

HUMAN MEDICINE HM

College of Human Medicine

- 101 Introduction to Public Health**
Spring. 3(3-0)
Core public health philosophies and concepts. Health and disease – measures, determinants, health promotion and disease prevention. Introduction to health care delivery systems. Career opportunities in public health.
- 491 Special Topics in Bioethics and Medical Humanities**
Fall, Spring, Summer. 2 to 7 credits. R: Not open to freshmen or sophomores.
Special topics in ethics and humanities of health care, proposed by faculty on a group study basis.
- 501 Preceptorship Training**
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 24 credits in all enrollments for this course. Interdepartmental with Family Practice. Administered by Human Medicine. RB: One year of graduate-professional program in College of Human Medicine.
Field experience in primary care.
- 511 Infectious Disease and Immunology**
Fall. 3 credits. RB: Not open to first year students. R: Open only to graduate-professional students in College of Human Medicine.
Basic sciences applied to clinically relevant situations. Problem-based small group experiences.
- 513 Neurological Domain**
Fall. 3(3-0) RB: Not open to first year students. R: Open to graduate-professional students in the College of Human Medicine.
Basic sciences applied to clinically relevant situations. Problem-based learning small group experiences.
- 515 Cardiovascular Domain**
Spring. 4(4-0) RB: Not open to first year students. R: Open to graduate-professional students in the College of Human Medicine.
Basic sciences applied to clinically relevant situations. Problem-based learning small group experiences.
- 516 Disorders of Thought, Emotion, and Behavior Domain**
Fall. 4(4-0) RB: Not open to first year students. R: Open to graduate-professional students in the College of Human Medicine.
Basic science applied to clinically relevant situations. Problem-based learning small group experiences.
- 517 Musculoskeletal Domain**
Fall. 2(2-0) RB: Not open to first year students. R: Open to graduate-professional students in the College of Human Medicine.
Basic science applied to patient cases. Problem-based learning small group teaching.
- 525 Pulmonary Domain**
Spring. 3(3-0) RB: Not open to first year students. R: Open to graduate-professional students in the College of Human Medicine.
Basic sciences applied to clinically relevant situations. Problem-based learning small group experiences.
- 526 Urinary Tract Domain**
Spring. 3(3-0) RB: Not open to first year students. R: Open to graduate-professional students in the College of Human Medicine.
Basic sciences applied to clinically relevant situations. Problem-based learning small group experiences.
- 527 Digestive Domain**
Spring. 3 credits. RB: Block I. Not open to first year students. R: Open only to graduate-professional students in College of Human Medicine.
Basic sciences applied to clinically relevant situations. Problem-based small group experiences.
- 528 Metabolic and Endocrine and Reproductive Domain**
Spring. 3 credits. RB: Block I. Not open to first year students. R: Open only to graduate-professional students in College of Human Medicine.
Basic sciences applied to clinically relevant situations. Problem-based small group experiences.
- 531 Clinical Skills I**
Fall. 2(1-2) R: Open only to graduate-professional students in the College of Human Medicine.
Basic principles of doctor-patient relationship, core interviewing techniques. Exposure to clinical arena.
- 532 Clinical Skills II**
Spring. 2(1-2) RB: HM 531 R: Open only to graduate-professional students in the College of Human Medicine.
Adult screening physical examination and its integration with data-gathering skills.
- 533 Clinical Skills III**
Summer. 2(2-0) RB: HM 532 R: Open to graduate-professional students in the College of Human Medicine.
Age specific screening examinations and integration with data-gathering skills. Skill-oriented content will be supplemented with theoretical material covering the human lifespan.
- 534 Clinical Skills IV**
Fall. 2(1-2) RB: HM 533 R: Open only to graduate-professional students in College of Human Medicine.
Advanced interviewing and physical examination skills. Communication of patient-related data with the patient and other health professionals, orally and in writing. Problem solving.
- 535 Clinical Skills V**
Spring, Summer. 2(1-2) RB: HM 535 R: Open only to graduate-professional students in College of Human Medicine.
