

# POPULATION MEDICINE (POPM)

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## **POPM\*6100 Seminar Fall Only [0.00]**

A practical course that utilizes tutorials, workshops, self and peer reviewed assessment to help participants develop skills in public speaking and presentation of scientific data. Each student presents at least one seminar on an approved subject during the departmental seminar series.

**Offering(s):** Annually

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6200 Epidemiology I Fall Only [0.50]**

This course covers concepts, principles and methods of basic and applied epidemiology, including the following topics: sampling, measuring disease frequency, clinical epidemiology, descriptive epidemiology, causal reasoning and design, interpretation and critical appraisal of surveys, observational studies, field trials, and critical appraisal.

**Offering(s):** Annually. Also offered through Distance Education format.

**Restriction(s):** Restricted to Public Health and Population Medicine students.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6210 Epidemiology II Winter Only [0.50]**

Advanced study design and analytic methods for the analysis of data from observational studies and surveys.

**Offering(s):** Annually

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6230 Applied Clinical Research Winter Only [0.50]**

This course is designed to help clinical researchers design, fund, and analyze their clinical research. Emphasis is placed upon planning a well-designed clinical trial and writing a well-organized grant proposal.

**Offering(s):** Annually

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6250 Project in Population Medicine Summer, Fall, and Winter [1.00]**

Collection and analysis of field data and the preparation of a written report suitable for publication, and oral presentation of the findings to the graduate faculty. This course is part of the MSc program by course work in population medicine.

**Offering(s):** Annually

**Restriction(s):** Restricted to Population Medicine MSc coursework/MRP students

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6260 Placement in Epidemiology Summer Only [1.00]**

In this one-semester course, students apply skills and integrate knowledge gained via coursework in a workplace setting by actively conducting and managing clinical trial research. Over a 12- to 16-week period, students work at an academic institute, human or veterinary hospital, government organization or company routinely conducting clinical trial research. The course culminates in the completion of a major research project.

**Offering(s):** Annually

**Restriction(s):** Instructor consent required.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6290 Epidemiology III Fall Only [0.50]**

This course gives an overview of advanced methods for the analysis of data of clustered/correlated data as opposed to independent data. Special emphasis is on spatial, longitudinal, survival, and time series data.

**Offering(s):** Annually

**Prerequisite(s):** POPM\*6210

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6350 Safety of Foods of Animal Origins Fall Only [0.50]**

The detection, epidemiology, human health risk, and control of hazards in food of animal origin.

**Offering(s):** Offered through Distance Education format only.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6400 Dairy Health Management Summer Only [0.50]**

This course stresses a population-based, herd-level approach to dairy herd health management, in which optimizing the efficiency of the dairy enterprise is the overall goal. The biological and economic impacts of disease and management deficiencies on herd performance will be discussed as they relate to design and implementation of herd health programs. The course will emphasize the critical role of record keeping, data analysis and monitoring on program success.

**Offering(s):** Even-numbered years

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6510 Health Promotion Winter Only [0.50]**

This course introduces students to health promotion and health behaviour theory and practice. Example topics include: social determinants of health, health promotion theories, health behaviour change, campaign planning, and social marketing. Students will apply their knowledge by creating a public health promotion campaign.

**Offering(s):** Annually

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

## **POPM\*6520 Introduction to Epidemiological and Statistical Methods Fall Only [0.50]**

This is a 0.5 credit introductory graduate course for MPH students and students interested in epidemiology. The course will provide an introduction to research design, grant proposal writing, and critical appraisal, as well as survey (questionnaire) design and basic statistical methods for epidemiological studies.

**Offering(s):** Annually

**Co-requisite(s):** POPM\*6200

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6530 Health Communication Fall Only [0.50]**

This course introduces communication theory, best practices, and skills related to public health. Students will learn about the written, oral, and visual communication of health information for professional, peer, and lay audiences. Students will apply their knowledge by creating a portfolio of health communication materials.

**Offering(s):** Annually

**Restriction(s):** Restricted to Public Health students.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6540 Concepts in Environmental Public Health Winter Only [0.50]**

This course covers the main concepts of environmental public health including basic elements of environmental toxicology, risk analysis, air and water quality, food safety, waste, occupational health and eco health.

**Offering(s):** Annually

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6550 Public Health Policy and Systems Winter Only [0.50]**

This course covers concepts and principles of public health policy and systems including: public health systems, their structure, funding and governance and their integration into the healthcare system; evolution of public health policy; models of policy development and analysis; stakeholder analysis; and, public health ethics.

