Electives

Below is a selection of available electives appropriate for areas of specialization.

This list is not all-inclusive. Students are encouraged to check the websites of classes in these departments and in other listings; and then to work with their mentor to formulate a plan to optimize selections to fit interests.

**Bold = highly recommended as an elective**

**BIOSTATISTICS**

- BIOST 521 Biostatistics for Experimentalists (4)
- BIOST 529 Sample Survey Techniques (3)
- **BIOST 524 Design of Medical Studies**
- BIOST/EPI 536 Categorical Data Analysis in Epidemiology (4)
- BIOST/EPI 537 Survival Data Analysis in Epidemiology (4)
- BIOST 540 Correlated Data Regression (3)

**Center for Statistics and the Social Sciences (CSSS)**

- CSSS 566 Causal Modeling (4)

**ECONOMICS**

- ECON 554 Cost-Benefit Analysis (3)

**EPIDEMIOLOGY**

- **EPI 510 Epidemiologic Data Analysis (3)**
- EPI 514 Application of Epidemiologic Methods (4)
- **EPI 515 Topics in Epidemiologic Methods (Advanced Methods) (3)**
- EPI 516 Statistical Methods in Genetic Epidemiology (3) (PHG 519)
- EPI 517/PHG 511 Genetic Epidemiology (3)
- EPI 519 Epidemiology of Cardiovascular Disease (3)
- EPI 520 Epidemiology of Infectious Diseases (3)
- EPI 524 Epidemiologic Studies of Cancer Etiology and Prevention (3/4)
- EPI 528 Exposure Measurement in Epidemiology (3)
- EPI 529 Emerging Infections of International Public Health Importance (3)
- EPI 530 AIDS: A Multidisciplinary Approach (2)
- EPI 540 Introduction to Cancer Biology (3)
- EPI 541 Introduction to Systematic Reviews and Meta-analysis of Evidence (MEBI 541/HSERV 529) (3)
- EPI 542 Clinical Epidemiology (2)
- EPI 546 Psychiatric Epidemiology (3)
- EPI 548 Social Determinants of Health Research Methods (HSERV 548) (3)
- EPI 582 Design and Analytic Strategies to Enhance the Validity of Epidemiologic Studies (1)
- EPI 583 Epidemiology Seminar (1, max. 3)
- **EPI 588 Preparing and Writing Research Proposals (2)**
- EPI 591 Current Literature in Epidemiology (1)

GLOBAL HEALTH

- G H 531 Research Methods in Developing Countries (3/4)
- G H 533 Population Health Measurement (4)
- G H 543 Global Health Pharmacy: Medicines, Practice and Policy (2)

HEALTH SERVICES

- HSERV 503 Public Health Informatics and Surveillance (3) (EPI 503)
- HSERV 509 Public Health and Informatics (3) (MEBI 533)
- HSERV 512 U.S. Health and Health Care: Organization, Financing, and Delivery (3)
- HSERV 513 U.S. Health and Health Care: Population Health, Social Determinants, and Health Disparities (3)
- HSERV 514 U.S. Health and Health Care: Health Policy Research (3)
- HSERV 518 Social and Ethical Issues (2-4, max. 4)
- HSERV 521 Qualitative Methods in Health Services Research (3)
- HSERV 522 Health Program Evaluation (1-4, max. 4)
- **HSERV 523, 524, 525 Advanced Health Services Research Methods I, II, & III (4 each)**
- HSERV 526 Qualitative Research Methods for Public Health (4)
- **HSERV 527 Survey Research Methods (4)**
- HSERV 528 Critically Appraising and Applying Evidence in Health Care (3)
- HSERV 529 Introduction to Systematic Reviews and Meta-analysis of Evidence (2)
- HSERV 550 Policy and Economics: Fundamentals and Applications (3)
- HSERV 551 Health Law (2)
- HSERV 552 Health Policy Development (3-, max. 3)
- HSERV 553 Politics of Health Care (3)
- HSERV 575 Cancer Prevention and Control (3)
- HSERV 589 Epidemiologic Research in Aging Populations

HEALTH MANAGEMENT

- HSMGMT 500 Risk and Insurance Seminar (3)
- HSMGMT 501 Epidemiology/Critical Evidence Appraisal (3-4)
- HSMGMT 502 Evidence-Based Health Care Planning (3-4)

BIOMEDICAL AND HEALTH INFORMATICS

- MEBI 530 Medical Informatics (3)
- MEBI 533 Public Health and Informatics (3)
- MEBI 534 Biology and Informaticists (3)
- MEBI 552 Clinical Decision Support (3)