Advanced interviewing and physical examination skills. Oral case presentations and written medical records. Introductory problem solving skills.
- 537 Topics in Reproductive Health**
Fall. 1(1-0) R: Open only to graduate-professional students in the College of Human Medicine, the College of Osteopathic Medicine, and to graduate students in the College of Nursing.
Pre-clinical focus on topics of reproductive health.
- 539 Hematopoietic/Neoplasia Domain**
Fall. 4(4-0) RB: Not open to first year students. R: Open to graduate-professional students in the College of Human Medicine.
Learn and apply advanced concepts of the basic sciences to clinically relevant situations. Problem-based learning small group experiences.
- 546 The Social Context of Clinical Decisions**
Fall. 1(1-0) RB: Completion of Block I requirements. R: Open only to graduate-professional students in College of Human Medicine.
Social perspectives on medicine and medical care.
- 547 The Social Context of Clinical Decisions II**
Spring. 2(2-0) RB: HM 546 R: Open only to graduate-professional students in College of Human Medicine.
Issues and concepts related to social and professional responsibilities of physicians.
- 548 Medical Humanities Seminar**
Spring. 2(2-0) RB: HM 547 R: Open only to graduate-professional students in College of Human Medicine.
Issues related to the humanities and human values pertinent to medical practice.
- 550 International Law and Ethics of Human Subject Research**
Fall. 2(2-0) R: Open to graduate students or graduate-professional students or approval of department.
Interdisciplinary understanding of the substance and interrelationships of international law and ethics in protecting human subjects of biomedical and behavioral research.
- 551 U.S. Law and Ethics of Human Subject Research**
Spring. 2(2-0) R: Open to graduate students or graduate-professional students or approval of department.
Interdisciplinary understanding of the substance and interrelationships of U.S. law and ethics in protecting human subjects of biomedical and behavioral research.
- 561 Basic Principles of Pathology**
Spring. 2 credits. Interdepartmental with Osteopathic Medicine. Administered by Human Medicine. R: Open only to graduate-professional students in the colleges of Human and Osteopathic Medicine. SA: PTH 542
Fundamental pathologic processes. Clinical applications.
- 571 Integrative Clinical Correlations I**
Fall. 2(2-0) RB: (ANT 551 or concurrently) and (BMB 521 or concurrently) and (PSL 501 or concurrently) R: Open only to graduate-professional students in the College of Human Medicine.
Correlation of the principles of the basic biological and behavioral sciences with disciplines of clinical medicine using case presentations.
- 572 Integrative Clinical Correlations II**
Spring. 1(1-0) RB: (HM 571 or concurrently) and (ANTR 552 or concurrently) and (ANTR 562 or concurrently) and (PTH 542 or concurrently) R: Open only to graduate-professional students in the College of Human Medicine.
Correlation of the principles of the basic biological and behavioral sciences within the disciplines of clinical medicine using case presentations.
- 581 Mentor Program**
Fall. 1(0-2) R: Open only to graduate-professional students in the College of Human Medicine.
Dimensions of being a physician. Performance skills needed for patient care and interaction with medical workers. Current trends.

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- 582 Mentor Program Year II**
Fall, Spring. 1(0-2) A student may earn a maximum of 2 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Human Medicine.
Continuing exploration of the dimensions of being a physician. Professional skills needed to interact with patients and medical workers. Current trends.
- 590 Special Topics in Medicine**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 34 credits in all enrollments for this course. R: Open to students in the College of Human Medicine.
Special topics related to healthcare covering a wide variety of disciplines and fields
- 591 Special Problems in Human Medicine**
Fall, Spring, Summer. 1 to 34 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open only to graduate-professional students in the College of Human Medicine.
Work under the direction of a faculty member on an experimental, theoretical, or applied problem that requires a broad, interdisciplinary approach.
- 608 Sub-Specialty Clerkships**
Fall, Spring, Summer. 4 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: FMP 602 R: Open only to graduate-professional students in College of Human Medicine.
Hospital-and office-based clinical experiences in sub-specialties in medicine and surgery.
