

Department of Community & Preventive Medicine Spring 2007 Course Offerings

Please note that scheduled class times and rooms may change prior to the beginning of classes. Updated information will be placed on our departmental web page as it becomes available:
<http://www.urmc.rochester.edu/cpm/index.html>

Non-matriculated students need to secure the permission of instructors in order to register for courses. Class sizes may be limited. Non-matriculated students should obtain registration materials from the School of Medicine Graduate Registrar (275-2933) For more information about the courses listed below, please contact the instructor or Pattie Kolomic, Graduate Programs Administrator, 275-7882, Pattie_Kolomic@urmc.rochester.edu.

Spring classes begin on Wednesday, January 17

Spring Break March 12-16, 2007
Classes End May 3, 2007
Exam Week: May 8-15, 2007

PM 412 Survey Research (CRN: 64089) 3 Credit Hours

Instructor: Scott McIntosh, Ph.D., Ken Tomaszewski, Ph.D.

This course will present students with an overview of the role of survey methods and tools in the research process, with a particular focus on survey research applications in health care research and epidemiology. The course will incorporate an integrated perspective, which includes a qualitative approach to conducting appropriate and accurate survey research. Students will participate in all stages of the survey research process through application of homework assignments. Prerequisite: PM 415 Principles of Epidemiology or permission of the instructor.

Monday, 9:30-12:00, River Road Complex

PM 413 Field Epidemiology (CRN: 64091) 3 Credit Hours

Instructor: Edwin Van Wijngaarden, Ph.D.

This course will provide an overview of the practical applications of theoretical epidemiological concepts in the study of the distribution of diseases and their causes in populations. Emphasis will be on the hands-on discussion of basic methods in epidemiologic research, including literature review; study design selection; measurement of disease; selection of relevant variables; development and administration of questionnaires; quantitative data analysis; and reporting study findings. These concepts are discussed in the context of case studies and special topics such as outbreak investigations, cancer cluster investigations, and meta-analysis. Prerequisite: Introduction to Epidemiology or permission of the instructor. **Tuesday/Thursday 9:30-11:00, HWH 4W209**

PM 418 Cardiovascular Disease Epidemiology and Prevention (CRN: 76394) 3 Credit

Hours

Instructors: Jacob Adams, M.D., Robert Block, M.D.

At the completion of the course, students will be able to demonstrate their knowledge of cardiovascular disease epidemiology and prevention by listing and/or discussing the proven risk factors for coronary heart disease (CHD) and the seminal studies leading to their discovery, the emerging risk factors for CHD, strategies and interventions for preventing CHD, the difference between risk markers and risk factors, the process of identifying and verifying that a risk marker is truly independent, the known and suspected risk factors for stroke and the current controversies in CVD EPI and prevention and how they have arisen. **Monday, 1:00-2:00, Wednesday, 3:45-5:45, HWH 4W209**

PM 425 Health Promotion and Preventive Medicine (CRN: 64107) 3 Credit Hours

Instructor: Laurie Kopin, M.S.

This course will provide the learner with a solid foundation and appreciation for primordial, primary, secondary, and tertiary disease prevention strategies on both an individual (patient and provider) and population-wide basis (society as a whole). The overarching theme of the course is to impress upon the learner the importance of and need for preventive health behavioral interventions and the positive impact healthy behavior change can have on our society as a whole on an environmental, economical, and social level. **Tuesday, 4:00-7:00, HWH 4W301**

PM 428 Health Services Research Seminar and Workshop Series (CRN: 64115) 0 Credit Hours

Instructor: Bruce Friedman, Ph.D., M.P.H.

A non-credit course required of all doctoral and postdoctoral students. A variety of topics will be presented for discussion by faculty and students. **Friday, 12:00-1:30PM, HWH 4W301**

PM 438 Practical Skills in Grant Writing (CRN: 64121) 3 Credit Hours

Instructor: Thomas Pearson, M.D., Ph.D., M.P.H.

This course is intended to provide the student interested in a career in the life sciences with practical skills related to procuring external support for research. The course content includes a variety of didactic lectures on grant-related topics, discussion sessions with the opportunity to examine grants that others have written, examination of tools and resources available to assist in grant writing, and the opportunity to write a grant for support of the student's own research project and have it critiqued. At the end of the course, the enrollee should be able to write a research grant.

Monday, 4:00-6:00 PM, HWH 4W301

PM 441 Conducting Research with Elderly Persons: Methods and Applications (CRN: 76413) 3 Credit Hours

Instructor: Bruce Friedman, Ph.D., M.P.H.

