525 Pulmonary Domain
Spring. 3(3-0) RB: Not open to first year stu-
dents. R: Open to graduate-professional stu-
dents in the College of Human Medicine.
Basic sciences applied to clinically relevant situa-
tions. Problem-based learning small group experi-
ences.

526 Urinary Tract Domain
Spring. 3(3-0) RB: Not open to first year stu-
dents. R: Open to graduate-professional stu-
dents in the College of Human Medicine.
Basic sciences applied to clinically relevant situa-
tions. Problem-based learning small group experi-
ences.

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 situa-
tions. 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 situa-
tions. Problem-based small group experiences.

531 Clinical Skills I
Fall. 2(1-2) R: Open only to graduate-profes-
sional students in the College of Human Medicine.
Basic principles of doctor-patient relationship, core inter-
viewing techniques. Exposure to clinical arena.

532 Clinical Skills II
Spring. 2(1-2) RB: HM 531 R: Open only to graduate-profes-
sional students in the College of Human Medicine.
Adult screening physical examination and its integra-
tion with data-gathering skills.

533 Clinical Skills III
Summer. 2(2-0) RB: HM 532 R: Open to graduate-professional students in the Col-
lege 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.
HM—Human Medicine

556 Medical School V
Spring. 16 credits. A student may earn a maximum of 32 credits in all enrollments for this course. P: HM 555 R: Open to graduate-professional students in the College of Human Medicine. Continuation of an interdisciplinary, patient centered experience, integrating necessary biomedical and social sciences and humanities with clinical skills and professional development. Includes selective to develop areas of strength and remediate gaps.

561 Basic Principles of Pathology
Spring. 2 credits. R: Open to students in the College of Human Medicine. SA: PTH 542 Fundamental pathologic processes. Clinical applications.

571 Integrative Clinical Correlations I
Fall. 2(2-0) R: (ANT 551 or concurrently) and (BMB 521 or concurrently) and (FSL 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) R: (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.

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 subspecialties in medicine and surgery.

609 Laboratory Medicine Clerkship
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. Interdepartmental with Osteopathic Medicine. Administered by Human Medicine. R: Open to graduate-professional students in the College of Human Medicine or in the College of Osteopathic Medicine. SA: PTH 609 Laboratory procedures. Correlation of laboratory data with morphologic abnormalities in patients with pathophysiolog.

610 Pathology Clerkship
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. Interdepartmental with Osteopathic Medicine. Administered by Human Medicine. R: Open to graduate-professional students in the College of Human Medicine or in the College of Osteopathic Medicine. SA: PTH 608 Anatomic and clinical pathology with emphasis on clinical-pathological correlation. Conducted in pathology departments of affiliated hospitals.

611 Hospice Clerkship
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Human Medicine. Treatment and interdisciplinary team evaluation in hospice medicine. Advanced care directive processes and procedures.

612 Pain Medicine
Fall, Spring, Summer. 6(6-0) A student may earn a maximum of 18 credits in all enrollments for this course. R: Open to students in the College of Human Medicine. Evaluation and management of pain in acute and chronic disease settings. Evidence-based principles of pain medicine. Pain pharmacology. Trigger point injections, bursa injections, joint injections, peripheral nerve blocks and injections. Pain rehabilitation, prevention and interdisciplinary management.

613 Complementary Medicine Clerkship
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: HM 556 R: Open to graduate-professional students in the College of Human Medicine. Evidence based management of disease and symptoms with complementary and alternative medicine.

614 Student-Designed Elective Clerkship
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: HM 556 R: Open to graduate-professional students in the College of Human Medicine. Customized experience clinical science skills and knowledge. Clinical performance evaluation.

622 Practical Application of Public Health Principles—Planning a Community Project
Fall, Spring, Summer. 6(6-0) P: HM 623 R: Approval of college. Research and planning for a group community project. Practical application of public health principles including epidemiology, biostatistics, health and public policy, public health administration structure and function, health behavior, health education, environmental health and community assessment.

623 Practical Application of Public Health Principles—Implementing a Community Project
Fall, Spring, Summer. 6(6-0) P: HM 622 R: Approval of college. Implementation, analysis, and documentation of group community project planned in HM 622.

629 Leadership in Medicine for Underserved or Vulnerable Communities
Spring. 6 credits. P: PHD 600 and MED 608 and FM 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.

632 Rural Community Health
Spring. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: Completion of preclinical requirements for the Leadership in Rural Medicine Certificate. R: Approval of college. Patient centered and community based experiences in rural medicine and rural medical health systems.

633 Advanced Rural Community Health
Spring. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: Completion of preclinical requirements for the Leadership in Rural Medicine Certificate. R: Approval of college. Advanced clinical skills, knowledge, and experience in rural patient medicine, rural community medicine, and rural medical health systems.

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.
Core knowledge and skills from an interdisciplinary perspective.

Interdisciplinary small group course for advanced medical students combining advanced clinical skills with deep exploration of scientific and humanities literature underlying these skills.

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Interdisciplinary small group course for advanced medical students combining advanced clinical skills with deep exploration of scientific and humanities literature underlying these skills.