- 609 Laboratory Medicine Clerkship**
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 16 credits in all enrollments for this course. Interdepartmental with Osteopathic Medicine. Administered by Human Medicine. R: Open only to graduate-professional students in College of Human Medicine or Osteopathic Medicine. SA: PTH 609
Laboratory procedures. Correlation of laboratory data with morphologic abnormalities in patients with pathophysiology.
- 610 Pathology Clerkship**
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 12 credits in all enrollments for this course. Interdepartmental with Osteopathic Medicine. Administered by Human Medicine. R: Open only to graduate-professional students in College of Human Medicine or Osteopathic Medicine. SA: PTH 608
Anatomic and clinical pathology with emphasis on clinical-pathological correlation. Conducted in pathology departments of affiliated hospitals.
- 629 Leadership in Medicine for Underserved or Vulnerable Communities**
Spring. 6 credits. P: PHD 600 and MED 608 and FMP 608 and PSC 608 and OGR 608 and SUR 608 R: Open to graduate-professional students in the College of Human Medicine. Approval of college. SA: MED 629
Issues involved in securing access to medical care and community resources for families in medically underserved communities.
- 631 Advanced Leadership in Medicine for Underserved or Vulnerable Communities**
Spring. 6 credits. P: HM 629 R: Open to graduate-professional students in the College of Human Medicine. Approval of college. SA: MED 631
Continuation of HM 629. Medical care of an underserved or vulnerable population in a rural, urban, or international setting. Development of abilities to intervene in the public health issues of this population.
- 635 Core Competencies I**
Fall, Spring, Summer. 2(2-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Human Medicine.
Core knowledge and skills from an interdisciplinary perspective.
- 636 Core Competencies II**
Fall, Spring, Summer. 2(2-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Human Medicine.
Core knowledge and skills from an interdisciplinary perspective.
- 637 Core Competencies III**
Fall, Spring, Summer. 2(2-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Human Medicine.
Core knowledge and skills from an interdisciplinary perspective.
- 640 Service Learning In the Community**
Fall, Spring, Summer. 1(1-0) R: Open to graduate-professional students in the College of Human Medicine.
Demonstrate preparation and planning to provide services which respond to community need. Participate for 40 hours with community organization. Demonstrate reflectivity on participation in services.
- 641 Clinical Skills Competence Experience**
Fall. 6(6-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of college.
Review of communication skills, history-taking, and physical examination skills in faculty-observed patient encounters.
- 691 Research Clerkship**
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: (HM 690) or approval of community research director. R: Open only to graduate-professional students in the College of Human Medicine.
Biological, behavioral, or clinical research project.
- 801 Introduction to Public Health**
Fall. 3(3-0) RB: Academic or professional background in public health or public health-related discipline. R: Open to masters students in the Public Health major or in the Public Health Specialization.
Philosophy and concepts of the discipline of public health. History and development of the profession. Ethical, legal and political considerations. Provide first introduction to core public health areas.
- 802 Biostatistics for Public Health**
Fall. 3(3-0) RB: Academic or professional background in public health or public health-related discipline, undergraduate level math or statistics course work. R: Open to masters students in the Public Health major or in the Public Health Specialization.
Data management, analysis and presentation of public health data. Techniques and methods for calculating population-based statistics. Instruction using Epi-Info software package.
- 803 Epidemiology and Public Health**
Fall. 3(3-0) RB: Academic or professional background in public health or public health-related discipline, undergraduate level math or statistics course work. R: Open to masters students in the Public Health major or in the Public Health Specialization. Not open to students with credit in EPI 810 or EPI 811.
Distributions and determinants of disease in population. Epidemiologic research, quantitative methods, study designs pros/cons.
- 804 Public Health Administration**
Spring. 3(3-0) RB: Academic or professional background in public health or public health-related discipline, undergraduate level math or statistics course work. R: Open to masters students in the Public Health major or in the Public Health Specialization.
Planning, organization, administration, management, evaluation and policy analysis of public health. Legal and ethical considerations of public health.
- 805 Social and Behavioral Aspects of Public Health**
Spring. 3(3-0) RB: Academic or professional background in public health or public health-related discipline, undergraduate level math or statistics course work. R: Open to masters students in the Public Health major or in the Public Health Specialization.