The purpose of this course is to familiarize students with unique and prevalent issues, problems, difficulties, and challenges of conducting health services research with elderly persons, and to provide students with approaches and tools to address those issues and problems in order to successfully conceptualize, plan, carry out, and conclude research with the aged. This course will focus almost exclusively on person's age 65 and older, with special attention being paid to the old-old (those age 85 and over), people with cognitive impairment, and residents of nursing homes. **Monday, 1:00-4:00, HWH 4W301**

PM 442 Nutritional Epidemiology (CRN: 64142) 3 Credit Hours

Instructor: Diana Fernandez, M.D., M.P.H., Ph.D.

The course is designed to give the students the tools to critically review the nutritional epidemiologic literature and to conduct epidemiologic studies of diet, nutrition, and disease. Concepts on nutritional epidemiology will be applied to nutrition and nutritional-related disorders prevalent in the United States and globally (e.g., descriptive epidemiology of breast-feeding, obesity, micronutrient deficiency). Prerequisites: introductory courses in epidemiology and statistics. **Friday, 9:00-11:30, HWH 4W209**

PM 448 Health Policy Analysis (CRN: 64150) 3 Credit Hours

Instructor: Peter Veazie, Ph.D.

This course introduces the students to a variety of tools that are used to analyze governmental health policy. The tools and concepts are those found in economics (e.g., market analysis, efficiency), political science (e.g., analysis of voting behavior, interest groups, public opinion), and econometrics (e.g., regression analysis). Class discussions will be based primarily on selected journal articles. **Tuesday, 4:00-7:00, HWH 4W209**

PM 450 Management and Evaluation of Health Services Organizations

Part I (CRN: 64168) 2 Credit Hours

Part II (CRN: 64173) 2 Credit Hours

Instructor: Thomas Toole, MBA

PM 450 Part I only is required for the MPH-CI track. PM 450 Parts I and II are required for the MPH Generalist track and all other students.

This course provides an understanding of executive level management and leadership in non-profit health and human service organizations. In addition, students study organizational context, program design and implementation, and the evaluation of health care services. Students will complete two projects: a health and human service not-for-profit agency-based project that will involve an analysis of management and leadership issues, as well as a needs assessment, program evaluation or quality assurance assessment. Prerequisites: one semester of epidemiology.

Thursday, 9:30-12:00, HWH 4W301

PM 452 Community Health Improvement Practicum (CRN: 64184) 3 Credit Hours

Instructor: Scott McIntosh, Ph.D.

The course aims to educate students in the appropriate knowledge, attitudes, and skills necessary for developing the connection between students and the Rochester community, specifically in the connection between community and health. To help them become key partners in the community who are able to help effect positive changes in health on a broader scale. **Monday 2:00 – 5:00, River Road Complex**

PM456 Advanced Health Economics II (CRN: 76356) 3 Credit Hours

Instructor: Byung-Kwang Yoo, M.D., M.S., Ph.D.

This course will develop key theoretical concepts of industrial organization and apply the concepts to health care markets. Topics covered will include: theory of the firm, typology of markets, strategic behavior and game theory, integration, the role of information, regulation, and antitrust laws. Prerequisite: Microeconomics (ECO 207 or ECO 471) and calculus. **Wednesday, 9:00-12:00, HWH 4W116**

PM 458 Qualitative Health Care Research (CRN: 64196) 3 Credit Hours

Instructor: Nancy Chin, Ph.D., M.P.H.

A community's health is not just determined by individual health behaviors, but also by cultural beliefs and forms of social organization. Traditional quantitative methodologies that have been so powerful in understanding biological phenomena have limited explanatory power when analyzing socio-cultural phenomena. Qualitative methods, long used in the social sciences, allow access to areas that quantitative methods cannot adequately reach. In addition, qualitative methods can function as a prerequisite to quantitative methods by hypothesis generation or identifying lay terminology for accurate survey developed. This course will cover standard qualitative methodologies through a discussion of relevant literature, class exercises, and a group project. **Wednesday, 9:00-12:00, HWH 4W301**

PM 460 Master's Essay

This research project is designed, carried out, analyzed, and written up by the student under the supervision of, and in consultation with, an essay advisor and an advisory committee. Open to MPH Generalist Track students only.

PM 464 Introduction to Regression Analysis (CRN: 64269) 3 Credit Hours

Instructor: Bruce Friedman, Ph.D., M.P.H.

The course will focus on becoming familiar with the theory of ordinary least squares regression analysis and its assumptions as well as the necessary alterations required to conduct valid analysis when those assumptions are not met. To the extent possible, examples will be taken from the health services research literature. Prerequisites: PM 463 or permission of instructor.

