

# HEALTH STUDIES

**Director:** Jerusha Detweiler-Bedell

**Administrative Coordinator:** Alexis Rehrmann

Drawing upon Lewis & Clark's strong culture of interdisciplinary learning, the health studies minor recognizes the growing interest students have in public health and the value of a liberal-arts approach to solving the world's current and future public health challenges. The minor is multidisciplinary, bringing together coursework, internship experiences, and scholarly activity across the sciences, social sciences, and humanities. The minor provides the statistical and scientific foundation necessary for students interested in fields such as public health, health care administration, and health care policy alongside the narrative, psychological, and cultural contexts that supplement the coursework of those interested in medicine, physical therapy, and other clinical careers. Leveraging our renowned overseas and off-campus programs, students may apply up to 12 credits toward the minor from an approved overseas study program focused on public health. All students will have a health-related internship in Portland or overseas as part of their capstone experience.

## Minor Requirements

A minimum of 24 semester credits distributed as follows:

### Core Courses (12 credits)

- 4 credits from **each** of the **Core** categories below:

### Electives (12 credits)

- 4 credits from **each** of the **Electives** categories below; at least one elective must be at the 300 or 400 level.

Students may apply up to 12 credits from an approved Lewis & Clark College overseas program focused on public health.

A minimum of 12 semester credits must be exclusive to the minor.

### Core Categories

#### Statistics (4 credits)

ECON 103	Statistics
HEAL 200	Biostatistics in Public Health
MATH 123	Calculus & Statistics for Modeling the Life Sciences
MATH 255	Statistical Concepts and Methods
POLS 201	Research Methods in Political Science
PSY 200	Statistics I

#### Foundational Approaches to Health Studies (4 credits)

HEAL 210	Public Health
PSY 375	Health Psychology

#### Internship Capstone (4 credits)

HEAL 300	Health Studies Internship
HEAL 345	Health Studies Practicum: Special Topic (minimum of 4 credits)
PSY 345	Overseas Internship (with prior approval; in a health-related setting)
PSY 445	Psychology Internship (with prior approval; in a health-related setting)

### Elective Categories

#### Mechanisms of Wellness/Disease (4 credits)

BIO 252	Introduction to Neuroscience
BIO 370	Disease Ecology
BIO 375	Physiology
CHEM 100	Perspectives in Environmental Chemistry
CHEM 105	Perspectives in Nutrition
CHEM 110	General Chemistry I
CHEM 315	Aquatic Chemistry
CHEM 443	Medicinal Organic Chemistry
HEAL 340	Epidemiology
PSY 240	Abnormal Psychology
PSY 252	Introduction to Neuroscience
PSY 280	Brain and Behavior
PSY 380	Drugs and Behavior

#### Psychological/Narrative Representations of Wellness/Disease (4 credits)

ENG 100	Introductory Topics in Literature (when health-focused)
ENG 210	Writing and Illness
ENG 218	Renaissance Medicine in Literature
HEAL 315	Ethics in Public Health
PSY 370	Clinical Psychology
PSY 375	Health Psychology
PSY 395	Contemporary Issues in Psychiatric Health: The Complex Patient in a Complex System
PSY 435	Children's Mental Health
PSY 440	Social Construction of Madness
RHMS 320	Health Narratives

#### Global/Cultural Approaches to Wellness/Disease (4 credits)

CLAS 266	Health and Healing in the Ancient World
ECON 312	Global Health Economics
HEAL 260	Global Health
IS 269	The Irish Welfare System
RELS 106	Religion, Spirituality, and Medicine
SOAN 236	Reproductive Justice: Bodies, Health, and Society
SOAN 255	Medicine, Healing, and Culture
SOAN 333	Altered States: Social and Cultural Dilemmas
SOAN 334	Anthropology of Suffering
SOAN 359	Topics in Medical Anthropology
SOAN 395	Anthropology of the Body

At least 12 semester credits must be exclusive to the minor (may not be used in any other set of major or minor requirements).

## Faculty

Kellar Autumn. Professor of biology. Physiology, biomechanics, evolution of animal locomotion. PhD 1995 University of California at Berkeley. BA 1988 University of California at Santa Cruz.

Sepideh Azarshahri Bajracharya. Assistant professor with term of anthropology. Political culture of violence, communal politics, memory, narrative, urban ethnography, anthropology of space, South Asia. PhD 2008 Harvard University. BA 1999 Wesleyan University.

Barbara A. Balko. Associate professor of chemistry, , chair of the Department of Chemistry. Physical chemistry. PhD 1991 University of California at Berkeley. AB 1984 Bryn Mawr College.

Yung-Pin Chen. Professor of statistics. Statistics, sequential designs. Probability, stochastic processes. PhD 1994 Purdue University. BS 1984 National Chengchi University, Taiwan.

Julio C. de Paula. Professor of chemistry. Physical chemistry, biophysical chemistry, nanotechnology. PhD 1987 Yale University. BA 1982 Rutgers University.

Jerusha Detweiler-Bedell. Professor of psychology, director of the Health Studies program. Clinical and community psychology, health psychology, psychology of gender, internships. PhD 2001, MPhil 1998, MS 1997 Yale University. MA 1995, BA 1995 Stanford University.

Daena J. Goldsmith. Associate dean of the College of Arts and Sciences, professor of rhetoric and media studies. Social media, health communication, gender. PhD 1990, MA 1988 University of Washington. BS 1986 Lewis & Clark College.

Robert A. Kugler. Paul S. Wright Professor of Christian Studies. Judeo-Christian origins, Dead Sea Scrolls, early Jewish literature. PhD 1994 University of Notre Dame. MDiv 1984 Pacific Lutheran Theological Seminary. BA 1979 Lewis & Clark College.