Concepts and methods of social and behavioral sciences applied to public health problems and issues.
- 806 Environmental Factors of Health**
Spring. 3(3-0) RB: Academic or professional background in public health or public health-related discipline, undergraduate level math or statistics course work. R: Open to masters students in the Public Health major or in the Public Health Specialization.
Biological, physical and chemical factors that affect health of populations. Regulatory approaches to environmental hazards. Potential impact of environmental agents on health and preventive management approaches.
- 820 Humanistic and Social Perspectives on Health**
Fall. 3(3-0) R: Open only to students in the M.A. program in Bioethics, Humanities, and Society SA: AL 820
Multidisciplinary perspectives on health care and medicine. Linkages among the humanities, social sciences and the sciences.
- 830 Practical Applications of Public Health Law**
Fall of odd years. 3(3-0) P: HM 801 RB: Academic or professional background in public health or public health related discipline. R: Open to students in the Public Health major or approval of college.
Overview of legal basis of public health authority. Use of law to direct public health practice.

- 831 Communicable Disease in Public Health**
Fall of even years. 3(3-0) P: HM 801 and HM 803 RB: Academic or professional background in public health or public health related discipline. Undergraduate level math or statistics course work. R: Open to students in the Public Health major or approval of college.
Fundamentals of communicable disease transmission. Overview of methods for prevention and control of communicable disease. Agents and organisms of public health significance.
- 832 Global Public Health**
Spring of even years. 3(3-0) RB: Academic or professional background in public health or public health related discipline. Undergraduate level math or statistics course work. R: Open to students in the Public Health major or approval of college.
Factors and dynamics that affect global public health. Application of public health principles and policies in international settings. Key international stakeholders and their roles in global public health.
- 833 Introduction to Pharmaceutical Counterfeiting and Public Health**
Fall of odd years. 3(3-0) P: HM 801 RB: Academic or professional background in public health or public health related discipline. R: Open to students in the Public Health major or approval of college.
General principles of counterfeiting, counterfeit pharmaceuticals, and how it affects public health. Scope, policy, supply chain management, and health effects are examined using current case examples.
- 834 Advanced Counterfeit Pharmaceuticals Readings**
Spring of even years. 3(3-0) P: HM 801 and HM 833 RB: Academic or professional background in public health or public health related discipline. R: Open to students in the Public Health major or approval of college.
Advanced topics on the impact of counterfeit pharmaceuticals on public health.
- 835 Independent Study in Public Health**
Fall, Spring, Summer. 1 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to students in the Public Health major or approval of college.
Independent study in areas relevant to public health.
- 836 Comparative Global Healthcare Systems**
Spring. 3(3-0) RB: Undergraduate degree in science or applied science with experience in a healthcare clinical setting. R: Open to students in the Public Health major or approval of college.
Public health and culture, environment, psychosocial and economic issues. Healthcare systems and health policies. Community health assessments.
- 837 Poverty and Public Health**
Fall of even years. 3(3-0) P: HM 801 RB: Academic or professional background in public health or public health related discipline. Undergraduate level math or statistics course work. R: Open to students in the Public Health major or approval of college.
Concepts of health and poverty and their interrelatedness from a global and public health perspective. Roles of international agencies, national policy, gender, socioeconomic status, race, ethnicity, culture, access to resources, and conflict. Role of public health programs in the achievement and maintenance of healthy populations. Struggle to eliminate poverty.
- 838 Cultural Aspects of Public Health Practice**
Fall. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, undergraduate level math or statistics coursework R: Open to students in the Public Health major or approval of college.
Cultural concepts that shape health and illness. Major issues and trends in global health. Cultural and socioeconomic factors related to work with diverse populations. Applications for public health practice.
- 839 Water and Public Health: A Global Perspective**
Spring of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or in the Public Health Specialization or approval of college.
Role of water in public health, focusing on the global crisis of water quantity and quality. Specific water "hot spots" primarily the Middle East, Africa, Asia, the Western and Southern U.S., and Mexico.
