Prevention and Control Research
Email: ccrespi@ucla.edu
Areas of Interest: Analysis of recurrent events data, group randomized trials, hidden Markov Models, and Bayesian Methods.

David A. Elashoff, Ph.D., Stanford.
Professor
Joint appointment with Medicine
Email: dae@ucla.edu
Areas of Interest: Analysis of DNA microarray data: statistical methods for computing appropriate metrics for gene expression and gene filtering algorithms to isolate differentially expressed genes, analysis of protein mass-spectrometry data, clinical research in nursing and cancer.

Robert M. Elashoff, Ph.D., Harvard.
Professor
Joint appointment with Biomathematics
Email: gjertson@ucla.edu
Areas of Interest: Survival analysis, Cancer, repeated measures analysis, clinical trials design and analysis.

David W. Gjertson, Ph.D., UCLA.
Assistant Professor
Joint appointment with Pathology
Email: shorvath@mednet.ucla.edu
Areas of Interest: Statistical genetics and bioinformatics.

Steve Horvath, Ph.D., North Carolina & D.Sc., Harvard.
Professor
Joint appointment with Human Genetics
Email: cr@ucla.edu
Areas of Interest: Classification, analysis in spatially and temporally correlated data, and patter recognition of therapeutic response in medical imaging data.

Grace Kim, Ph.D., UCLA
Assistant Professor
Joint appointment with Radiological Science
Email: gracekim@mednet.ucla.edu
Areas of Interest: Statistical genetics, Bayesian phylogeny, nonparametric and semi-parametric methods.
Martin L. Lee, Ph.D., UCLA.
Professor Room #: 51-236A CHS
Email: martin.l.lee@att.net Phone #: (310) 781-3627
Area of Interest: Robust statistical methods in Pharmacokinetics.

Gang Li, Ph.D., Florida State.
Professor Room #: 51-253B CHS
Email: vli@ucla.edu Phone #: (310) 206-5865
Fax #: (310) 267-2113
Area of Interest: Survival analysis, analysis of receiver operating characteristic curves, nonparametric and semiparametric inference, longitudinal data analysis, statistical methods in medical imaging, ophthalmology, clinical trials, pharmaceutical statistics, and cancer.

Honghu Liu, Ph.D., UCLA
Professor Room #: 63-037A CHS
Joint Appointment with Dentistry Phone #: (310) 794-0700
Email: hhliu@mednet.ucla.edu Fax #: (310) 206-2688
Area of Interest: AIDS, compliance, Application to Dental Health.

Karabi Nandy, Ph.D., University of Florida
Adjunct Assistant Professor Room #: 2-954 Factor
Joint Appointment with Nursing Phone #: (310) 267-1245
Email: karabi@ucla.edu
Area of Interest: Nursing research, Sampling.

James W. Sayre, Dr.P.H., UCLA.
Professor Room #: 51-253A CHS & B3-116
Joint appointment with Radiological Sciences Phone #: (310) 825-3218
Email: jsayre@ucla.edu Fax #: (310) 267-2113
Areas of Interest: Computational statistics and database management, clinical trials, statistical methodology in medical diagnostic systems.

Damla Senturk, Ph.D., UC Davis.
Associate Professor Room #: 21-254C CHS
Email: dsenturk@ucla.edu Phone #: (310) 206-5977
Fax #: (310) 825-6402
Areas of Interest: Regression model building for repeated measures/longitudinal data, functional data analysis and semiparametric covariate and error adjustments in regression and correlation models with applications to biomedical data.

Janet Sinsheimer, Ph.D., UCLA.
Professor Room #: 5357C Gonda & AV-321 CHS
Joint appointment with Human Genetics & Biomathematics Phone #: (310) 825-8002
Email: janet@mednet.ucla.edu Fax #: (310) 825-8685
Area of Interest: Mathematical and statistical models for determining evolutionary relationships, gene mapping, and sequence variation.
**Marc A. Suchard, Ph.D., UCLA.**

Professor  
Joint appointment with Human Genetics & Biomathematics  
Email: msuchard@ucla.edu  

**Catherine Ann Sugar, Ph.D., Stanford.**

Associate Professor  
Joint appointment with Psychiatry/Biobehavioral Sci.  
Email: csugar@ucla.edu  
Areas of Interest: Clustering, functional data analysis, classification and patterns of covariation in data, applications to HIV/AIDS, mental health, dentistry, nephrology, and particularly health services research.

**Donatello Telesca, Ph.D., University of Washington**

Assistant Professor  
Email: dtelesca@ucla.edu  
Areas of Interest: Bayesian Inference, Bayesian Model Determination, Bioinformatics, Convolution Models, Cancer Research Decision Theory, Dependent Data, Functional Data Analysis, Markov Chain Monte Carlo Methods, Non-parametric Models.

**Robert E. Weiss, Ph.D., Minnesota.**

Professor  
Director, AIDS Training Grant  
Email: robweiss@ucla.edu  
Areas of Interest: Bayesian methods and computation, longitudinal data, diagnostics, graphics, hierarchical models, model selection and specification, applications to AIDS/HIV, bioinformatics, evolution and phylogeny, criminal justice, pediatric pain, community intervention studies.

**Weng Kee Wong, Ph.D., Minnesota.**

Professor  
Email: wkwong@ucla.edu  
Areas of Interest: Optimal design of experiments, linear models, pharmacokinetics, clinical trials, research in rheumatology, cancer control and prevention studies.
Emeriti

Abdelmonem A. Afifi, Ph.D., Berkeley.
Dean Emeritus and Professor Emeritus

Nancy Berman, Ph.D., American University.
Professor Emerita

Potter Chang, Ph.D., Minnesota.
Professor Emerita

Virginia A. Clark, Ph.D., UCLA.
Professor Emerita

Frederick J. Dorey, Ph.D., Massachusetts.
Professor Emeritus
Joint appointment with Psychiatry and Biobehavioral Science
Areas of Interest: Applications in mental retardation and child psychiatry, statistical computing.

Donald Guthrie, Ph.D., Stanford.
Professor Emeritus

Robert I. Jennrich, Ph.D., UCLA.
Professor Emeritus
Joint appointment with Mathematics/Statistics
Room #: 9432 BH
Phone #: (310) 825-2207
Email: rij@math.ucla.edu
Area of Interest: Statistical computing.
## Fielding School of Public Health Telephone & Room Numbers

<table>
<thead>
<tr>
<th>Department</th>
<th>Room</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of the Dean</td>
<td>16-035 CHS</td>
<td>(310) 825-6381</td>
</tr>
<tr>
<td>Student Affairs Office</td>
<td>A1-269 CHS</td>
<td>(310) 825-5524</td>
</tr>
<tr>
<td>Biostatistics Department Office</td>
<td>51-254 CHS</td>
<td>(310) 825-5250</td>
</tr>
<tr>
<td>Community Health Sciences Department Office</td>
<td>36-071 CHS</td>
<td>(310) 825-5308</td>
</tr>
<tr>
<td>Environmental Health Sciences Department Office</td>
<td>56-070 CHS</td>
<td>(310) 206-1619</td>
</tr>
<tr>
<td>Epidemiology Department Office</td>
<td>71-254 CHS</td>
<td>(310) 825-8579</td>
</tr>
<tr>
<td>Health Policy &amp; Management Department Office</td>
<td>31-269 CHS</td>
<td>(310) 825-2594 &amp; 825-7863</td>
</tr>
<tr>
<td>Public Health Student Association</td>
<td>41-240 CHS</td>
<td>(310) 206-3352</td>
</tr>
<tr>
<td>Biostatistics Consulting Lab</td>
<td>A1-279 CHS</td>
<td>(310) 206-6346</td>
</tr>
<tr>
<td>SPH Instructional Computer Lab</td>
<td>A1-241 CHS</td>
<td></td>
</tr>
<tr>
<td>Technology &amp; Learning Center (TLC)</td>
<td>12-077 CHS</td>
<td>(310) 825-3034</td>
</tr>
</tbody>
</table>
Degree Requirements

Master of Science in Biostatistics (M.S.)

