

HEALTH STUDIES CLUSTER

Training for the health professions requires knowledge of a broad array of subjects, both science and non-science. For those seeking careers in a wide variety of health professions such broad-based training begins at the undergraduate level. Increasingly, emphasis is placed on the quantitative, medical knowledge required for patient care, the interpersonal and communication skills required for working in health care teams, and the cultural competencies needed for working with a rapidly changing patient demographic.

The health studies course cluster offers students information about the types of courses at Wesleyan that provide appropriate background for those seeking careers in the health professions.

The goal of current health professions graduate programs is to create health professionals who have the knowledge, skills and flexibility to succeed in today's rapidly evolving health care environment. In addition to the commonly required science courses in biology, chemistry, and physics, studying anthropology, sociology, ethics, psychology, and statistics is an important aspect of preparation for any of the health professions, along with the ability to integrate and apply the knowledge obtained to improve health outcomes for all populations. Having appropriate courses listed in the cluster encourages students to sample the breadth of the curriculum while still achieving proficiency in the recommended areas. There are multiple courses in any one disciplinary area that can provide the needed information and conceptual foundation, so the cluster highlights many different courses offering appropriate content. We want to encourage students to pursue an integrative, interdisciplinary approach to their education in this area.

Students and advisors are encouraged to make use of the cluster listing when selecting courses to fulfill major, minor and certificate requirements, as well as general education expectations. By choosing from cluster courses students will gain proficiency in the health studies area while also mastering the in-depth disciplinary perspective that comes with their chosen major.

COURSES ASSOCIATED WITH THE CLUSTER

Code	Title	Hours
Biology, Molecular Biology and Biochemistry, Neuroscience and Behavior		
BIOL173	Global Change and Infectious Disease	
BIOL181	Principles of Biology I: Cell Biology and Molecular Basis of Heredity	
BIOL182	Principles of Biology II	
BIOL191	Principles of Biology I--Laboratory	
BIOL192	Principles of Biology II: Laboratory	
BIOL210	Genomics: Modern Genetics, Bioinformatics, and the Human Genome Project	
BIOL239	Functional Anatomy of the Human Brain	
BIOL265	Bioinformatics Programming	
BIOL318	Nature and Nurture: The Interplay of Genes and Environment	
BIOL325	Stem Cells: Basic Biology to Clinical Application	
BIOL353	Neurobiology of Neurological Disorders	
MB&B119	Biology and Chemistry in the Modern World: A Survey of Drugs and Disease	
MB&B228	Introductory Medical Biochemistry	
MB&B231	Microbiology	
NS&B213	Behavioral Neurobiology	

NS&B227	Motivation and Reward
NS&B228	Clinical Neuropsychology
NS&B316	Schizophrenia and Its Treatment: Neuroscientific, Historical, and Phenomenological Perspectives
NS&B329	Neural Costs of War
NS&B356	Neurodevelopmental Disorders
Methods/Quantitative Analysis	
MATH117	Introductory Calculus
MATH118	Introductory Calculus II: Integration and Its Applications
MATH119	Elements of Calculus, Part I
MATH120	Elements of Calculus, Part II
MATH121	Calculus I
MATH122	Calculus II
MATH132	Elementary Statistics
MATH232	Mathematical Statistics
NS&B280	Applied Data Analysis
NS&B392	Behavioral Methods in Affective Neuroscience
PSYC200	Statistics: An Activity-Based Approach
PSYC245	Psychological Measurement
Psychology	
PSYC222	Sensation and Perception
PSYC225	Cognitive Neuroscience
PSYC259	Discovering the Person
Social Science/Humanities	
AMST256	Race and Medicine in America
ECON308	Healthcare Economics
ENGL132	Writing Medicine and the Doctor-Writer
GOVT271	Political Economy of Developing Countries
HIST393	Materia Medica: Drugs and Medicines in America
PHIL215	Humans, Animals, and Nature
SISP215	Metabolism and Technoscience
SOC241	Mental Illness and Society
SOC313	Time, Masks, Mirrors: Aging in America
SOC399E	Advanced Research Seminar: Food and Society (no longer active)
Environmental Studies	
ENVS260	Global Change and Infectious Disease
ENVS361	Living in a Polluted World
HIST135	American Food
Chemical and Physical Sciences	
CHEM141	General Chemistry I
CHEM152	Introductory Chemistry Laboratory
CHEM251	Organic Chemistry I
CHEM252	Organic Chemistry II
CHEM257	Intermediate Chemistry Laboratory
CHEM258	Organic Chemistry Laboratory
CHEM309	Molecular and Cellular Biophysics
CHEM321	Biomedical Chemistry
CHEM325	Introduction to Biomolecular Structure
CHEM381	Physical Chemistry for the Life Sciences

CHEM383	Biochemistry
CHEM387	Enzyme Mechanisms
PHYS111	Introductory Physics I
PHYS112	Introductory Physics II
PHYS113	General Physics I
PHYS116	General Physics II
PHYS121	Introductory Physics Laboratory I
PHYS122	Introductory Physics Laboratory II
PHYS123	General Physics Laboratory I
PHYS124	General Physics Laboratory II