- 840 Public Health Finance**
Spring of odd years. 3(3-0) RB: Academic or professional background in public health or public health related discipline, experience with databases. R: Open to students in the Public Health major or approval of college.
Issues surrounding financial administration of health service organizations. Pragmatic side of healthcare finance, incorporating healthcare economics.
- 841 Public Health Policy**
Fall. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or in the Public Health Specialization or approval of college.
U.S. healthcare delivery and financing systems and their contributions to improving health status.
- 842 Introduction to Public Health Informatics**
Fall of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Survey of information technology applications in the public health domain, functions and tools used to generate public health knowledge. Disease surveillance platforms and web-based public health education, ethical and legal issues surrounding data exchange.
- 843 Methods in Public Health Informatics**
Fall of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Theory, processes and applications of management information systems and how they relate to public health mgmt, project management skills for information system implementation and evaluation
- 844 Legal/Ethical Issues in Public Health Informatics**
Spring of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Focus on legal-ethical parameters affecting application of health technology.
- 845 Informatics and Information Technology**
Spring of odd years. 3(3-0) P: HM 842 and HM 843 RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Information technology for health informatics systems, principles of relational database systems, operations, information systems, data sets, data standards and classification systems.
- 846 Advanced Topics in Public Health Informatics Management**
Summer of odd years. 3(3-0) P: HM 842 and HM 843 and HM 845 RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Research, evaluation and applications of informatics in public health and public health research.
- 847 Healthcare in Ghana: A Public Health Perspective**
Summer. 4(4-0) Summer: Abroad. P: HM 848 RB: Academic or professional background in public health and/or public health related discipline; undergraduate level health-related discipline R: Open to students in the Public Health major and open to juniors or seniors. Approval of college; application required.
Overview of major public health issues and the health care system, both Western and traditional, in Ghana. Health status indicators and determinants; major programs/strategies; organization of the health care system, access to and payment for care; role, image and status of health care providers; interface between Western and traditional medicine.
- 848 Preparation for Healthcare in Ghana**
Spring. 1(1-0)
Preparation for public health study abroad experiences in Ghana.

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- 849 Healthcare in Brazil: A Public Health Perspective**
Summer. 8(8-0) Summer: Abroad. P: HM 850 RB: Academic or professional background in public health and/or public health related discipline; undergraduate level health-related discipline R: Open to students in the Public Health major and open to juniors or seniors. Approval of college; application required.
Overview of major public health issues and the health care system in Brazil. Health status indicators and determinants of health and the legal basis and structure of the Brazilian health care system and social safety net. Includes field experiences with local health care providers and political leaders.
- 850 Preparation for Healthcare in Brazil**
Spring. 1(1-0)
Preparation for public health study abroad experiences in Brazil.
- 851 eHealth and Telemedicine in Public Health**
Spring of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Application of information and telecommunication technologies to the provision of healthcare including the use of mobile telephones in mHealth (Mobile Health). Benefits and applications of eHealth, telemedicine and mHealth both domestically and internationally.
- 852 Outbreak Investigations in Public Health**
Spring of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Process for conducting public health outbreak investigations including the role of local, state, federal and international agencies. Legal, political, media and law enforcement issues.
- 853 Public Health Program/Intervention Evaluation**
Fall of even years. 3(3-0) P: HM 801 RB: Academic or professional background in public health and/or public health related discipline R: Open to graduate students in the Public Health major or approval of college.
Introduce public health program evaluation methods/tools. Causal inference criteria, standard evaluation guides, procedural and outcome evaluation methods and needs assessment and performance monitoring methods. Integrates epidemiology, biostatistics and public health knowledge pertaining to program evaluation.
- 854 Health Equity Framework For Public Health Practice**
Spring of odd years. 3(3-0) RB: Academic or professional background in Public Health and/or public health related discipline R: Open to students in the Public Health major or in the Public Health Specialization or approval of college.
Social justice and health equity framework for the practice of public health with analysis of persistent health disparity across race, class, gender, and other forms of difference.