PREPARATION FOR THE DEGREE:

Mathematics preparation for the program should include at least two years of calculus:

- Math 31A, B Calculus and Analytic Geometry
- Math 32A, B Calculus of Several Variables
- Math 33A, B Matrices, Differential Equations, Infinite Series

And recommended:
- Math 115A Linear Algebra

REQUIREMENTS FOR THE DEGREE:

1. Course Requirements:
   - Biostatistics 110A, B Basic Biostatistics
   - Biostatistics 202A* Theoretical Principles of Biostatistics
   - Biostatistics 202B Topics in Estimation
   - Biostatistics 200A, B, C Biostatistics
   - Biostatistics M215 Survival Analysis
   - Biostatistics 240 Master’s Seminar and Research Resources for Graduating MS Biostatistics Students
   - Biostatistics 402A Principles of Biostatistical Consulting (2 units)
   - Biostatistics 402B Biostatistical Consulting
   - Biostatistics 596 Directed Individual Study or Research (4 units) (Master’s Report)

   - One 4 unit course in the Department of Epidemiology
   - One 4 unit course in broad Public Health
   - and 12 units of special topics courses from Biostatistics M210 through M238 (except M215), 403A, 410 through 419. At least 4 of the 12 units must be in the 200 series.

Highly recommended courses (4 units):

- Biostatistics 406 Applied Multivariate Biostatistics

Required courses toward the degree **MUST** be taken on a letter grade basis (except Biostat 402B).

2. Master’s Report: A written report under the direction of a member of the Biostatistics faculty is required (usually taken as Biostatistics 596).

3. The Comprehensive Examination: This is a written comprehensive exam that is generally taken at the beginning of the second year of study in September. The scope of the exam includes material covered in the following biostatistics courses: 110A, 110B, 200A, 202A and 202B.

*Some students who have add adequate probability theory with consultation of their academic adviser may be waived of this requirement; however, the material is still covered on the MS comprehensive exam. Depending on individual circumstances and in consultation with the academic advisor, other courses that might possibly serve as substitutes for Biostatistics 202A are Math 170A. Please consult with your academic advisor.
# Typical MS Program: Sequence of Classes

This sequence of classes is intended to serve as a guide for students in the two-year MS Program in Biostatistics. In general, the faculty recommends that students take required courses in the sequence shown below. Student should meet with their faculty advisors to select electives which best suits their interests and goals.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>4. Special topic*(elective)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>** Year 1 (2014-2015)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. Special topic* (elective) or Consulting</td>
<td>2. Special topic* (elective)</td>
<td>2. Biostat 240 (required)</td>
</tr>
<tr>
<td></td>
<td>4. 4 unit course in Epi or Public Health</td>
<td>4. 4 unit course in Epi or Public Health</td>
<td>4. Consulting**</td>
</tr>
<tr>
<td></td>
<td>** Year 2 (2015-2016)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

- 12 units of special topics courses from Biostatistics M210 through M238 (except M215), 403A, 410 through 419. At least 4 of the 12 units must be in the 200 series.

- **Biostat 402B is taken once during the second year** (time is determined at the beginning of fall term).
Doctor of Philosophy in Biostatistics (Ph.D.)

The program of study requires three areas of knowledge: biostatistics, mathematical statistics, and a field of application in the life or health sciences. It is designed to train statisticians who can apply statistical methods to solve problems in the health field and who can conduct theoretical research in statistical methodology.

Preparation for the degree:

Mathematics preparation for the program should include at least two years of calculus:
- Math 31A, B Calculus and Analytic Geometry
- Math 32A, B Calculus of Several Variables
- Math 33A, B Matrices, Differential Equations, Infinite Series
- Math 115A Linear Algebra
- Math 131A Real Analysis

Biostatistics preparation for the program should include:
- Biostatistics 202B Topics in Estimation
- Biostatistics 200A, B, C Biostatistics
- Biostatistics M215 Survival Analysis

Students entering the Ph.D. with little or no prior background in probability and statistics normally take the following course during the first year of graduate study: Biostatistics 110A, 110B, 200A, 202A and 202B

Requirements for the degree:

1. Course Requirements:

**Field 1: Biostatistics**
- Biostatistics 250A, B Linear Models
- Biostatistics 251 Multivariate Biostatistics
- Biostatistics 255 Advanced Topics and Probability in Biostatistics
- Biostatistics 245 Doctoral Seminar (for more info see #3)
- Biostatistics 409 Biostatistics Consulting (for more info see #4)

- One 4 unit course in the Department of Epidemiology
- One 4 unit course in broad Public Health

- Biostat Special Topics from the 230, 270, 280 series (any 3, 4-unit courses) courses used for the MS degree at UCLA cannot be used here

**Field 2: Mathematical Statistics**
- Statistics 200B, C Large Sample Theory, Including Re-sampling
- Recommended Biostat 256 by blue petition

Recommended:
- Applied Probability
- Statistics 200A
- Biomathematics 203

**Field 3: (field of application)**

The 3rd field should be an area of application of Biostatistics such as AIDS, biology, bioinformatics, epidemiology, infectious diseases, medicine, pharmacology, physiology, psychology, zoology or public health. Electives should be selected in consultation with the
student’s advisor. The requirements include at least 16 graduate-course units. A minimum grade of B is required for each course. Before enrolling in 3rd field courses, students must complete and submit the Ph.D. Form 1 (Petition for Establishment of 3rd Field for the Ph.D. in Biostatistics) to the department chair for approval.

2. Written Examinations
There are 2 written examinations that must be taken.

   a) The Ph.D. Preliminary Exam is offered in September just before the beginning of fall classes. Students would generally take this exam in the beginning of their second year of study. Students are expected to pass the exam at a level that would predict successful completion of the Ph.D. program. The Ph.D. Preliminary Examination covers the equivalent of the following courses and is normally taken as soon as possible after having satisfactorily completing the relevant coursework:

   - Biostatistics 110A, B: Basic Biostatistics
   - Biostatistics 200A: Biostatistics
   - Biostatistics 202A: Theoretical Principles of Biostatistics
   - Biostatistics 202B: Topic in Estimation

   b) The PhD Written Qualifying Exam. This exam is offered in September just before the beginning of fall classes. The scope of the exam includes material from the following courses: Biostatistics 200B, 200C, 250A, 250B, 251, 255, and Statistics 200B, C, as well as all material covered by the Ph.D. Preliminary Exam. Students would generally take the exam after completing necessary coursework, which typically occurs either in the beginning of their 3rd or 4th year of graduate study.

3. Doctoral Seminar: Biostatistics 245
All doctoral students must register for Biostatistics 245, advanced seminar, every quarter and attend regular weekly seminar scheduled by the Department. At least once each year, each student will present a seminar.

4. Consulting: Biostatistics 409
All registered doctoral students must also enroll in Biostatistics 409 (doctoral statistical consulting seminar: field training course) for three consecutive quarters before advancement to candidacy.

5. Oral Examinations and Dissertation
   a) Oral Qualifying Examination
      The student’s understanding of statistical theory and his/her ability to apply it is evaluated in this oral examination. The proposed dissertation topic is also reviewed. Passing of this examination is required before a student is officially advanced to candidacy. A failed examination may be repeated once on the recommendation of the committee.

   b) Dissertation and Defense
      After successfully completing a dissertation under the guidance of a Biostatistics faculty member, an oral examination defending the dissertation is required. A failed examination may be repeated once on the recommendation of the committee.

**SEQUENCE OF CLASSES:**
The sequence of classes to be taken during the first year of study depends on the student’s background. Entering Doctoral students must consult with their academic advisor to determine a sequence of courses to best prepare the student for the written preliminary and qualifying exams.

Required course toward the degree **MUST** be taken on a letter grade basis (except Biostat 245 & 409).
Master of Public Health with Specialization in Biostatistics (M.P.H.)

PREPARATION FOR THE DEGREE:

Mathematics preparation for the program should include at least one year of calculus:
- Math 31A, B  Calculus and Analytic Geometry
- Math 32A  Calculus of Several Variables

REQUIREMENTS FOR THE DEGREE:

1. CORE Course Requirements in Public Health (16 units):
   - Com Hlth Sci 100  Behavioral Sciences and Health Education
   - Env Hlth Sci 100 or 101  Introduction to Environmental Health
   - Epidemiology 100  Principles of Epidemiology
   - Hlt Pol & Mgmt 100  Health Services Organization

   Each core course may be waived if the student has taken a similar college-level course elsewhere and can pass the waiver examination.

