<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>Preceptorship Training</td>
<td>3-8</td>
<td>Field experience in primary care.</td>
</tr>
<tr>
<td>511</td>
<td>Infectious Disease and Immunology</td>
<td>3</td>
<td>Basic sciences applied to clinically relevant situations.</td>
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<tr>
<td>513</td>
<td>Neurological Domain</td>
<td>3-0</td>
<td>Basic sciences applied to clinically relevant situations.</td>
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<tr>
<td>515</td>
<td>Cardiovascular Domain</td>
<td>4-0</td>
<td>Basic sciences applied to clinically relevant situations.</td>
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<tr>
<td>516</td>
<td>Disorders of Thought, Emotion, and Behavior Domain</td>
<td>4-0</td>
<td>Basic science applied to clinically relevant situations.</td>
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<tr>
<td>517</td>
<td>Musculoskeletal Domain</td>
<td>2-0</td>
<td>Basic science applied to patient cases.</td>
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<tr>
<td>525</td>
<td>Pulmonary Domain</td>
<td>3-0</td>
<td>Basic sciences applied to clinically relevant situations.</td>
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<tr>
<td>526</td>
<td>Urinary Tract Domain</td>
<td>3-0</td>
<td>Problem-based learning small group experiences.</td>
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<tr>
<td>527</td>
<td>Digestive Domain</td>
<td>3</td>
<td>Basic sciences applied to clinically relevant situations.</td>
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<tr>
<td>528</td>
<td>Metabolic and Endocrine and Reproductive Domain</td>
<td>3</td>
<td>Basic sciences applied to clinically relevant situations.</td>
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<tr>
<td>531</td>
<td>Clinical Skills I</td>
<td>2-1</td>
<td>Basic principles of doctor-patient relationship, core interviewing techniques.</td>
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<tr>
<td>532</td>
<td>Clinical Skills II</td>
<td>2-1</td>
<td>Adult screening physical examination and its integration with data-gathering skills.</td>
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<tr>
<td>533</td>
<td>Clinical Skills III</td>
<td>3</td>
<td>Specific screening examinations and integration with data-gathering skills.</td>
</tr>
<tr>
<td>534</td>
<td>Clinical Skills IV</td>
<td>2-1</td>
<td>Clinical applications and professional responsibilities of physicians.</td>
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<td>535</td>
<td>Clinical Skills V</td>
<td>2</td>
<td>Advanced interviewing and physical examination skills.</td>
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<tr>
<td>536</td>
<td>The Social Context of Clinical Decisions</td>
<td>2</td>
<td>Advanced interviewing and physical examination skills.</td>
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<tr>
<td>537</td>
<td>Topics in Reproductive Health</td>
<td>1-0</td>
<td>Oral case presentations and written medical records.</td>
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<tr>
<td>539</td>
<td>Hematopoietic/Neoplasia Domain</td>
<td>4-0</td>
<td>Pre-clinical focus on topics of reproductive health.</td>
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<tr>
<td>540</td>
<td>The Social Context of Clinical Decisions II</td>
<td>2-0</td>
<td>Pre-clinical focus on topics of reproductive health.</td>
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<tr>
<td>542</td>
<td>Medical Humanities Seminar</td>
<td>2-0</td>
<td>Basic Principles of Pathology</td>
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<td>543</td>
<td>Medical School I</td>
<td>2-0</td>
<td>Integrative Clinical Correlations I</td>
</tr>
<tr>
<td>544</td>
<td>Medical School II</td>
<td>2-0</td>
<td>Integrative Clinical Correlations II</td>
</tr>
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562 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.

612 Pain Medicine
Fall, Spring. 6(6-0) A student may earn a maximum of 18 credits in all enrollments for this course. P: SUR 608 and MED 608 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.

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. 6 credits. A student may earn a maximum of 18 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 experience in rural medicine and rural medical health systems.

633 Advanced Rural Community Health
Spring. 6(6-0) A student may earn a maximum of 18 credits in all enrollments for this course. RB: Completion of preclinical requirements for the Leadership in Rural Medicine Certificate. R: Approval of college. Provide students with experiences in rural medicine and rural community health that will enable them to better address the medical needs of rural populations.

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 Specialty. 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. Distributions and determinants of disease in populations. 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 majors 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.

807 Introduction to Critical Reading in Public Health
Summer 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.


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.

Introduction, history, and design of national, state and local public health surveillance systems for communicable diseases, chronic diseases, birth defects, injury, and disasters. Use of surveillance data sources.

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.

811 Public Health in the Middle East and North Africa
Summer. 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.

Introduction to public health in Middle East and North Africa; demography, disease patterns, food security, water, climate change. Effects of social justice and governance issues on public health such as health disparities, women/maternal and child health, aging, natural disasters and geopolitical conflicts.

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. R: Open to students in the Public Health Major or approval of college.

Development of 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.

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.


817 Population Healthcare Analytics
Fall of even years. 3(3-0) RB: Academic or professional 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.

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.


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. Undergraduate level math or statistics course work. 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. R: Open to students in the Public Health major or approval of college.

Independent study in areas relevant to public health.
Human Medicine—HM

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 interrelat-edness 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. Introduction to healthcare informatics, computer 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 Public Health in Ghana
Summer. 4(4-0) Summer: Abroad. P: HM 848 RB: Academic or professional background in public health and/or public 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 Ghana. 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.

848 Preparation for Healthcare in Ghana
Spring. 1(1-0) RB: Preparatory for public health study abroad experiences in Ghana.

849 Healthcare in Brazil: A Public Health Perspective
Summer, 8(8-0) Summer: Abroad. 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.

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; undergraduate level health-related discipline R: Open to graduate students in 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. Introduction 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 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 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 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.

862 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.

863 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.

864 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.

865 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.

866 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.

867 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 datam lifecycle.

868 Psychiatry and Public Health: A Biopsychosocial 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.

869 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.

870 Vaccine Preventable Diseases of Public Health Importance
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. Vaccine-preventable diseases of importance to the 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.

871 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.
Critical Thinking for Public Health

Introduction to historical and cultural foundations of maternal and child global public health. Health care needs, health determinants and disparities, pro-grams, policies and public health issues affecting women and children.

Applications of Open Source Information in Public Health Intelligence

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).

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 influ-ence how health and disease is approached by health professionals and experienced by communi-ties. Use ethnographic research methods to exam-inate a public health issue in local community.

Public Health Research Methods

Summer of odd years. 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 da-tabases R: Open to students in the Public Health major or approval of college. Not open to students with credit in VM 830. Identification of research questions, study design, data collection and questionnaire design, dataset manipulation and interpretation of findings. Proposal writing, ethical considerations and submis-sion to institutional review board (IRB).

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 chemotherapeutic agents; epidemiological discussion of the importance of quantification of the pathology and clinical disease seen in populations.

Public Health Nutrition: Assessment and Development of Population-Based Interventions

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.

Mobile Technology, Social Media, and Games in Public Health

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.

Financial, personal, and logistical aspects of control programs. Elimination/eradication of parasitic diseases of public health importance in develop-ing countries.

Field Methodology for Investigating Parasitic Diseases of Public Health Importance

Fall 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 applica-tions 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 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.

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

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: 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 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.

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.