- 856 Environmental Public Health: Assessment and Response**
Spring of odd years. 3(3-0) P: HM 806 and (HM 802 or HM 803) RB: Academic or professional background in public health and/or public health related discipline, experience with public health statistics. R: Open to students in the Public Health major or approval of college.
Provide students with a conceptual foundation, practical skills and exposure to community-based methodologies for identifying and assessing environmental issues and developing strategies for improvement.
- 857 International Public Health Experience in Mexico**
Spring of odd years. 1(1-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college. C: PRR 410 concurrently.
International public health field experience designed to provide students exposure to the culture and health problems facing local communities through hands-on practical experience in Mexico.
- 858 Occupational Health and Safety in Public Health**
Spring of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Physical, biological and chemical hazards in terms of recognition, assessment, and control of workplace hazards. Current regulations, standards, personal protective equipment, monitoring equipment and career opportunities are covered.
- 859 Making a Community Diagnosis**
Spring of odd years. 1(1-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
Concept and methods used in conducting community assessments (nationally and globally) – exploring key health indicators, environmental factors and community resources used to identify problems in a population.
- 860 Migrant, Refugee and Mobile Populations: Impact on Public Health**
Fall of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Core public health issues prevalent and sometimes elusive in immigrant, refugee and mobile populations. Historical context, health care delivery, access and other barriers to preventive care, social justice, cultural competence, health policy, program challenges, measurement and data assimilation.
- 861 Introduction to Public Health Nutrition**
Spring of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Biological principles of nutrition and physical activity with public health focus. Nutritional issues in specific populations. Introduction to malnutrition, current issues in nutrition, role of nutrition in chronic diseases, and nutrition policy and intervention programs.
- 863 Parasitic Diseases and Public Health in Developing Countries**
Spring of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, knowledge of parasitology R: Open to students in the Public Health major or approval of college.
Nature, impact and control of parasitic diseases in developing countries.
- 864 Intersections of Human and Animal Health**
Summer of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to graduate students in the Public Health major or approval of college.
Epidemiology and preventive medicine disease control methods for the control of infectious diseases and environmental health issues shared by animals and people.
- 865 Vitamins and Minerals: Risks to Public Health**
Spring of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
Introduction to public health issues in vitamin and mineral nutrition, including biological roles, human requirements, and consequences of deficiency and excesses. Current issues regarding specific micronutrient status in U.S. and worldwide. Current and proposed population-based interventions.
- 866 U.S. Healthcare Access and Delivery for Migrant, Refugee, and Mobile Populations**
Summer of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
Impact and challenges posed to U.S. Public Health system by migrant, refugee and mobile populations entering the United States and core public health issues they face. Barriers to prevention including health care access and delivery, social justice, cultural and language competence, workplace and environmental factors. Issues in measurement and data assimilation.
- 867 Demography, Population Dynamics and Public Health**
Spring of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
Methods and concepts in the study of population change. Analytical approaches for analyzing and interpreting population changes. Applications in planning, policy-making and administration.
- 868 Integrated Research Study Design and Informatics**
Fall of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, nursing or allied health R: Open to students in the Public Health major or approval of college.
Introduction to clinical trial phases, research design, informatics aims, informatics platforms and datum lifecycle.

- 869 Psychiatry and Public Health: A Bio-Psycho-Social Perspective**
 Fall of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
 Overview of common psychiatric diagnoses across the ages highlighting sociological and economic determinants of treatment and outcomes.
- 870 Zoonotic Diseases of Public Health Importance**
 Fall of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health major or approval of college.
 Zoonotic diseases by agent (bacterial, viral, parasitic, prion, rickettsial, fungal), modes of transmission (direct, indirect-food, water, vectorborne), and human, animal, environmental interactions leading to disease intervention/control methods. Impacts of climate change and changing dynamics of the human population (migration, global travel, shifts in housing preferences and urbanization) and the animal population.
- 871 Vaccine Preventable Diseases of Public Health Importance**
 Spring of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
 Vaccine-preventable diseases of importance to the public health and the global community. Basic epidemiology, surveillance, vaccine updates, status of the vaccination programs, associated cost, benefits, and related public health policies. Current controversies associated with national and international disease control, elimination, and eradication campaigns.