2. Course Requirements in Biostatistics (38 units):
   - Biostatistics 110A, B  Basic Biostatistics
   - Biostatistics 201A  Topics in Applied Regression*
   - Biostatistics 201B  Topics in Applied Regression*
   - Biostatistics 402A  Principles of Biostatistical Consulting (2 units)
   - Biostatistics 400  Field Studies 4 units (by blue petition)
   - Biostatistics 403A  Computer Management of Health Data
   - Biostatistics 406  Applied Multivariate Biostatistics
   - Biostatistics 595  Effective Integration of Biostatistical Concepts in Public Health Research

   and 12 units of elective courses (special topics) from Biostatistics M403B, 410 through 419, 200B, 200C, and M210 through M238

   Additional elective courses are recommended and should be selected in public health, biomathematics or mathematics.

   *200A, B may be substituted for 201A, B in consultation with academic advisor and provided the student has suitable mathematics background.

3. Field Training: The field training in an approved public health program of up to ten weeks is.

4. Written Culminating Report: The written culminating report, to be approved by the course advisor should demonstrate the mastery of the material in the required courses. It should also describe how the student has selected and used biostatistical methods to assess data from a public health field study.

5. Oral Examination: The oral examination in which the student presents his/her work to a minimum of 3 members of the biostatistics faculty (including the course advisor) and answers questions concerning both the statistical methods and the specific public health applications.

Required courses toward the degree MUST be taken on a letter grade basis (except Biostat 402B).
## Typical MPH Program: Sequence of Classes

This sequence of classes is intended to serve as a guide for students in the two-year MPH Program in Biostatistics. In general, the faculty recommends that students take required courses in the sequence shown below. Student should meet with their faculty advisors to select electives which best suites their interests and goals.

<table>
<thead>
<tr>
<th>Year 1 (2014-2015)</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Biostat 110A (required)</td>
<td>1. Biostat 110B (required)</td>
<td>1. Special topic* (elective)</td>
</tr>
<tr>
<td></td>
<td>2. Biostat 403A (required)</td>
<td>2. SPH Core Course (required)</td>
<td>2. SPH Core Course (required)</td>
</tr>
<tr>
<td></td>
<td>3. SPH Core Course (required)</td>
<td>3. Biostat 402A (required)</td>
<td>3. Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Special topic* (elective)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. SPH Core Course (required)</td>
<td>2. Special topic* (elective)</td>
<td>2. Elective</td>
</tr>
<tr>
<td></td>
<td>4. Biostat 400</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
- 12 units of elective courses (special topics) from Biostatistics M403B, 410 through 419, 200B, 200C, and M210 through M238.

Note: Students planning to enter the Dr.P.H. program after completing M.P.H. degree are advised that the Dr.P.H. has mathematics prerequisites which are **NOT** required for the M.P.H. (PLEASE READ CAREFULLY the degree description, PLAN ACCORDINGLY, and DISCUSS with your advisor.)
Doctor of Public Health with specialization in Biostatistics (Dr.P.H.)

Preparation for the Degree:

Mathematics and statistics preparation for the program should include at least two years of calculus:

- Math 31A, B: Calculus and Analytic Geometry
- Math 32A, B: Calculus of Several Variables
- Math 33A, B: Matrices, Differential Equations, Infinite Series
- Math 115A: Linear Algebra

Public Health preparation for the program must include the following courses (or equivalent) if Master’s degree is not in Public Health:

- Com Hlth Sci 100: Behavioral Sciences and Health Education
- Env Hlth Sci 100 or 101: Introduction to Environmental Health
- Epidemiology 100: Principles of Epidemiology
- Hlt Pol & Mgnt 100: Health Services Organization

*If you have not taken these courses, be sure to include them in the course of study after admission.

Requirements for the Degree:

1. Course Requirements:
   Unless previously taken:
   - Biostatistics 202A: Theoretical Principles of Biostatistics
   - Biostatistics 202B: Topics in Estimation
   - Biostatistics 200A, B, C: Biostatistics
   - Biostatistics M215: Survival Analysis
   - Biostatistics 250A, B: Linear Models
   - Biostatistics 245: Doctoral Seminar (for more info see #4)
   - Biostatistics 409: Biostatistics consulting (for more info see #3)
   - three graduate-level courses in Biostatistics selected with consent of advisor
     courses used for the MS degree at UCLA cannot be used here
   - three courses in the 400 series selected with consent of advisor
     courses used for the MS degree at UCLA cannot be used here

2. Written Examinations
   a) Dr.P.H. Preliminary Examination:
      This exam is offered in September just before the beginning of fall classes.
      Students would generally take this exam in the beginning of their second year of graduate study.
      The Dr.P.H. Preliminary Examination covers the equivalent of the following courses and is normally taken as soon as possible after having satisfactorily completing the relevant coursework:

      - Biostatistics 110A, B: Basic Biostatistics
      - Biostatistics 200A: Biostatistics
      - Biostatistics 202A: Theoretical Principles of Biostatistics
      - Biostatistics 202B: Topic in Estimation
b) **Dr.P.H. Written Qualifying Examination:**
This exam is offered in September just before the beginning of fall classes. Students would generally take the exam after completing necessary coursework, which typically occurs by the beginning of either, their 3rd or 4th year of graduate study. The scope of the exam includes material from the following courses: Biostatistics 200B, 200C, M215, 250A, 250B, M215, 406, as well as all material covered by the Dr.P.H. Preliminary Exam.

3. Breadth Requirement
   a) Students must take a minimum of 24 units, selected with the consent of the academic advisor, in the 200 or 400 level courses from at least two Fielding School of Public Health departments other than Biostatistics.
   b) The School also requires students to select an additional area of concentration. Biostatistic students fulfill this requirement by enrolling in Biostatistics 409 (doctoral statistical consulting seminar: field training course) for 3 consecutive quarters. This requirement must be met prior to advancement to candidacy.

4. Doctoral Seminar
   All doctoral students must register for Biostatistics 245, advanced seminar, every quarter and attend regular weekly seminars scheduled by the Department. At least once each year, each student will present a seminar.

5. Oral Examinations and Dissertation
   a) Oral Qualifying Examination
      The student’s understanding of statistical theory and his/her ability to apply this knowledge to problems in health research is evaluated in this oral examination. The proposed dissertation topic is also reviewed. Passing of this examination is required before a student is officially advanced to candidacy. A failed examination may be repeated once on the recommendation of the committee.
   b) Dissertation and Defense
      After successfully completing a dissertation under the guidance of a Biostatistics faculty member, an oral examination defending the dissertation is required. A failed examination may be repeated once on the recommendation of the committee.

Required courses toward the degree **MUST** be taken on a letter grade basis (except Biostat 409 & 245).
# 2014-2015 Biostatistics Class Schedule

<table>
<thead>
<tr>
<th>Fall 2014</th>
<th>Instructor</th>
<th>Time/Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biostat 100A</td>
<td>Introduction to Biostatistics</td>
<td>D. Gjertson</td>
</tr>
<tr>
<td>Biostat 110A</td>
<td>Basic Biostatistics</td>
<td>R. Brookmeyer</td>
</tr>
<tr>
<td>Biostat 200B</td>
<td>Biostatistics</td>
<td>T. Belin</td>
</tr>
<tr>
<td>Biostat 201A</td>
<td>Topics in Applied Regression</td>
<td>T. Belin</td>
</tr>
<tr>
<td>Biostat 202A</td>
<td>Theoretical Principles of Biostatistics</td>
<td>D. Senturk</td>
</tr>
<tr>
<td>Biostat 213</td>
<td>Computational Methods</td>
<td>D. Telesca</td>
</tr>
<tr>
<td>Biostat M215</td>
<td>Survival Analysis</td>
<td>G. Li</td>
</tr>
<tr>
<td>Biostat 234</td>
<td>Applied Bayesian Inference</td>
<td>R. Weiss</td>
</tr>
<tr>
<td>Biostat 245</td>
<td>Advanced Seminar in Biostatistics</td>
<td>Dabrowska/Kim</td>
</tr>
<tr>
<td>Biostat 250A</td>
<td>Linear Statistical Models</td>
<td>W. Wong</td>
</tr>
<tr>
<td>Biostat 255</td>
<td>Advanced Topics &amp; Probability in Biostatistics</td>
<td>D. Dabrowska</td>
</tr>
<tr>
<td>Biostat 402B</td>
<td>Biostatistical Consulting</td>
<td>K. Nandy</td>
</tr>
<tr>
<td>Biostat 403A</td>
<td>Computer Management of Health Data</td>
<td>J. Sayre</td>
</tr>
<tr>
<td>Biostat M403B</td>
<td>Computer Management and Analysis of Health Data Using SAS</td>
<td>L. Smith</td>
</tr>
<tr>
<td>Biostat 409</td>
<td>Doctoral Consulting Seminar</td>
<td>D. Gjertson</td>
</tr>
</tbody>
</table>

