

# Department of Epidemiology and Population Health

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The Department of Epidemiology and Population Health offers courses in epidemiology, biostatistics, and population health to graduate students in the Faculty of Health Sciences and the Faculty of Medicine. The course offerings to students in the Master of Public Health (MPH) program, the Master of Science (MS) in Epidemiology program, and the Master of Science (MS) in Population Health program are given as core, required, and elective courses. In addition, members of the department offer courses in statistics and epidemiology to students in the Medical Degree program, and coordinate and participate in teaching courses in preventive medicine and public health programs in the Faculty of Medicine.

## **EPHD 225      Medical Statistics      1.2; 2 cr.**

An introductory course for Medicine I students to the study of statistics applied to medicine. Topics include introduction to design in medical research; planning and conducting survey research; methods of describing data; statistical inference for means and proportions, both parametric and non-parametric; and multiple linear regression and logistic regression.

## **EPHD 226      Epidemiology      2.2; 3 cr.**

A course required of Medicine II students which consists of lectures and complementary practical sessions that provide students with basic epidemiological tools relevant to both clinical and public health practice. This course also covers issues in design, conduct, and analysis of epidemiological studies, in addition to critical appraisals of scientific literature.

## **EPHD 300      Principles of Epidemiology      2.2; 3 cr.**

A course in principles, concepts and application of epidemiology in the public health field. The course consists of lectures, assigned readings and complimentary practical sessions that provide students with basic epidemiological knowledge and tools relevant to public health practice. Students are given the opportunity to acquire an understanding of the vocabulary of epidemiology and methods of epidemiological research, investigation and control. This course also offers applied epidemiological knowledge of major diseases of public health significance with a focus on disease ecology, etiology, transmission and contagion modes.

\*Seconded to the Center for Research on Population and Health (CRPH)



- EPHD 324 Special Topics in Biostatistics 1–3 cr.**  
A course that covers selected topics in biostatistics of special interest to researchers and trainees in epidemiology and population health. *Prerequisite: EPHD 310 or consent of instructor.*
- EPHD 325 Medical Statistics 1.2; 2 cr.**  
*Similar to EPHD 225.*
- EPHD 326 Epidemiology 2.2; 3 cr.**  
*Similar to EPHD 226.*
- EPHD 330 Demographic Methods for Public Health Decision-Making 2.0; 2 cr.**  
An introductory course on selected demographic methods and measures of population health. The emphasis is on conceptual issues, measurement and hands-on experience with basic techniques, as well as inequalities in health over the life course. Topics covered include sources and quality of population data; rates and ratios; standardization and decomposition; mortality measures and the life-table; perceived versus actual morbidity; the burden of disease; period and cohort measures of fertility; migration rates; and marriage indices.
- EPHD 331 Population Change and Health 3.0; 3 cr.**  
An intensive course that examines the field of population studies, with a survey of major issues and research findings from the Middle East region. Topics covered include population growth, sources of demographic data, the demographic transition, models of fertility decline, contemporary fertility transition, fertility and reproductive health, mortality trends, health and mortality decline, urbanization and health, international migration, marriage and family patterns, aging, population, and policy. *Open to undergraduate seniors.*
- EPHD 332 Population and Health Policy 3.0; 3 cr.**  
A course designed to explore the links between population, health, and development issues, with a focus on population policies and programs in the Middle East and North Africa. Topics include demographic trends and their implications for health policies; family planning programs and policies; the reproductive health paradigm; HIV/AIDS; gender and population policy; special health needs posed by the youth 'bulge' and population aging; political dimensions of population policies; and debates between the policy objectives of reducing population growth at the macro level and promoting individual well-being.
- EPHD 333 Special Topics in Population Health 3.0; 3 cr.**  
An examination of specific topics in population health such as aging, burden of disease, reproductive health, fertility of adolescents, social determinants of population health, and the demography of refugee populations.
- EPHD 334 Reproductive Health 3.0; 3 cr.**  
A course that examines selected issues in reproductive health with a focus on developing countries. Topics covered include pregnancy and childbirth, unintended pregnancy, maternal mortality, infertility, gynecological morbidity including sexually transmitted infections, sexuality, birth spacing and family planning, and reproductive rights. Particular emphasis is placed on conceptual issues and recent debates about reproductive health within the context of the international agenda on reproductive rights established at the 1994 Cairo Conference on Population and Development.
- EPHD 336 Tutorial in Epidemiology 1–3 cr.**

<b>EPHD 337</b>	<b>Tutorial in Biostatistics</b>	<b>1–3 cr.</b>
<b>EPHD 338</b>	<b>Tutorial in Population Health</b>	<b>1–3 cr.</b>
<b>EPHD 340</b>	<b>Seminar</b>	<b>0 cr.</b>
<p>A seminar that provides students with an opportunity to review, critique, and orally present their evaluation of either peer-reviewed articles or other literature in epidemiology or population health, and/or their research projects/theses that are in progress for feedback. Major methodological and conceptual issues are highlighted and discussed. <i>Offered in the fall and spring semesters.</i></p>		
<b>EPHD 345</b>	<b>Research Project</b>	<b>1.2; 2 cr.</b>
<p>A course that is required of students exempted from EPHD 365. The course involves a research project that the student carries out within his/her area of concentration or interest, as an individual or as part of a group. This research may focus on one or more of the qualitative and quantitative methodologies introduced in Research Design and Introduction to Epidemiology and Biostatistics. This course gives the student the chance to apply background knowledge and master research skills in an area of interest. <i>Prerequisites: PBHL 310, EPHD 300, EPHD 310 and completion of all, or all but one, of the core and concentration courses.</i></p>		
<b>EPHD 365</b>	<b>Practicum in Epidemiology and Biostatistics</b>	<b>0.30; 3 cr.</b>
<p>An individual program for students to gain research experience in epidemiology and biostatistics mainly through data collection and analysis of various types of data. Students work under the direction of a faculty advisor and may also work with an outside preceptor if appropriate. Field study sites may include the Ministry of Public Health, Ministry of Social Affairs, non-governmental agencies, UN agencies (UNICEF, ESCWA, UNFPA), and health services organizations. <i>Prerequisite: PBHL 355 and completion of all, or all but one, of the concentration courses.</i></p>		
<b>EPHD 399</b>	<b>Thesis</b>	<b>6 cr.</b>