- 872 Global Public Health in Action**
 Summer of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline. Basic knowledge of public health issues and epidemiology are essential R: Open to students in the Public Health major or approval of college.
 Qualitative research methods and analysis using case studies in national and international public health. Development of a case study.
- 873 Maternal and Child Health: A Global Public Health Perspective**
 Spring of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
 Introduction to historical and cultural foundations of maternal and child global public health. Health care needs, health determinants and disparities, programs, policies and public health issues affecting women and children.
- 874 Critical Thinking for Public Health Practitioners**
 Spring of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
 Processes of questioning assumptions and determining causality explored through public health case studies. Cognitive psychology, thinking about thinking, cognitive biases and fallacies, brainstorming, innovative thinking. The scientific method of inductive and deductive reasoning, developing and testing hypotheses, experiments, and seeking explanations.
- 875 Applications of Open Source Information in Public Health Intelligence**
 Spring of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
 Introduction to techniques of collection of open source and publicly available information applied to public health intelligence issues. Conceptual and practical skills for preparing an intelligence report (OSINT).
- 876 Nutrition and Chronic Diseases: Living Longer and Healthier**
 Summer of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
 Role of nutrition and physical activity in chronic diseases with emphasis on macronutrients. Relationship between obesity and health and socioeconomic disparities in the United States and current policies. Overview of nutrition transition and impact on developing nations.
- 877 Public Health Nutrition and the Life Stages**
 Fall of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
 Effect of nutrition on growth and development. Role of public health interventions throughout life. Emphasis on at-risk populations in the United States and worldwide. Survey of current programs addressing specific public health nutrition concerns.
- 878 Applied Biostatistics for Public Health Practitioners**
 Fall of even years. 3(3-0) P: HM 802 RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
 Application of multivariate logistic and linear regression models. Design and analysis of Public Health Intervention studies. Statistical sampling theory and survey design. Introduction to SAS (Statistical Analysis System).
- 881 Pathogenesis of Parasitic Infections Important to Public Health**
 Summer. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health major or approval of college.
 Specific causes and progression of major parasitic diseases important to global public health; diverse aspects of the host's responses to the invasion by these organisms; protective and pathogenic immune responses; development of clinical disease; role of chemotherapy development of clinical disease; effects of chemotherapeutic agents; epidemiological discussion of the importance of quantification of the pathology and clinical disease seen in populations.
- 890 Independent Study in Bioethics**
 Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to masters students in the Bioethics, Humanities, and Society major. Approval of department.
 Special projects, directed readings, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.
- 891 Introduction to Public Health Practicum**
 Fall, Spring, Summer. 1(1-0) P: HM 801 RB: Academic or professional background in public health or public health-related discipline, undergraduate level math or statistics course work. R: Open to students in the Public Health major.
 Preparatory work for practicum placement. Special projects arranged by an individual student and faculty member in areas supporting practicum placement.
- 892 Public Health Practicum**
 Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 8 credits in all enrollments for this course. P: HM 801 and HM 891 RB: Academic or professional background in public health or public health-related discipline, undergraduate level math or statistics course work. R: Open to students in the Public Health major.
 Professional internship.
- 893 Public Health Capstone**
 Fall, Spring, Summer. 1 to 2 credits. A student may earn a maximum of 2 credits in all enrollments for this course. P: HM 801 and HM 891 and HM 892 RB: Academic or professional background in public health and/or public health related discipline, undergraduate level math or statistics coursework R: Open to students in the Public Health major.
 Capstone experience.
- 894 Practicum in Bioethics**
 Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: HM 820 R: Open to masters students in the Bioethics, Humanities, and Society major. Approval of department.
 Observations, participation, and study of ethical and policy issues in selected health, research, or governmental settings.
- 898 Master's Research**
 Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Open only to students in the M.A. program in Bioethics, Humanities, and Society.
 Directed research in support of master's program requirements.

Human Medicine—HM

899 Master's Thesis Research

Fall, Spring, Summer. 1 to 9 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
Master's thesis research.