**TENTATIVE**

<table>
<thead>
<tr>
<th>Winter 2015</th>
<th>Instructor</th>
<th>Time/Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biostat 100B</td>
<td>Introduction to Biostatistics</td>
<td>R. Brookmeyer</td>
</tr>
<tr>
<td>Biostat 110B</td>
<td>Basic Biostatistics</td>
<td>W. Cumberland</td>
</tr>
<tr>
<td>Biostat 200C</td>
<td>Biostatistics</td>
<td>W. Wong</td>
</tr>
<tr>
<td>Biostat 201B</td>
<td>Topics in Applied Regression</td>
<td>C. Sugar</td>
</tr>
<tr>
<td>Biostat 202B</td>
<td>Topics in Estimation</td>
<td>D. Senturk</td>
</tr>
<tr>
<td>Biostat 231</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>Biostat 237</td>
<td>Applied Genetic Modeling</td>
<td>J. Sinsheimer</td>
</tr>
<tr>
<td>Biostat 238</td>
<td>Methodology of Clinical Trial</td>
<td>G. Li</td>
</tr>
<tr>
<td>Biostat 245</td>
<td>Advanced Seminar in Biostatistics</td>
<td>G. Kim/D. Telesca</td>
</tr>
<tr>
<td>Biostat 250B</td>
<td>Linear Statistical Models</td>
<td>S. Horvath</td>
</tr>
<tr>
<td>Biostat 256</td>
<td>Advanced Methods of Mathematical Statistics</td>
<td>D. Dabrowska</td>
</tr>
<tr>
<td>Biostat 276</td>
<td>Inferential Techniques that Use Simulation</td>
<td>D. Telesca</td>
</tr>
<tr>
<td>Biostat 288</td>
<td>Seminar: Statistics in AIDS</td>
<td>R. Weiss</td>
</tr>
<tr>
<td>Biostat 402A</td>
<td>Principles of Biostatistical Consulting (2.0)</td>
<td>D. Gjertson</td>
</tr>
<tr>
<td>Biostat 402B</td>
<td>Biostatistical Consulting</td>
<td>F. Yu</td>
</tr>
<tr>
<td>Biostat 409</td>
<td>Doctoral Consulting Seminar</td>
<td>D. Gjertson</td>
</tr>
<tr>
<td>Biomath 203</td>
<td>Stochastic Models in Biology</td>
<td>K. Lange</td>
</tr>
</tbody>
</table>
Spring 2015

<table>
<thead>
<tr>
<th>Biostat 100A</th>
<th>Introduction to Biostatistics</th>
<th>M. Lee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biostat 200A</td>
<td>Biostatistics</td>
<td>C. Crespi</td>
</tr>
<tr>
<td>Biostat 230</td>
<td>Statistical Graphics</td>
<td>R. Weiss</td>
</tr>
<tr>
<td>Biostat 240</td>
<td>Master's Seminar &amp; Research Resources</td>
<td>T. Belin</td>
</tr>
<tr>
<td>Biostat 245</td>
<td>Advanced Seminar in Biostatistics</td>
<td>R. Brookmeyer</td>
</tr>
<tr>
<td>Biostat 251</td>
<td>Multivariate Biostatistics</td>
<td>D. Telesca</td>
</tr>
<tr>
<td>Biostat 277</td>
<td>Robustness and Modern Nonparametric</td>
<td>D. Dabrowska</td>
</tr>
<tr>
<td>Biostat 279</td>
<td>Optimal Design Theory and Application</td>
<td>W. Wong</td>
</tr>
<tr>
<td>Biostat 285</td>
<td>Advanced Topics: Recent Developments</td>
<td>Banerjee</td>
</tr>
<tr>
<td>Biostat 288</td>
<td>Seminar: Statistics in AIDS</td>
<td>C. Sugar</td>
</tr>
<tr>
<td>Biostat 402B</td>
<td>Biostatistical Consulting</td>
<td>M. Nuno</td>
</tr>
<tr>
<td>Biostat 406</td>
<td>Applied Multivariate Biostatistics</td>
<td>A. Afifi</td>
</tr>
<tr>
<td>Biostat 409</td>
<td>Doctoral Statistical Consulting Seminar</td>
<td>G. Gjertson</td>
</tr>
<tr>
<td>Biostat 410</td>
<td>Statistical Methods in Clinical Trials</td>
<td>M. Lee</td>
</tr>
</tbody>
</table>

The courses below may be used as a Special Topic.

You will need approval from your academic advisor and Department Chair. Approval (via blue petition) should be obtained before enrolling in the course not after.

Fall
M232A - Statistical Modeling and Learning in Vision and Science (4)
M243 - Logic, Causation, and Probability (4)
271 - Probabilistic Models of Visual Cortex (4)

Winter
M232A - Statistical Modeling and Learning in Vision and Science (4)
238 - Vision as Bayesian Inference (4)
242 - Multivariate Analysis with Latent Variables (4)

Spring
218 - Statistical Analysis of Networks (4)
232B - Statistical Computing and Inference in Vision and Image Science (4)
261 - Introduction to Pattern Recognition and Machine Learning (4)
**UCLA Calendar**

**Highlights from UCLA Annual Calendar 2014-2015**

Students are responsible for observing the following dates and deadlines as published by the Registrar's Office. Anything submitted or requested as an exception to a published deadline is subject to a PENALTY fee.

The calendar below and other academic calendars up to the year 2016-2017 are available online at: [http://www.registrar.ucla.edu/calendar/](http://www.registrar.ucla.edu/calendar/)

---

### Fall Quarter 2014

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarter begins</td>
<td>Monday, September 29</td>
</tr>
<tr>
<td>Instruction begins</td>
<td>Thursday, October 2</td>
</tr>
<tr>
<td>Study List deadline (becomes official)</td>
<td>Friday, October 17</td>
</tr>
<tr>
<td>Veterans Day holiday</td>
<td>Tuesday, November 11</td>
</tr>
<tr>
<td>Thanksgiving holiday</td>
<td>Thursday-Friday, November 27-28</td>
</tr>
<tr>
<td>Instruction ends</td>
<td>Friday, December 12</td>
</tr>
<tr>
<td>Common final exams</td>
<td>Saturday-Sunday, December 13-14</td>
</tr>
<tr>
<td>Final examinations</td>
<td>Monday-Friday, December 15-19</td>
</tr>
<tr>
<td>Quarter ends</td>
<td>Friday, December 19</td>
</tr>
<tr>
<td>Christmas holiday</td>
<td>Wednesday-Thursday, December 24-25</td>
</tr>
<tr>
<td>New Year's holiday</td>
<td>Wednesday-Thursday, December 31-January 1</td>
</tr>
<tr>
<td>Winter campus closure (tentative)</td>
<td>December 26, 29, 30, January 2</td>
</tr>
</tbody>
</table>

### Winter Quarter 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarter begins</td>
<td>Monday, January 5</td>
</tr>
<tr>
<td>Instruction begins</td>
<td>Monday, January 5</td>
</tr>
<tr>
<td>Study List deadline (becomes official)</td>
<td>Friday, January 16</td>
</tr>
<tr>
<td>Martin Luther King, Jr, holiday</td>
<td>Monday, January 19</td>
</tr>
<tr>
<td>Presidents' Day holiday</td>
<td>Monday, February 16</td>
</tr>
<tr>
<td>Instruction ends</td>
<td>Friday, March 13</td>
</tr>
<tr>
<td>Common final exams</td>
<td>Saturday-Sunday, March 14-15</td>
</tr>
<tr>
<td>Final examinations</td>
<td>Monday-Friday, March 16-20</td>
</tr>
<tr>
<td>Quarter ends</td>
<td>Friday, March 20</td>
</tr>
</tbody>
</table>

### Spring Quarter 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarter begins</td>
<td>Wednesday, March 25</td>
</tr>
<tr>
<td>Cesar Chavez holiday</td>
<td>Friday, March 27</td>
</tr>
<tr>
<td>Instruction begins</td>
<td>Monday, March 30</td>
</tr>
<tr>
<td>Study List deadline (becomes official)</td>
<td>Friday, April 10</td>
</tr>
<tr>
<td>Memorial Day holiday</td>
<td>Monday, May 25</td>
</tr>
<tr>
<td>Instruction ends</td>
<td>Friday, June 5</td>
</tr>
<tr>
<td>Common final exams</td>
<td>Saturday-Sunday, June 6-7</td>
</tr>
<tr>
<td>Final examinations</td>
<td>Monday-Friday, June 8-12</td>
</tr>
<tr>
<td>Quarter ends</td>
<td>Friday, June 12</td>
</tr>
</tbody>
</table>
STUDENT AFFAIRS

BIOSTATISTICS STUDENT AFFAIRS OFFICE
The Student Affairs Officer for the Biostatistics Department is Roxy Naranjo. Her office room number is 51-236A CHS, phone number is (310) 267-2186 and her email is rlnaranjo@ph.ucla.edu. If you have any questions pertaining to your graduate study here at UCLA, do not hesitate to email her or stop by the office during office hours.