**Offering(s):** Annually

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6560 Public Health Practicum Unspecified [1.00]**

In this 1.0 credit course, students will synthesize theoretical concepts, learned via prior coursework, with public health practice. Students will work in a host public health agency for a 12-to 16-week period, focusing on a major project of significance to the host organization.

**Offering(s):** Annually

**Prerequisite(s):** POPM\*6200, POPM\*6510, POPM\*6520, POPM\*6530, POPM\*6540, and POPM\*6550

**Restriction(s):** Restricted to Public Health students.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6570 Public Health Capstone Fall Only [0.00]**

This course serves as a capstone for students in the Master of Public Health program to reflect on, interpret, and present their practicum work in a variety of formats, including public presentation, to enhance their communication skills and abilities.

**Offering(s):** Annually

**Prerequisite(s):** POPM\*6560

**Restriction(s):** Restricted to Public Health students.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6580 Public Health Leadership and Administration Fall Only [0.50]**

This course will teach students to develop, implement and improve public health programs. Understanding an organization's mission and priorities, and developing business plans is critical for an effective administrator.

Furthermore, it introduces theories and effective components of leadership and describes the practical role of the leader.

**Offering(s):** Annually

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6590 Public Health Practicum II Winter Only [1.00]**

This course allows students in the Master of Public Health program to undertake an optional second practicum experience. They will work in a host public health organization or agency for a 12- to 16-week period, focusing on a major project of significance to the host organization.

**Offering(s):** Annually

**Prerequisite(s):** POPM\*6560

**Restriction(s):** Restricted to Public Health students.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6600 Applied Public Health Research Summer, Fall, and Winter [0.50]**

Students will undertake a supervised research project on a public health issue or problem. The project will involve analysis and interpretation of public health information and the findings will be presented in a written report.

**Offering(s):** Annually

**Prerequisite(s):** POPM\*6560

**Restriction(s):** Restricted to Public Health students.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6610 Theriogenology of Cattle Unspecified [0.50]**

A lecture/seminar course emphasizing the relationship of nutritional, genetic, endocrine, anatomic, and environmental factors with the reproductive health of cattle. Application of reproductive technologies will also be covered.

**Offering(s):** Occasional years

**Restriction(s):** Restricted to DVSc students.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6630 Theriogenology of Horses Unspecified [0.50]**

A lecture/seminar course covering the genetic, endocrine, anatomic and environmental factors that affect reproductive performance and health of horses. Breeding management, including recent technologies, and management of the infertile animal will be included.

**Offering(s):** Occasional years

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6650 Theriogenology of Dogs and Cats Unspecified [0.50]**

A seminar/lecture series that includes the theory and management of clinical reproduction for the dog and cat, including use of developing technologies.

**Offering(s):** Occasional years

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6670 Theriogenology of Small Ruminants Unspecified [0.50]**

A seminar/laboratory course emphasizing advanced reproductive management of sheep, goats and farmed deer/elk, with the emphasis on a sheep production model. New reproductive technologies will be included.

**Offering(s):** Occasional years

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6700 Swine Health Management Unspecified [0.50]**

Diseases of swine are studied with particular emphasis on preventive medicine and herd-health management.

**Offering(s):** Even-numbered years

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6800 Infectious Disease Modeling Winter Only [0.50]**

This course serves as a basic introduction to mathematical modeling of infectious diseases using examples from public and veterinary health. Students completing this course will have the ability to critically appraise published mathematical models, and to build, parameterize, and analyze simple compartmental models.

**Offering(s):** Annually

**Prerequisite(s):** POPM\*6200

**Restriction(s):** Instructor consent required.

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6950 Directed Studies in Population Medicine Unspecified [0.50]**

Assigned reading and/or special projects selected to provide in-depth study of topics appropriate to the specialized interests of individual students. Courses offered under this title have included Special Topics in Public Health; Ecology and Health; Systems Approaches; and Animal Welfare. Different offerings are assigned different section numbers.

**Offering(s):** Annually

**Department(s):** Department of Population Medicine

**Location(s):** Guelph

**POPM\*6960 Systematic Reviews and Meta-Analysis Winter Only [0.50]**

This course covers the use of systematic reviews in animal and public health, the steps in conducting a systematic review, and quantitative synthesis of research results from multiple studies (meta-analysis). The course combines didactic lectures and videos with practical exercises during class time.

**Offering(s):** Annually

**Prerequisite(s):** POPM\*6200 and POPM\*6520

**Department(s):** Department of Population Medicine

**Location(s):** Guelph