

Spring 2013 Online Interactive Course PHPM 507

OMPH Program Track Elective (3 credits)

Genomics and Public Health:

Current Issues and Future Trends in Healthcare and Policy

Overview of the Course Framework

Weeks 1-8 of the course will consist of:

- 1) Assigned readings drawn from a background essay for each of the six teaching modules, primary research (and review-type) papers and a wide spectrum of professional and popular “resource” articles and electronic tools (videos, web/podcasts) in genome science, clinical application, ethics and health policy;
- 2) A weekly “critically-reflective” Weblog of questions drawn from required readings in each teaching module;
- 3) Two interactive weekly (cyber-) sessions with 1) course instructors to frame the week’s work and 2) leading-edge research and clinical faculty to discuss student-generated questions.

Together these learning tools will be designed to introduce students to the emerging field of public health genomics, with particular focus on:

- Genomics and P4 Medicine (Weeks 1 & 2, April 1-12)
- Social Epidemiology and Health Care Disparities (Week 3, April 15-19)
- Genetic Epidemiology, Pre-Natal and Newborn Screening (Week 4, April 22-26)
- Genetic Testing and Privacy (Weeks 5 & 6, April 29-May 10)
- Full Genome Sequencing and Personalized Medicine (Week 7, May 13-17)
- Epigenomics and Nutrition (Week 8, May 20-24)

Course Deliverable

Working together in teams, Weeks 9 and 10 (May 27-June 7) will be dedicated to preparing and facilitating an (invited) "Genomics Forum" targeting a broad spectrum of health care providers and policy makers to be convened sometime during finals week, June 10-14.



“The biggest bottleneck to the realization of the ‘genomic revolution’ in health care is the capacity of health professionals to make meaningful use of these new tools.”