FIELDING SCHOOL OF PUBLIC HEALTH STUDENT AFFAIRS OFFICE
The school-wide Student Affairs Office provides oversight and guidance of school-wide and departmental graduate program affairs, including admissions processing, degree processing, class scheduling, funding, orientation and graduation preparations, and general counseling to prospective, new and continuing students. Hours and Location: Monday-Friday 10:00am-3:00pm. Room A1-269 Center for Health Sciences (A-floor). Phone Number: (310) 825-5524.

COURSE SCHEDULE AND CLASSROOMS
Please visit http://www.registrar.ucla.edu/schedule/schedulehome.aspx for course schedule and room assignments.

Registration
Enrollment and Degree Services
1113 Murphy Hall
(310) 825-1091
http://www.registrar.ucla.edu
Registration consists of paying fees and enrolling in classes.
1. Registration fees and other University charges are due the 20th of each month. BAR (Billing and Receivable) accounts can be viewed through MY UCLA.
2. Enrollment in classes is completed via MY UCLA.
Students must complete both processes by the established deadlines to be officially registered and enrolled for the term.

Graduate students must be either registered & enrolled or on an official leave of absence every term until their degrees are awarded. As an exception, certain graduate students may be eligible to pay the filing fee (see below). Failure to register or be on an official leave of absence for any term constitutes withdrawal from UCLA.

Paying Fees/Non-Resident Tuition
Your registration fees (and non-resident tuition, if applicable) are due via your BAR account by September 20 (fall quarter), December 20 (winter quarter) and March 20 (spring quarter). Credit card payments may be made online using MY UCLA. If you do not see your fees posted on your BAR account by the 5th of the month, inquire with the Office of the Registrar. If registration fees are not paid in full by the payment deadline, a $50 late registration fee is assessed and classes are dropped in accordance with the drop class deadline. If you enroll in classes and pay registration fees after Friday of the second week of classes, both the $50 late registration fee and a $50 late Study List fee are assessed.

More details on fee payment, enrollment procedures, and deadlines are in the Registrars website at http://www.registrar.ucla.edu/schedule/.
eBill
BAR accounts are administered electronically (eBill) through MY UCLA. Monthly financial activity is displayed for the current month as well as past account activity for the last 24 months. MY UCLA also includes a link to the Student Financial Services website (http://www.sfs.ucla.edu) where students can find important communications from the University regarding registration and University policies. Students can pay their BAR account electronically using Visa, MasterCard, PULSE, NYSE, STAR, Discover, or American Express. Students can also print a remittance document from the eBill webpage and mail payments with a check or money order. UCLA converts checks into electronic payments.

Enrolling in Classes
The Schedule of Classes (http://www.registrar.ucla.edu/schedule/) contains listings of class times, meeting rooms, instructors, and all information necessary for enrolling in classes. Use the Schedule and academic counseling to assemble a program of courses.

MY UCLA Enrollment
Students enroll in classes at My UCLA. The site walks students through the enrollment procedure. Students are assigned specific times—called appointments—when they are allowed to enroll. Use MY UCLA to determine enrollment appointments.

Also use MY UCLA for other enrollment-related tasks, such as adding, dropping, or exchanging classes, signing onto the wait list for a class and checking waitlist status, or changing the grading basis for a class.

Enrollment Deadlines
The deadlines are always on Friday of the following weeks of every quarter:
Week 2: Enrollment in all coursework.
Week 3: Fee charged for changes regarding adds, drops, and grading basis.
Week 10: Additional fee charged for adds and for drops and grading basis changes.
After week 10, requesting retroactive add or drop any courses is a long and complicated procedure with NO guarantee of approval. Make sure you check your enrollment and print out your study list so you can check the correct courses and faculty.
LEAVE OF ABSENCE
Continuing graduate students in good academic standing (3.0 GPA or above) who have completed at least one quarter of academic residence at UCLA, may petition to take a leave of absence. The leave must be approved by the student's home Department and the Graduate Division. Graduate students are allowed a maximum of three quarters of official leave of absence.

Federal policy governing students on F-1 and J-1 visas restricts leaves of absence to certain conditions. Therefore, the Dashew Center for International Students and Scholars, in consultation with the Graduate Division, individually evaluates each international graduate student request for a leave of absence to determine that it meets federal (and University) eligibility criteria.

Students on approved leave of absence are not permitted to use faculty time or make use of University facilities for more than 12 hours since their last registration and are not eligible for apprentice personnel employment or other services normally available to registered students. There is no need to apply for readmission, since the approved leave is for readmission to a specific term. The Registrar’s Office notifies students about registration information for the returning term.

To petition for a leave of absence, students must fill out a “Leave of Absence Request” form, obtain the appropriate signatures, and submit it to the SPH Student Affairs Office. For more details on the University’s Leave of Absence policy, visit: http://www.gdnet.ucla.edu/gasaa/library/loa.htm

FILING FEE
To be eligible to use the Filing Fee in lieu of registration, all formal requirements for the degree except for taking the final oral examination (if required), filing the dissertation/thesis or taking the comprehensive exam must be met before the first day of instruction of the term indicated below. Students may not use the Filing Fee unless they were registered for the previous academic term.
For more information and form visit: https://grad.ucla.edu/gasaa/etd/filingfee.htm

Master Students - The Filing Fee may be used in lieu of registration if all formal requirements for the degree, except for filing the thesis or taking the comprehensive examination, are met prior to the first day of instruction of the term.

Doctoral Students - The Filing Fee may be used in lieu of registration if all formal requirements for the degree, except for taking the final oral examination (if required) and filing the dissertation, are met prior to the first day of instruction of the term. Doctoral students may use the Filing Fee Application only if they were registered for the previous academic term.

OFFICIAL DOCUMENTS AND FORMS FROM THE UNIVERSITY AND SCHOOL
You will receive many documents from the University stating deadlines, offering opportunities, etc. It is your responsibility to observe the deadlines, and take any action that is required. This is especially important for work-study, financial aid, traineeships, filing deadlines, etc.

For the most current deadlines and for the class schedule go to http://www.registrar.ucla.edu/calendar/. For official graduate academic information and resources go to http://www.gdnet.ucla.edu/

Datasheet
Students must complete a datasheet each quarter, until graduation. The data sheet will be emailed each quarter by the Central Student Affairs office with the datasheet each quarter. Failure to complete this results in academic hold.
Blue petitions
A blue petition is a form submitted to explain a student’s need or desire to be exempted from any rule or regulation of the University. It is the only way to obtain formal approval from the department, the School, the Registrar or whoever has authority over the particular request. Submit all blue petitions as soon as possible during your career at UCLA.

ACADEMIC ADVISING
Advising
Students are assigned a faculty advisor prior to the beginning of their academic program. Students should initially contact their advisors to discuss their course of study and thereafter should stay in contact on a regular basis. Students are expected to meet with their advisors at least once per quarter to discuss progress, problems, and employment needs.

Students may change advisors. A blue student petition should be used for this request. Approval by the both faculty member and the Biostatistics Department Chair must be obtained. The petition is then submitted to the Public Health Student Affairs Office.