Critical care experience in medicine.

Critical care experience in medicine.

Critical care experience in medicine.

Clinical Skills Competence Experience
Fall, Spring, Summer. 6 credits. 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.

Critical Care in the Late Clinical Experience
Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P: HM 556 and (MED 641 or PhD 641 or SUR 641) R: Open to graduate-professional students in the College of Human Medicine. Approval of college. Critical care experience in medicine.

Advanced Skills and Knowledge in Medical School I
Fall, Spring. 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. P: HM 654 R: Open to graduate-professional students in the College of Human Medicine. Introduction to public health policy and core knowledge areas. Ethical, legal and political considerations. Emphasis on principles and tools for population health, disease prevention and health promotion, health determinants, healthcare and public health systems.

Introduction to public health in the workplace and in the community. Critical thinking, reading skills, explanations, problem solving, and decision making in public health using case studies. Questioning assumptions, identifying bias, determining causality, and application of the scientific method. Reporting guidelines and systematic literature reviews.

HM—Human Medicine
808 Public Health Surveillance
Summer of odd years. 3(3-0) RB: Academic or professional background in public health, epidemiology and/or public health related discipline. R: Open to students in the Public Health Major or approval of college. Public health issues that affect health status, health policies, and development of this population. Role of youth development strategies, community investment, social media, and life-skill development for this generation.

809 Adolescence to Early Adulthood: Key Issues for Public Health Practice
Fall 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 approval of college. Public health issues that affect health status, health policies, and development of this population. Role of youth development strategies, community investment, social media, and life-skill development for this generation.

810 GIS and Public Health
Fall 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 approval of college. Introduction to the application of geographic information science (GIS) and geography in public health. Spatial representation, visualization, exploration, and analysis of public health data using GIS.

812 Public Health and Healthcare for Migrant, Refugee and Mobile Populations
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. Utilization of multidisciplinary and interprofessional collaborations, networking, and partnerships to maximize existing public health resources and improve healthcare access and delivery for migrant, refugee and mobile populations.

813 Introduction to Qualitative Methods for Public Health Research
Fall 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 approval of college. Critique of qualitative health research. Principles of qualitative methodology, advantages and limitations of different approaches to data collection and analysis.

814 Making a Community Diagnosis II: Practical Applications
Summer. 2(2-0) P: HM 859 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. Continuation of HM 859. Skills and tasks required to plan, conduct, and communicate results of community assessment using case studies and real world examples. Barriers to implementation.

815 Introduction to Public Health Laboratory Data for Public Health Specialists
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. Develops analytic and assessment skills; lab test performance and interpretation; pathophysiological basis of abnormal test results for public health specialists to integrate laboratory data into public health programs and products.

816 Human Risk Assessment and Management in Public Health
Fall of even years. 3(3-0) P: HM 802 and HM 803 or approval of college RB: Coursework in statistics and probability assessment. R: Open to students in the Public Health Major or approval of college. Human risk assessment. Fundamentals of risk assessment in public health. Existing tools and data sources for conducting risk assessment in public health practice. Use of risk assessment to inform programs and policies.

817 Population Healthcare Analytics
Fall of even years. 3(3-0) RB: Background in public health, health care, or other health related fields. R: Open to students in the Public Health Major or approval of college. Introduction to healthcare analytics, the healthcare industry and the synergy between the two. Data manipulation, analyses and presentation of results. Highlights peculiarities, irregularities, and limitations of the healthcare industry and related data. Analytic tools and techniques used to create descriptive reports and predictive insights.

818 Six Sigma and Lean Methods 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 and quality initiatives. R: Open to students in the Public Health Major or approval of college. Application of Define, Measure, Analyze, Improve and Control (DMAIC) methodology to healthcare organizations and public health sector. History and theory, tools to engage staff and to define key stakeholders and process steps in Six Sigma and Lean Methods.

819 American Healthcare Delivery: A Systems Approach
Summer of odd years. 3(3-0) RB: Graduate students or professionals with public health, medical, law, policy background R: Open to students in the Public Health Major or approval of college. Evolution of United States healthcare system. The Affordable Care Act (ACA). Overview of funding and costs of healthcare delivery. Effect of ACA on future healthcare delivery and health professions.

822 Introduction to Core Disciplines of Public Health for Medical Students
Fall, Spring, Summer. 3(3-0) RB: Medical students with interest in public health R: Open to students in the Human Medicine Major or approval of college. Introduction to philosophy and concepts of discipline of public health and its relationship to clinical medicine. History and development of the profession; ethical, legal and political considerations.

823 Medical Partners in Public Health: Special Seminars
Fall, Spring, Summer. 3(3-0) P: HM 822 RB: Medical students with interest in public health R: Open to students in the Human Medicine Major or approval of college. Analysis, discussion, and application of key public health competencies in the community setting.

824 SAS Programming for Population Health Analytics
Spring of even years. 3(3-0) P: HM 817 RB: Background in public health, healthcare or other health related fields. R: Open to students in the Public Health Major or approval of college. SAS programming skills for the access and management of administrative healthcare data; delivers data management training in health strategies for leaders in the growing field of unstructured information processing.