Monday/Friday, 9:30-11:00, HWH 4W116

PM 469: Multivariate Models for Epidemiology (CRN: 64274) 3 Credit Hours

Instructor: Edwin Van Wijngaarden, Ph.D., Susan Fisher, Ph.D.

The purpose of this course is to provide the student with a strong understanding of and experience in the more advanced quantitative methods for the analysis of epidemiologic studies.

A more detailed presentations of the analysis issues of confounding and interaction will be presented and a complete presentation of most multivariate techniques. Prerequisite: Advanced Epidemiology, knowledge of SAS or other statistical software, or permission of the instructor.

Wednesday 9:30 – 11:00, 4W209, Friday 2:00 – 3:30, HWH 4W301

PM 470 Public Health and the Environment (CRN: 64283) 2 Credit Hours

Instructors: James Tacci, M.D., .JD., M.P.H., Elizabeth Woodard, M.D., M.P.H.

The objective of this course is to provide an overview of environmental issues related to public health. Physical, social and psychological environmental issues will be addressed through readings, lectures, discussions as well as field trips and site visits. Selected environmental issues will be addressed from the perspective of impact on public health (**history and current public health**). **Thursday, 2:00–5:00, HWH 4W301**

PM 476 RCRC Seminar Series (CRN: 64303) 0 Credit Hours

Thomas Pearson, M.D., Ph.D., M.P.H.

A weekly seminar series for Rochester Clinical Research Curriculum participants. This series will include presentations from UR training mentors, guest lecturers, experts in technological

innovations in clinical research, as well as trainee presentations.

Tuesday, 12:15–1:15 Le Chase Assembly

PM 478 Workshop in Scientific Communication (CRN: 64312) 0 Credit Hours

Instructor: Donna Jackel

A non-credit course required of all Rochester Clinical Research Curriculum trainees, PhD and postdoctoral fellows. This workshop series will address the principle elements of scientific presentation and communication such as: medical writing, abstract preparation, poster development, manuscript review and critique, oral presentations, working with the media/public relations.

Wednesday 1:00 – 2:30, HWH 4W209

PM 484 Medical Decisions and Cost Effectiveness Research (CRN: 64348) 3 Credit Hours

Instructor: Katia Noyes, Ph.D., M.P.H.

Cost-effectiveness research is increasingly used to evaluate alternative choices in clinical practice and to enlighten and inform health policy determinations. In this course, students are introduced to the methods of cost-effectiveness research, including various strategies of incorporating costs and effects into such analyses. Students will also participate in a lab to learn decision analysis software such that they can perform analyses themselves. Prerequisite: at least one semester of graduate level statistics. **Tuesday, 1:00-4:00, HWH 4W301**

PM 494 Research Program Administration (CRN: 64408) 0 Credit Hours

Instructors: Sandra Griffin-Roth, M.S., Gunta Liders, M.A., Michael Ritz

This on-line course will provide practical skills regarding the post award management of the financial, human resources, facilities, and regulatory aspects of a federally funded research project. Course materials are on-line. Exams will be distributed by email.

PM 494 Theory, Explanation, and Modeling for Health Services Research (CRN: 64462)

Instructor: Peter Veazie, PhD

This course provides the link between ideas and empirical analysis. It will introduce the student to fundamental ideas in the philosophy of science, as well as the creation, analysis, and modeling of theories and explanations. The course is intended to motivate abstract thinking in the student. The purpose is to encourage consideration of the ontological and epistemological nature underlying empirical research and to provide tools for building coherent theories and explanations that entail informative empirical implications, guiding modeling and interpretation, and structuring future research. The modeling component of the course requires an understanding of first order logic, set theory, and calculus. Prerequisites: 2nd year or higher CPM PhD students or instructor permission. **Thursday, 3:00-5:00, HWH 4W209**

PM 595. Ph.D. Research

PM 895. Continuation of Master's Enrollment (CRN: 64670)

PM 985. Leave of Absence (CRN: 64733)

PM 999. Doctoral Dissertation (CRN: 64766)

OTHER RELEVANT COURSES:

BST 465. Design of Clinical Trials (CRN: 19354) 4 Credit Hours

Instructor: Michael McDermott, Ph.D.

Introduction to the principles of clinical trials; clinical trial protocols; overview of the drug development process; hypotheses/objectives; specification of response variables; defining the study population; randomization; blinding; ethical issues; factorial designs; crossover designs; equivalence trials; trial monitoring and interim analyses; sample size and power; data collection and management; issues in data analysis and reporting; evaluating clinical trial reports.

Prerequisite: BST 463 or equivalent. **Tuesday/Thursday, 8:00 - 9:15AM, K-307**

Jan. 11, 07