ADVANCEMENT TO CANDIDACY
Master’s Degree
Students who wish to graduate in the spring quarter must petition for advancement to candidacy prior to the deadline. This deadline will be announced at the graduation workshop, which will be held in February. Advancement to candidacy is a requirement for all M.S. and M.P.H. degree candidates. If you miss the workshop, petitions for advancement to candidacy can be picked up in the Student Affairs Office, Room A1-269 CHS. The forms must be completed and returned to the Student Affairs Office. Please be sure to complete all required information and follow special instructions per the direction on the forms or by the Student Affairs Office Staff.

Students who wish to graduate in the fall or winter quarters, must petition for Advancement to Candidacy prior to the end of the second week of the chosen quarter.

The Student Affairs Office regularly posts the specific deadlines.

Doctoral Degree
Advancement to candidacy is also a requirement for students in the Ph.D. and Dr.P.H. programs. To obtain the necessary forms and policy on how to officially form your Doctoral Dissertation Committee visit: http://www.gdnet.ucla.edu/gasaa/library/degreeinfo.htm#Doctoral

WRITTEN EXAMINATIONS
Master of Science Students
The MS Comprehensive exam is given in the beginning of the fall quarter in the 2nd year of study.

MPH Students
Comprehensive exams for second year MPH students are given near the end of the spring quarter (the Tuesday after Memorial Day). Past examinations are considered public. You can arrange to have a copy by emailing Roxy Naranjo at rlaranjo@ph.ucla.edu.
Doctoral Students
Biostatistics Ph.D. Preliminary Exam and the Ph.D. Qualifying Exam are given at the beginning of fall quarter.

Biostatistics Dr.P.H. Preliminary Exam and the Dr.P.H. Qualifying Exam are given at the beginning of fall quarter.

Past examinations are considered public. You can request copies by emailing Roxy Naranjo at rlnaranjo@ph.ucla.edu.

Courses
There are very specific course requirements for our Master’s degrees. The final authority on all course requirements is the Graduate Division, and the requirements are listed on the Graduate Division web page under “Department and Majors” (“Biostatistics” heading for MS and PhD students and “Public Health” heading for MPH and DrPH students) at http://www.gdnet.ucla.edu/current.html; according to the year in which you enter the program. However, the Department Chairman can request exemptions under suitable situations. The information in this handout is informal. Advisors are expected to advise you of the requirements, but sometimes there is an area of uncertainty and you may need to clarify the problem with a blue petition.

Add/Drop courses - To enroll, add, or drop classes, students use MY UCLA. If a class is closed, or restricted, you may attempt to add the class after obtaining a Permission to Enroll Number (PTE #) from the instructor. Make sure that you have the correct 9-digit course ID number.

Course Waivers
M.P.H and Dr. P.H. students should see the schedule below for course waiver exams:

- ComHlth 100
- EvHlt 100
- Epidem 100
- Hlt Pol & Mgmt 100

For the most updated information and to sign up refer to your Public Health orientation packet and/or contact the respective departments.

To waive Biostatistics core courses, students must (1) complete a blue petition, (2) show proof that you have taken equivalent course(s) by attaching transcript(s) and syllabi to the petition and (3) pass the waiver exam.

Grading
Grade Points
Grade points per unit are assigned by the Registrar as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>B+</td>
<td>3.7</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
<tr>
<td>NP</td>
<td>0.0</td>
</tr>
<tr>
<td>U</td>
<td>0.0</td>
</tr>
</tbody>
</table>
UCLA grades for graduate students, are A, B, C, F, and I. Grade point averages are computed on the basis of 4 points for an “A”, 3 points for a “B”, 2 points for a “C”, and 0 points for an “F”. You must maintain at least a 3.0 average to avoid probation. You must also have a 3.0 average in the required courses to graduate. If you are on probation for two consecutive quarters, you are subject to dismissal from the University.

The grade “I” (Incomplete) may be assigned if you did not complete all of the course requirements and if the material you did complete was of passing quality. You must arrange for the “I” before the end of the course with the course instructor. You should have a written agreement with the instructor detailing what is needed to complete the course. Removal of the ‘I’ from the transcript, and replacement with a grade will occur upon the students’ satisfactory completion of the course work by the end of the next full term in academic residence. If the work is not completed by the next full term in residence the “I” automatically lapses to an “F” or “U” grade as appropriate.

Your grades are available through the MY UCLA Online System. After you have logged in, choose Degree Progress/Grade Report (Graduate option). Your GPA will not be updated until the end of the grading cycle, approximately 3 weeks after the quarter is over.

**STANDARDS AND PROCEDURES FOR GRADUATE STUDY AT UCLA**

General regulations concerning graduate courses, standards of scholarship, disqualifications, appeals, leaves of absence, normal progress toward degree, withdrawals and other matters can be found at: [http://www.gdnet.ucla.edu/gasaa/library/spfgs.pdf](http://www.gdnet.ucla.edu/gasaa/library/spfgs.pdf)

The site also provides detailed information and sets forth general policies regarding completion of degree requirements, master’s and doctoral committees, examinations and foreign language requirements.

**Study List**

UCLA refers to your class schedule as a “study list”. All UCLA students are required to have a “study list on file” - be enrolled in at least one unit - by the end of the 2nd week of classes. Any student who is not enrolled in at least one unit by the end of the 2nd week of classes will be assessed a $50 late study list fee when they attempt to enroll. Please be aware that this fee will be charged even if you paid the $50 late registration fee. After the 2nd week of classes, your student record will be “locked” out of enrollment, and you will have to (1) go to the Student Affairs Office to pick up a form, (2) get written instructors’ permission to enroll in each class at this late date and (3) submit the from, in person, to the Registrar’s Office in Murphy Hall. You will not be able to process any enrollment activities until your student record is unlocked. You can go to MY UCLA online to view your study list. Note: you can print your study list to provide proof of enrollment in class. You should check your study list each quarter to make sure that you are enrolled in classes.

**Transcripts**

One free unofficial student copy of your transcript may be obtained each quarter from the Registrar’s Office in Murphy Hall. Official transcripts for regular and summer sessions* can be ordered online through MY UCLA using a UCLA Logon ID. Official transcripts can also be ordered in person at 1113 Murphy Hall or by mail using a Transcript Order form.

**THESIS AND DISSERTATION FILING FOR DOCTORAL STUDENTS**

Visit the Graduate Division website for policy and procedures to form your Doctoral Dissertation Committee and Form needed at [http://www.gdnet.ucla.edu/gasaa/library/degreeinfo.htm#Doctoral](http://www.gdnet.ucla.edu/gasaa/library/degreeinfo.htm#Doctoral)
GRADUATE STUDENT LIFE AND RESOURCES

There are many ways to enrich your time at UCLA. There are many different cultures represented on campus, in the School, and in the Department. Explore these. The School has an active student association, the Public Health Student Association (PHSA). This is a good way of learning about other Departments, and that they have many of the same concerns that we do.

The Department has three big social events each year. Early in the Fall Quarter, the Faculty sponsored a Welcome-to-UCLA party at the Sunset Canyon Recreation Center on campus. This is a good way to come and meet your fellow students, faculty and families. We have a pot-luck Holiday Party in which everyone brings food to share. This is held just before or the Friday of the final exams of the fall quarter. In late May or early June, a student-organized spring picnic is held. It’s a celebration of a good year (we hope) coming to an end. We very much want you to come to these parties - they let all of us get to know each other in a less formal atmosphere.

The Fielding School of Public Health is looking for student representatives to serve on various school-wide and departmental committees. If you are interest, please contact Dr. Cumberland by email (wgc@ucla.edu).

The Graduate Students Association of UCLA is the graduate student government for the nearly 10,000 graduate and professional students at the University of California, Los Angeles. GSA provides services and programs for UCLA graduate and professional students, and represents those students in administrative, campus, and statewide affairs. Every graduate or professional student at UCLA is automatically a member of the Graduate Students Association. In part, this means that $13.00 of each graduate or professional student's quarterly fees goes to GSA. These funds are used to provide programs and services for graduate and professional students at UCLA. There are many opportunities for participation in GSA-related activities, including departmental graduate representation, councils, forum, or running for one of the three GSA officer positions elected every spring quarter. Some representative appointments include stipends. For more information go to http://gsa.asucla.ucla.edu/ or call (310) 206-8512, email: gsa@asucla.ucla.edu

Safety
The Evening Van Service provides a safe means of transportation around campus during the evening hours. The vans provide transportation between campus buildings, on-campus housing and nearby residential areas. The service is free of charge and available to all UCLA students, staff, faculty and visitors. For added safety, the vans are driven by Community Service Officers (CSOs) who carry two-way radios, providing a direct link to the UCLA Police Department.