PUBLIC AFFAIRS

- PB AF 513 Public Policy Analysis (3)
- PB AF 516 Microeconomic Policy Analysis (4)
- PB AF 517 Economics of the Public Sector (3)
- PB AF 518 Applied Cost Benefit Analysis (3/4)
- PB AF 522 Financial Management and Budgeting (4)
- PB AF 532 Managing Policy in a Global Context (3/4)
- PB AF 536 Program Evaluation in the Developing World (3/4)
- PB AF 570 Social Policy Analysis and Management (3)

BIOMEDICAL REGULATORY AFFAIRS

- PHARM 516, 517, 518 Certificate Program in Biomedical Regulatory Affairs (3 each)

PUBLIC HEALTH GENETICS

- PHG 512 Legal, Ethical, and Social Issues in Public Health Genetics (3)
- PHG 541 Economic and Policy Issues for Genetic Technologies and Services (3)
- PHG 580 Interactive Seminar (1)
- PHG 581 Introduction to Bioinformatics and Genetics Services in Public Health Genetics (1)
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<thead>
<tr>
<th>Course</th>
<th>Dept/Instructor</th>
<th>Typically Offered</th>
<th>Content</th>
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<tbody>
<tr>
<td>BH 552 Advanced Qualitative Methods</td>
<td>Medical History/Ethics Helene Starks</td>
<td>Winter Every other even year</td>
<td>Subjectivity/reflexivity, phenomenology, discourse analysis, grounded theory (theory and design for each)</td>
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<tr>
<td>EDPSY 586/587 Qualitative Methods of Educational Research</td>
<td>Education Michael Knapp</td>
<td>Fall/Spring Yearly</td>
<td>Fall – design and beginning field work; Spring – data analysis and presentation</td>
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<tr>
<td>ENGL 562 Discourse Analysis</td>
<td>English Gail Stygall or Sandra Silberstein</td>
<td>Fall Yearly</td>
<td>Basics of language analysis beyond the sentence level, including both discourse analysis and sociolinguistics, focus on critical discourse analysis (CDA)</td>
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<tr>
<td>GEOG 425/525 Qualitative Methodology in Geography</td>
<td>Geography Lucy Jarosz</td>
<td>?</td>
<td>Ethnography, focus groups, interviewing, discourse and content analyses, narrative analysis, and archival analysis</td>
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<tr>
<td>GWSS 503 Feminist Research and Methods of Inquiry</td>
<td>Gender, Women’s Studies &amp; Sexuality</td>
<td>Spring Yearly</td>
<td>Focuses on how similar objects of study are constituted in different disciplines for feminist scholars</td>
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<tr>
<td>HSERV 521A Seminar in Advanced Qualitative Research Methods</td>
<td>Public Health James Pfeiffer</td>
<td>Spring Yearly</td>
<td>Epistemology, grounded theory, question development, data gathering (interviewing), data analysis (coding), identifying themes, interpreting data, content analysis, matrices, visual displays</td>
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<tr>
<td>HSERV 526/GH 537 Qualitative Research Methods for Public Health</td>
<td>Public Health Stephen Bezruchka</td>
<td>Winter Yearly</td>
<td>Research questions, direct observation, informant interviews, insider/outside issues, coding, focus groups, formal methods (pile sort, rankings, free list) &amp; indirect observation, analysis, presenting data</td>
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<tr>
<td>HSRV 576 Health, Culture &amp; Community</td>
<td>Health Serv/Nursing Noel Chrisman</td>
<td>Spring ?</td>
<td>Ethnographic approaches to understanding culture, CBPR</td>
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<tr>
<td>HSERV 590 Community Based Participatory Research</td>
<td>Public Health Bonnie Duran</td>
<td>? Yearly</td>
<td>Integrated understanding of the theory, principles, methods and applications of Community-Based Participatory Research (CBPR)</td>
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<td>INSC 572</td>
<td>Information School Raya Fidel</td>
<td>??</td>
<td>Field work, interviewing, analysis</td>
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<td>NMETH 582/3 Interpretive Methods</td>
<td>Nursing ?</td>
<td>Winter/Spring Yearly</td>
<td>Phenomenology, grounded theory, discourse analysis, narrative analysis, case study research, storytelling, CBPR, qualitative policy work</td>
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<td>PBAF 525A</td>
<td>Qualitative Methods for Policy Analysis</td>
<td>Public Affairs</td>
<td>Sara Curran</td>
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<td>POLS 502</td>
<td>Qualitative Research Methods</td>
<td>Political Science</td>
<td>Elizabeth Kier or Susan Whiting</td>
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<td>URDBP 519</td>
<td>Qualitative Research Planning</td>
<td>Urban Studies</td>
<td>Bob Mugerauer</td>
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