Aine Seitz McCarthy. Assistant professor of economics. Applied microeconomics, development economics, labor and demography, economics of education. PhD 2016 University of Minnesota. BA 2006 Colby College.

Margaret Rowan Metz. Associate professor of biology. Plant community ecology, tropical ecology, disease ecology. PhD 2007 University of California at Davis. AB 1998 Princeton University.

Thomas J. Schoeneman. Professor of psychology. Personality, abnormal psychology, internships. PhD 1979, MS 1974, BA 1973 State University of New York at Buffalo.

Jessica D. Starling. Associate professor of religious studies, chair of the department of Religious Studies. East Asian religions, Buddhism. PhD 2012, MA 2006 University of Virginia. BA 2000 Guilford College.

Laura Thaut Vinson. Associate professor of international affairs. African politics, ethnic/civil conflicts. PhD 2013, MA 2009 University of Minnesota. BA 2005 Whitworth University.

Todd Watson. Associate professor of psychology, co-director of the neuroscience program. Cognitive neuroscience, brain and behavior, statistics. PhD 2005 State University of New York at Stony Brook. MA 2000 Radford University. BS 1997 Pennsylvania State University.

Yueping Zhang. Associate professor of psychology. Behavioral neuroscience, brain and behavior, drugs and behavior, cross-cultural psychology. PhD 1996, MA 1992 University of New Hampshire. MD 1985 Shandong Medical University.

Rishona Zimring. Professor of English. Modern British literature, postcolonial literature. PhD 1993, BA 1985 Yale University.

Carolyn Zook. Associate Director for the Center for Community and Global Health. PhD University of Pittsburgh. MS Portland State University. BA Lake Forest College.

## Courses

### HEAL 200 Biostatistics in Public Health

Content: Analysis, interpretation, visualization, and presentation of public health data. Overview of measurement methods, descriptive statistics, confidence intervals, and bivariate hypothesis testing using t-tests, chi-square test analysis of variance and multiple comparisons, correlation and their non-parametric test equivalents, and power and sample size determinations.

Prerequisites: None.

Usually offered: Annually, spring semester.

Semester credits: 4.

### HEAL 210 Public Health

Content: Basic overview of current local, national, and global trends in both communicable and noncommunicable disease; the behavioral, social, and environmental determinants of population health, with a focus on causes of disparities in population health status; the organization of public health activities and their relation to other health-related activities (e.g., clinical care, emergency preparedness); analytical methods and the science of public health; the ethical challenges facing public health action; and emerging challenges for the field of public health. Mix of didactic material, case studies, and assignments to help students understand the role of public health, its relation to human-science fields, and the wide array of public-health career opportunities.

Prerequisites: ECON 103, MATH 105, MATH 123, MATH 255, or PSY 200.

Usually offered: Annually, fall, spring, and summer.

Semester credits: 4.

### HEAL 260 Global Health

Content: Introduction to essential concepts from public health disciplines that are the foundations of global health practice; designed to prepare students to critically examine public health issues from a global perspective. Students will apply concepts through class exercises and discussions on current global health challenges. Global health experts will share their experiences and lessons learned from implementing global health research and programs. Students will gain experience in applying frameworks in addressing diverse global health needs and examine the human rights and ethical dimensions of global public health, including conflicts among individuals, communities, and nations.

Prerequisites: None.

Usually offered: Annually.

Semester credits: 4.

### HEAL 299 Health Studies Independent Study

Content: Independent or directed study of topics not covered in depth in other courses, and/or faculty-supervised research projects. Details determined by the student in conference with the supervising faculty member.

Prerequisites: None.

Restrictions: Sophomore standing required.

Usually offered: Annually, fall and spring semester.

Semester credits: 1-4.

### HEAL 300 Health Studies Internship

Content: Applied field learning experience and exposure to health-oriented occupations and/or research settings. Becoming acquainted with important health-related institutions and their social impact. Theoretical, research-based, and practical frameworks for intervention.

Prerequisites: HEAL 210 or PSY 375. ECON 103, MATH 105, MATH 123, MATH 255, or PSY 200.

Usually offered: Annually, fall and spring semester.

Semester credits: 4.

**HEAL 315 Ethics in Public Health**

Content: Addresses ethical issues related to public health practice. Examination of such topics as: guidelines for ethical conduct of public health research and practice; issues related to autonomy, individual rights, power, coercion, stigma, and common good; social accountability; vulnerable populations; and ethical frameworks concerning community engagement. Students will critically explore ethical challenges in conducting public health research and practice in the U.S. and globally and ethical dimensions of community participation and engagement in public health.

Prerequisites: None.

Usually offered: Annually, spring semester.

Semester credits: 4.

**HEAL 340 Epidemiology**

Content: Epidemiology is the study of the distribution and determinants of health and disease in different human populations and the application of methods to improve disease outcomes. As such, epidemiology is the basic science of public health. In this course, students will learn and apply basic concepts of epidemiology to multiple domains of public health. We will illustrate and practice using epidemiology to better understand, characterize, and promote health at a population level. The class will engage the students in active and collaborative learning through team activities, individual projects, case studies, group discussion, and individual projects.

Prerequisites: ECON 103, MATH 105, MATH 123, MATH 255, or PSY 200.

Usually offered: Annually, spring semester.

Semester credits: 4.

**HEAL 345 Health Studies Practicum: Special Topic**

Content: Organized practicum in a health-related field, with strong academic, experiential, and pre-professional components. Anticipated special topics include peer counseling, narrative medicine, and health care administration.

Prerequisites: None.

Restrictions: Sophomore standing required.

Usually offered: Annually, fall and spring semester.

Semester credits: 1-4.