827 Principles of Public Health Leadership
Fall, Spring. Summer. 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. Context, competencies and core leadership skills. Theories and research in public health and related organizations. Best practices, leadership styles, professional identity. Future leadership challenges.

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, Spring. Summer. 3(3-0) P: HM 801 and HM 803 RB: Academic or professional background in public health or public health related discipline. R: 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.
Advanced Counterfeit Pharmaceuticals: Analysis and Assessment

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.

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.

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.

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 coursework 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.

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.

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.

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.

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.

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.

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 management, project management skills for information system implementation and evaluation.

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.
HM—Human Medicine

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 guidelines, 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 graduate students in the Public Health major 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.

855 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.

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 I: Fundamentals
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 preventative 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 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 or public health related discipline R: Open to students in the Public Health Major or approval of college.

Methods and concepts in the study of population change. Approaches for analyzing and interpreting population changes. Applications for public health planning, policy, programs, administration and evaluation.

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 data management.

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.
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. 

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. 


Vaccines, Technologies, and 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 approval of college. 

Use of technology in public health practice and the role of telehealth and telemedicine. Examination of how technology is used to improve public health and its effects. 

Public Health Nutrition: Assessment and Intervention. 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. 

Assessment of nutritional and physical activity on a population level. Identification of at-risk populations. Collection, interpretation and application of data for developing interventions and evaluating behavior change and health outcomes. Role of public health and national nutrition institutions. 

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. 

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. 

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. 

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. 

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. 

Intermediate techniques and applications of multivariable logistic and linear regression in public health. Interpretation of statistical models. 

Ethnographic Approaches to Public Health Practice. 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. 

Use of ethnography and theory in public health research and practice. Through ethnography explore how culture, history and politics combine to influence how health and disease is approached by health professionals and experienced by communities. Use ethnographic research methods to examine a public health issue in local community. 

Study Design and Research Methods for Public Health Practice. Fall, Spring, Summer. 
3(3-0) P: HM 802 and HM 803 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. Not open to students with credit in VM 830. 

Examination of empirical and logical basis of public health research. Identification of research questions, study design, data collection and qualitative and quantitative approaches. Reporting of findings. Proposal writing. Ethical considerations in research. 

Pathogenesis of Parasitic Infections. 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 response 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. 

Decision Making and Technology Assessment in Healthcare and Public Health. Spring of odd years. 
3(3-0) RB: Academic or professional background in public health and/or public health related discipline and a familiarity with health information technology and telehealth concepts R: Open to students in the Public Health major or approval of college. 

Decision theory, assessment, project management, and program evaluation of information technology for public health including Telehealth, eHealth, and mobile technology for health (mHealth). 

Health Information Technology and Telehealth Technologies as Applied to Public Health. Summer of odd years. 
3(3-0) RB: Academic or professional background in public health and/or public health related discipline with an interest in new technologies and strategic planning and problem solving in public health R: Open to students in the Public Health major or approval of college. 

Introduction to health information technology and health information systems in healthcare and public health industries. Telehealth, eHealth, and mobile technologies for health (mHealth). 

Public Health Diagnosis and Interpretation of Parasitic Infections. Fall of even years. 
3(3-0) P: HM 863 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. 

Current approaches in the detection, measurement and field interpretation of parasitic infections at the individual level and community level.
Control and Eradication of Parasitic Infections of Public Health Importance
Spring of odd years. 3(3-0) P: HM 863 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.
Control programs, elimination/eradication of parasitic diseases of public health importance in developing countries.

Field Methodology for Investigating Parasitic Diseases of Public Health Importance
Summer of odd years. 3(3-0) P: HM 863 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.
Financial, personal, and logistical aspects of control programs for parasitic diseases. Practical applications in field methods.

Applied Epidemiologic Methods for Public Health Practitioners
Fall of even years. 3(3-0) Interdepartmental with Epidemiology. Administered by Human Medicine. P: HM 802 and HM 803 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.
Identification and conceptualization of public health problems. Generation of testable hypotheses and appropriate data sets. Interpretation of appropriate measures of associations. Evaluation of validity and generalizability of results and ethical issues surrounding the use of humans in epidemiological research. Real case studies are used to analyze study design including the role of chance, bias, misclassification, effect measure modification, interaction, and missing data.

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 master's 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.

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 coursework R: Approval of college.
Preparatory work for practicum placement. Special projects arranged by an individual student and faculty member in areas supporting practicum placement.

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 and HM 892 RB: Academic or professional background in public health and/or public health related discipline, undergraduate level math or statistics course work. R: Approval of college.
Professional practicum.

Public Health Capstone
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 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: Approval of college.
Capstone experience.

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 master's 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.

Clinical Medicine Capstone Experience
Fall, Spring, Summer. 3 to 6 credits. P: HM 552 and HM 553 and HM 554 and HM 555 and HM 556 R: Open to students in the College of Human Medicine.
Preparation and presentation of student's capstone project.

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.