UCLA CSO Programs
Email: cso@ucpd.ucla.edu | Phone: (310) 825-4774, http://map.ais.ucla.edu/go/1001008/
STUDENT HEALTH SERVICES

Arthur Ashe Student Health and Wellness Center
All registered graduate students may use the Arthur Ashe Student Health and Wellness Center, an outpatient clinic geared to the special needs of students at UCLA. The Ashe Center offers a full range of clinical and support services, most of which are prepaid by student registration fees. The clinical staff is comprised of highly qualified doctors, nurse practitioners, and nurses.

http://www.studenthealth.ucla.edu/default.aspx

Medical Insurance Requirement / Waiving SHIP
As a condition of registration, the University requires that all graduate and professional students, including international students on non-immigrant visas, have medical insurance coverage that meets the University’s minimum requirements. Contact the Insurance Office on the fourth floor of the Arthur Ashe Student Health and Wellness Center for details regarding the campus Student Health Insurance Plan (SHIP) or regarding the campus minimum requirements.

Please visit the Arthur Ashe Health Center Website for more information regarding waiving SHIP.

http://www.studenthealth.ucla.edu/CustPages/Insurance.aspx

The Counseling Center – Counseling & Psychological Services
The cornerstone of CAPS services is our confidential individualized therapy and psychiatric care, provided by a diverse and multiculturally competent professional staff. CAPS is a warmly welcoming environment located centrally on the UCLA campus.

In addition to individual services, CAPS provides a range of programs to promote mental health, emotional resilience and wellness throughout the campus community. Our counselors work with students, parents, staff and faculty during orientation programs, in classes, at health and wellness fairs, in residence halls, at fraternities and sororities, in student community groups, and of course in our counseling center at John Wooden Center West.

Our Wellness Skills Program provides wellness workshops, time-limited skills development groups, biofeedback training, and wellness program consultations at various locations across campus.

Our counselors meet with faculty, staff and students across the campus to provide training on emotional health and wellness, and identifying and referring students with compromised stress resilience. Our 24-hour telephone access line (310-825-0768) allows students, parents and other members of our campus community to receive counseling and consultation in the use of CAPS’s many offerings.

John Wooden Center West
221 Westwood Plaza
Box 951556
Los Angeles, CA 90095-1556
(310) 825-0768

Hours of Operation
Monday through Friday
8:00 am to 5:00 pm
(Except for University holidays)

Crisis counseling available 24-hours a day by phone.

http://www.counseling.ucla.edu/default.htm
UCLA WRITING PROGRAMS
Since its founding in 1980, Writing Programs has played an important role in UCLA’s undergraduate mission. According to the General Catalog, “programs in the Humanities teach students to interpret texts with an informed sensitivity, to evaluate ideas critically, to write clearly and effectively about them, and to be able to question and discuss them with their peers.” Because we are UCLA’s chief resource for writing instruction, all Writing Programs courses help the university achieve these goals.

146 Humanities Building (next to the flagpole, formerly Kinsey Hall)
P.O. Box 951384
Los Angeles, CA 90095-1389
Campus Mail Code: 138405
Tel: 310.206.1145 Fax: 310.267.2224

Office Hours: 8:00 am - 5:00 pm

Student Affairs Officer: Catharine McGraw
Student Activities Center, Suite B11 (310) 267-4805
http://www.wp.ucla.edu/

CAREER DEVELOPMENT
The UCLA School of Public Health Career Services Office is located on the A floor of the School of Public Health.

Arlecia Powell-Halley, M.S.
Career Services Office
UCLA School of Public Health
Box 951772
Los Angeles, CA 90095-1772
Phone: 310-206-7158
Fax: 310-825-0472
Email: aphalley@ph.ucla.edu

COMPUTER AND TECHNICAL SERVICES
Academic Technology Services (ATS)
www.ats.ucla.edu
5308 Math Sciences Building
(310) 825-6635
frontdeskoi.t.ucla.edu

ENGLISH AS A SECOND LANGUAGE
All non-native speakers of English new to UCLA are required to fulfill UCLA ESL requirements by taking the English as a Second Language Placement Exam (ESLPE). Based upon performance on this examination, students may be exempt from enrolling in UCLA ESL classes, or may be required to complete one or more courses in the English 33 series. Please do not delay as failure to sit for the ESLPE results in a hold on student records. ESL course(s) are designed and intended to facilitate your studies here at UCLA. If you do not fulfill your ESL requirement, you will not be permitted to graduate. Students may only take the exam twice. Graduate students wishing to take a second exam must wait at least one quarter before retaking the placement exam. Retakes during the same quarter will not be recognized and the second of the two scores will be used for placement decision. Graduate students, who plan to work as teaching assistants (TAs) and
are nonnative English-speaking international students, are required to take the Test of Oral Proficiency (TOP), which is administered by the Office of Instructional Development.

Please refer to http://www.wp.ucla.edu/ for more information.

Students who hold a bachelor’s or higher degree from a university located in the United States or in another country in which English is both the spoken language and the medium of instruction, or who have completed at least two years of full-time study at such an institution, are exempted from the ESLPE.

**CALIFORNIA RESIDENCY**

Domestic students who are not California residents will need to establish residency to avoid assessment of nonresident tuition in subsequent years. In order to establish your residency, certain requirements must be met. For the complete details on establishing California Residency, please refer to the Registrar’s web page at [http://www.registrar.ucla.edu/faq/residencefaq.htm](http://www.registrar.ucla.edu/faq/residencefaq.htm) or call the Residence Deputy at (310) 825-1091, option 5. This is very important. Otherwise, you may have to begin paying non-resident tuition during your second year.

**COMPUTER FACILITIES/ACCESS**

The UCLA Biomedical Library: Technology & Learning Center (TLC) is the main drop-in, general computer use for Public Health students. It is located in the Biomedical Library (entrance 12-077 CHS). The TLC is open during the same hours as the library. Hours can be found posted on the front door of the Biomedical Library or at [http://www.library.ucla.edu/hours](http://www.library.ucla.edu/hours), click “Biomedical Library”.

Public Health also has an instructional computer lab which is located in the Center for Health Sciences A1-241. The lab hours are Monday through Friday 8AM to 5PM (closed on Saturdays and Sundays). This lab is not available for drop-in use.

The Biostatistics Department is very excited to offer two newly renovated office space rooms for biostatistics graduate students, A1-228 CHS and A1-227 CHS. A1-227 CHS is only available to students who have passed the written comprehensive doctoral exam. For more information regarding assignment to cubicle in any of these rooms see Student Orientation Package or Student Affairs Officer to request an application/information packet.

The Biostatistics Department has access to Hoffman2 Cluster for High-throughput computing. Please email Roxy Naranjo at rlnaranjo@ph.ucla.edu for more information.

**BRUIN ONLine (BOL)**

Bruin OnLine (BOL) is a collection of services that provides UCLA students, faculty, and staff with e-mail, web hosting services, network connectivity (including wireless), and free software and support.

<table>
<thead>
<tr>
<th>Telephone technical support</th>
<th>Email technical support</th>
<th>Walk-in consulting</th>
</tr>
</thead>
<tbody>
<tr>
<td>(310) 267-4357</td>
<td><a href="mailto:consult@ucla.edu">consult@ucla.edu</a></td>
<td>Kerckhoff Hall, Suite 124</td>
</tr>
<tr>
<td></td>
<td>or fill out our web help form</td>
<td><a href="http://www.bol.ucla.edu">www.bol.ucla.edu</a></td>
</tr>
</tbody>
</table>

**MyUCLA**

MyUCLA is a customized portal web page where students can access real-time class schedules, grades, campus appointments, traffic and weather information, check their UCLA e-mail account and link to campus events and resources.

www.my.ucla.edu
**BRUIN CARD**

BruinCard is the official UCLA identification card. Many services are accessible with this card, including access to campus libraries, athletic facilities, labs, and dorms. The card can also act as a debit card for purchasing food, books, and supplies from many UCLA student stores and eating facilities around campus. Photo identification is free to all students. The replacement cost for lost/stolen cards is $23.50 charged to your BAR account.

