

**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.
- 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. 1(1-2) RB: HM 532 R: Open only to graduate-professional students in the College of Human Medicine.  
Age specific screening examinations and integration with data-gathering skills.
- 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.
- 540 Emergency Medicine for Preclinical Medical Students**  
Fall, Spring, Summer. 1(2-15) A student may earn a maximum of 2 credits in all enrollments for this course. RB: ANTR 551 and (HM 531 and OST 501)  
A precepting experience in the principles of emergency care in the hospital.
- 543 Human Development and Behavior in Society**  
Summer. 2(2-0) R: Open to graduate-professional students in the College of Human Medicine.  
Social science basis of medicine including social and cultural influences on health and behavior. Overview of normal growth and development throughout the life span.
- 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.

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- 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.
- 573 Integrative Clinical Correlations III**  
Summer. 1(2-0) RB: (HM 543 or concurrently) and (HM 572 or concurrently) and (PHD 523 or concurrently) and (PHM 563 or concurrently) and (RAD 553 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 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, Summer. 1(0-2) A student may earn a maximum of 2 credits in all enrollments for this course. R: Open only to graduate-professional students in 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.
- 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.
- 621 Planning for Leadership in Medicine for Underserved or Vulnerable Communities**  
Spring. 6 credits. P: PHD 600 and MED 608 and FMP 608 R: Open to graduate-professional students in the College of Human Medicine. Approval of college.  
Interaction with various clinical, anthropologic, public health professionals, and community leaders in preparation for a month rotation in an underserved or vulnerable clinical setting.
- 629 Leadership in Medicine for Underserved or Vulnerable Communities**  
Spring. 6 credits. P: PHD 600 and MED 608 and FMP 608 and HM 621 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.
- 630 Emergency Medicine Clerkship**  
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: MED 608 R: Open only to graduate-professional students in the College of Human Medicine.  
Clinical diagnosis and treatment of emergencies seen in community emergency departments.
- 631 Advanced Leadership in Medicine for Underserved or Vulnerable Communities**  
Spring. 6 credits. P: HM 621 and 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. Interdepartmental with Family Practice and Medicine and Pediatrics and Human Development. Administered by Human Medicine. R: Open only to graduate-professional students in 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. Interdepartmental with Family Practice and Medicine. Administered by Human Medicine. R: Open only to graduate-professional students in 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. Interdepartmental with Family Practice and Medicine and Obstetrics, Gynecology and Reproductive Biology and Pediatrics and Human Development and Surgery. Administered by Human Medicine. R: Open only to graduate-professional students in 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.
- 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**  
 Spring of even 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) 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.  
 Factors and dynamics that affect global public health. Application of public health principles and policies in international settings. Incorporation of cultural dynamics into public health practice.
- 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.
- 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.
- 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.
- 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.
- 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 3 credits. A student may earn a maximum of 6 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.

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### **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.

### **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.