Interested in global Health economics?

The [Health Economic Impact Studies for Translation (HEIST)](https://depts.washington.edu/cfar/discover-cfar/cores/international/health-economics-impact-study-team) is a program in the Department of Global Health that facilitates the integration of health economic analyses into global health research and implementation with the aim of building efficient programs that maximize health benefits. HEIST researchers mentor graduate students on costing, cost-effectiveness analysis, mathematical modeling of infectious diseases and behavioral economics throughout the research cycle.

Below is a list of some relevant courses offered through the School of Public Health and Department of Global Health to support your interest in global health economics.

**Fall term:**

**HSERV 583/PHARM 534 - Economic Evaluation in Health and Medicine (3 cr) Instructor: Sean Sullivan**

Concepts and methods for developing and using patient-reported outcomes in health and medicine. Emphasis on patient self-reported health status and quality of life. Qualitative research and psychometric methods applied to health outcomes assessment and all applications. Prerequisite: permission of instructor.

**EPI 554 - Introduction to Epidemic Modeling for Infectious Diseases (3 cr) Instructor: Ruanne Barnabas**

Covers the basic tools for building and analyzing mathematical models of infectious disease epidemics. Model types include deterministic and stochastic models, compartmental and individual-based models. Laboratory provides hands-on model building experience in Excel, Stella, and R.

**Winter term:**

**HSERV 584/PHARM 535 - Assessing Health Outcomes in Health and Medicine (3 cr) Instructors: Devine, Edwards**

Concepts and methods for developing and using patient-reported outcomes in health and medicine. Emphasis on patient self-reported health status and quality of life. Qualitative research and psychometric methods applied to health outcomes assessment and all applications. Prerequisite: permission of instructor.

**Spring term:**

**G H/ECON 345 - Global Health Economics (5 cr) Instructor: Carol Levin**

**\****Note: Course may apply to graduate degree requirements with program permission*

Introduces the application of health economics and the tools economists use to inform global health solutions in low and middle-income countries. Examines relationship between global health and development, survey of health economic evaluation concepts with focus on diseases and conditions in low and middle-income countries. Recommended: ECON 200 strongly recommended, G H 101 recommended.

**HSMGMT 514 - Health Economics (3 cr)** (note: US focus)

Uses economic concepts and tools to examine range of issues pertaining to healthcare, delivery of healthcare services. Includes demand analysis, production of health services, expenditure growth, markets for hospital and physician services, externalities. Emphasis on using economics to examine issues and solve problems. Prior economics courses not required.

**PHARM 520 Introduction to Pharmacoeconomics and Outcomes Research (2)Instructor: DaveVeenstra**Provides an introduction to economic evaluation and outcomes research related to pharmaceuticals and other healthcare technologies. Covers the methods of cost-effectiveness analysis and quality of life evaluation, and their use in real-world decision-making.

**G H 590 – Cost-Effectiveness Analysis for Global Health Research (1 cr, offered weeks 1-5) Instructor: Monisha Sharma**

Covers role of economic evaluation in informing global health policies, including process of incorporating an economic evaluation alongside a clinical or implementation trial; identifying steps of conducting an economic evaluation including project conceptualization, microcosting, modeling of health outcomes, and calculation of incremental cost-effectiveness ratios; and rationale behind the use of disability-adjusted life years and cost-effectiveness thresholds in resource limited settings.

**G H 590 - Principles of Costing for Global Health (1 cr, offered weeks 6-10) Instructor: Carol Levin**

This methods course will explore the principles, fundamental concepts, application and design of cost data collection and analyses used in cost analyses, economic evaluations and budget impact for implementing and scaling interventions in low and middle income settings. Students will become familiar with various objectives and uses of cost data in global health settings and learn the appropriate and specific methods and approaches to collect and analyze cost data to meet global health research applications

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