To report a lost or stolen card you should:

1. Online - click **Suspend Card** on the left menu at website: https://secure.bruincard.ucla.edu/bcw/web/Home.aspx
2. Call 310-825-2336 or 310-825-4775.
3. Email bruincard@finance.ucla.edu

**Campus Location and Hours:**
123 Kerckhoff Hall
9am - 4pm Monday-Friday

For more information go to http://www.bruincard.ucla.edu

**STUDENT MAIL/ANNOUNCEMENTS**

Biostatistics Students Mail Folders are located in 51-254 CHS as you walk into the room. Announcements and mail arriving at the Biostatistics office will be placed in your folder. Students should check their mail folders regularly.

Do **NOT** have personal mail sent to the department.

Also, students should check the bulletin boards outside the Department office for information on courses, seminars, workshops, fellowships, scholarships and job bulletins.

**Borrowing a CLICC Laptop**

Currently enrolled UCLA Students, currently employed UCLA Faculty and Staff Members, may checkout a laptop using their valid UCLA Logon and Password. Laptop borrowing privileges may be revoked or suspended based on violations of policies at the discretion of Library Administration. Please visit http://www.library.ucla.edu/service/lcs/computing-locations-equipment for CLICC laptop lending locations.
Office for Students with Disabilities (OSD)

How to register with the OSD.

To register with OSD, please call (310) 825-1501, and we will make an appointment for you to meet with a disability specialist. If you are unsure if you qualify, we will explore with you what the issues are and make recommendations. All services provided by the OSD are free of charge, and information is kept strictly confidential. In order to register with the OSD, students fill out a general information form and provide current documentation of their disability/medical condition.

Administrative Offices - A255 Murphy Hall
Hours: Monday - Friday, 8am - 5pm
(310) 825-1501
(310) 825-9656 (FAX)
(310) 825-2263 (Van Service)
(310) 206-6083 (Telephone Device for the Deaf)

OSD Proctoring Center - A242 Murphy Hall
Hours: Monday - Friday, 7am - 4pm
(310) 825-2651
(310) 267-2008 (FAX)

Mailing Address
UCLA Office for Students with Disabilities
Box 951426
Los Angeles, CA 90095-1426

http://www.osd.ucla.edu/

Parking, Transportation & Shuttle Services

Public Transportation
Refer to the website below to obtain more information regarding the ways to get around UCLA.
https://main.transportation.ucla.edu/

Parking
To obtain quarterly deadline dates and information on how to apply for a parking permit, van pool, ride share, GoBruin bus program and other available transportation services, go to: https://main.transportation.ucla.edu/campus-parking. Their office is located at 555 Westwood Plaza, corner of Westwood Blvd. & Strathmore Avenue (in front of Parking Structure 8, Level 2).

Campus Shuttles
The campus shuttle system incorporates the use of buses and vans that are clean, wheelchair accessible and well-equipped with air-conditioning and comfortable seating.

Campus Express
The Campus Express shuttle travels in a counter-clockwise direction providing round-trip service from: Weyburn Terrace and Lot 36 in the southwest corner of campus, through Westwood and the University to Macgowan Hall turnaround in the northeast region of campus.
Campus Express Northbound Bus Stops
Campus Express Southbound Bus Stops

Weyburn Terrace  Macgowan Hall
Lot 36  Murphy Hall
NPI  Structure 2 / Molecular Science
Structure 2  Gonda Research Facility
Murphy Hall  Medical Plaza (adjacent to Med. Plaza 100)
Macgowan Hall  Weyburn Terrace

The shuttle bus operates Monday through Friday beginning Thursday, October 2, 2014 and ending Friday, June 12, 2015. Due to holidays, the shuttle bus service will not be offered on the following days:

- Tuesday, November 11 - Veterans Day
- Thursday and Friday, November 27 and 28 - Thanksgiving
- Wednesday December 24 through Friday January 2, 2015 - Winter Closure
- Monday, January 19 - Martin Luther King Jr. Day
- Monday, February 16 - President’s Day
- Monday, March 23 through Friday March 27 - Spring Break
- Monday, May 25 - Memorial Day

The bus also stops at NPI and Life Sciences at Charles E. Young and Tiverton Drives to let passengers off.

**Note:** Occasional delays in shuttle bus service may occur due to construction, traffic, weather, mechanical problems, etc. This schedule is subject to change.

For the latest shuttle bus information, such as traffic conditions, Lost & Found, and service delays, please call UCLA Transit Operations at 310-206-2908.

**EMPLOYMENT & FINANCIAL AID**

Aid comes in many forms. Besides government and University of California financial aid, students may be eligible for funds directly from the Department. Departmental aid is more merit-based than need-based. Outright gifts such as fellowships and fee waivers are harder to get than a research and teaching assistantship, which usually pays a portion of the fees. Most good students can expect a combination of aid. The one form of aid that is extremely competitive is the allocation of non-resident tuition waivers to foreign students. Once here, students in good academic standing will get continued support.

Students who are receiving financial support from the department must carry a full load of courses, 12 or more units, each quarter. The courses must be approved by the student’s academic advisor. Students who drop course(s) or otherwise do not comply with this requirement may be at risk of losing their financial support from the department.
Employment
Practically all doctoral students are able to find employment in the form of a stipend, fellowships, or other work related to their field (e.g. Readers, TA’s, Researchers). Two positions, GSR (Graduate Student Researcher) and special reader carry fee remissions in addition to the standard pay. In some cases, GSR can also qualify for non-resident tuition remission.

If you are seeking employment as a special reader, you should apply at least six weeks in advance to ensure that you receive full consideration for the following quarter. The applications are on the department website at http://www.biostat.ucla.edu/current-students/student-employment Applications must be updated every quarter. They will be destroyed after 90 days. Submit your application(s) to Roxy Naranjo via email at rlnaranjo@ph.ucla.

Special Opportunities
We have an AIDS training grant in the area of AIDS research. Students supported by this grant (US citizens and permanent residents) receive a stipend plus tuition and fees. UCLA is a major center for AIDS research, and the department is one of the few with such training opportunities. Other support for outstanding students includes nonresident tuition waivers and campus fellowship funds. Some federal public health traineeships are available to support U.S. citizens and permanent residents. Through the Health Career Opportunity Program, the University has special scholarship funds to support minority students who have high potential for graduate study.

Work study and other need based support
Apply directly to the Financial Aid Office (http://www.fao.ucla.edu/) for financial aid, and the Career Center (http://www.career.ucla.edu/) for work study opportunities.

LOCKERS
Lockers within the Fielding School of Public Health (on the A-level, and from 2nd through 7th floors) are available to all Public Health Students. Locker assignments are handled by the Fielding School of Public Health Dean’s Office in 16-035 CHS. Lockers are assigned on a first come basis. Please refer to the locker assignment handout in your orientation folder for the policy and procedure.
FREQUENTLY USED FORMS
Below is a list of the most commonly used forms while you conduct your Graduate Studies at UCLA – Fielding School of Public Health -Biostatistics Department.

Forms are available at www.gdnet.ucla.edu or at the Department SAO office, CHS 51-236A.

1. Filing Fee Application (GDNET)
2. Blue Petition (SAO office)
3. Form 1 – Petition for Establishment of 3rd Field For the Ph.D. in Biostatistics (SAO office)
5. Form 2B – Report on the Ph.D. Advanced Qualifying Examination in Biostatistics (SAO office)
7. Form 1 – Petition for Establishment of Additional Area of Concentration/Consulting Laboratory for the Dr.PH in Biostatistics (SAO office)
8. Form 2A – Report on the Dr.PH Preliminary Examination in Biostatistics (SAO office)
9. Form 2B – Report on the Written Qualifying Examination for the Dr.PH in Biostatistics (SAO office)
10. Form 3 – Report on the Competition of Requirement in the Additional Are of Concentration/Consulting Laboratory for the Dr.PH Degree (SAO office)
11. Nomination of Doctoral Committee (GDNET)
12. Leave of Absence Request Form (GDNET)
13. MPH Report on Field Studies (SAO office)
14. Culminating Experience for the MPH in Biostatistics (SAO office)
It is the individual STUDENT’S RESPONSIBILITY to meet all requirements and deadlines.

The Biostatistics faculty and staff are here to assist you.

WELCOME!