

MEID - MEDICINE-INTERDISCI

MEID 605 Foundations of Medicine I

Credits 1 to 15. 1 to 15 Lecture Hours. 0 to 15 Lab Hours.

Basic principles of histology and physiology of human organ systems in an integrated fashion; understanding how organ structure and function of the human body interrelate; core knowledge provides a foundation for examining the pathophysiologic basis of human disease.

Prerequisite: Admission to medical school.

MEID 606 Foundations of Medicine II

Credits 1 to 15. 1 to 15 Lecture Hours. 0 to 15 Lab Hours.

Integrated material in basic principles of medical biochemistry, genetics and pharmacology.

Prerequisite: Admission to medical school.

MEID 607 Medical Gross Anatomy

Credits 1 to 15. 1 to 15 Lecture Hours. 0 to 15 Lab Hours.

Human gross anatomy including integrated dissection-based teaching and application of anatomic principles to patient care.

Prerequisite: Admission to medical school.

MEID 608 Neuroscience

Credits 1 to 15. 1 to 15 Lecture Hours. 0 to 15 Lab Hours.

Correlation of the basic knowledge of central and peripheral nervous system structure and function with vulnerability to injury/disease and the resulting dysfunctional consequences and pharmacotherapeutics available to clinicians caring for patients with common neurological or psychiatric disorders; common presentation, diagnosis and treatments.

Prerequisite: Admission to medical school.

MEID 609 Introduction to Disease

Credits 1 to 15. 1 to 15 Lecture Hours. 0 to 15 Lab Hours.

Fundamental topics in immunology, microbiology, pathology, pharmacology and patient interactions; presented in a case-based fashion; topics form a foundation for deeper understanding of the pathophysiologic basis of human diseases presented during the organ system-based blocks.

Prerequisite: Admission to medical school.

MEID 614 Evidence Based Medicine, Scholarship and Research I

Credits 0 to 15. 0 to 15 Lecture Hours.

Develop research, investigative skills and problem solving, and support skill development in critical appraisal of medical literature as it relates to patient care.

MEID 616 Cardiovascular

Credits 1 to 15. 1 to 15 Lecture Hours. 0 to 15 Lab Hours.

Normal physiology and pathophysiology and diseases of the heart and vascular system; abnormalities including hypertension, atherosclerosis, congenital and valvular heart diseases and diseases of cardiac muscle and its electrical system; basic therapeutic approaches to these diseases and their impact on individuals and society.

Prerequisite: Admission to medical school.

MEID 617 Respiratory

Credits 1 to 15. 1 to 15 Lecture Hours. 0 to 15 Lab Hours.

Normal physiology and pathophysiology of diseases of the respiratory system; clinical presentation, diagnosis and treatment of various types of respiratory diseases, such as obstructive, inflammatory, neoplastic and other pulmonary and upper respiratory conditions.

Prerequisite: Admission to medical school.

MEID 618 Medical Student Grand Rounds

Credits 0 to 15. 0 to 15 Lecture Hours.

Apply, primarily, knowledge of biochemistry and genetics; receive didactic instruction in literature search skills and examine a specific medically relevant topic in depth; give presentation about this topic to peers and faculty in a small group setting.

MEID 619 Practice of Medicine I

Credits 1 to 15. 1 to 15 Lecture Hours.

Introduction to clinical and professional behaviors, concepts, skills and clinical reasoning necessary for the humanistic practice of medicine; complete, document and present a patient encounter; further awareness of patient-physician communication, ethics and medico-legal issues, interprofessional dynamics and the medical hierarchy, patient safety issues, cultural competence and student/clinician wellness.

Prerequisite: Admission to medical school.

MEID 620 Practice of Medicine II

Credits 1 to 15. 1 to 15 Lecture Hours.

Development of patient encounter expertise; development of professional identity and history, physical, examination and clinical reasoning skills with special populations; expand awareness of patient-physician communication, ethics and medico-legal issues, inter-professional dynamics and the medical hierarchy, patient safety issues, cultural competence, diversity, social determinants of disease, and student and clinician wellness.

Prerequisite: Admission into the College of Medicine.

MEID 685 Directed Studies

Credits 1 to 15. 1 to 15 Other Hours.

Designed to provide opportunities to refine skills in self-directed learning; students and faculty will identify deficiencies, set personal goals and develop an implementation plan to reach goals; meetings scheduled individually as required and completion determined by goals set; typically involves sitting for a National Board Exam. Must be taken on a satisfactory/unsatisfactory basis.

Prerequisite: Admission to medical school.

MEID 691 Research

Credits 1 to 9. 1 to 9 Other Hours.

Research for thesis or dissertation.

Prerequisite: Approval of supervisory professor in chosen field.

MEID 701 Hematology/Oncology

Credits 1 to 10. 1 to 10 Lecture Hours.

This block covers relevant and important topics in Hematology and Oncology. Using a variety of teaching formats, the pathophysiology and clinical presentation of hematologic and oncologic diseases will be discussed. The student will also be introduced to therapy for such diseases.

Prerequisite: Completion of Phase I Curriculum.

MEID 702 Cardiovascular

Credits 0.50 to 8. 0.50 to 8 Lecture Hours.

Normal physiology, pathophysiology and diseases of the heart and vascular system; abnormalities including hypertension, atherosclerosis, congenital and valvular heart diseases and diseases of cardiac muscle and its electrical system; emphasis on how cardiovascular disease impacts the individual patient as well as society.

Prerequisite: Completion of Phase I Curriculum.

MEID 703 Respiratory**Credits 0.50 to 8. 0.50 to 8 Lecture Hours.**

Normal physiology, pathophysiology and diseases of the respiratory system; clinical presentation, diagnosis and treatment of various types of respiratory diseases such as obstructive, inflammatory, neoplastic and other pulmonary and upper respiratory conditions.

Prerequisite: Completion of Phase I Curriculum.**MEID 704 Renal Genitourinary****Credits 0.50 to 8. 0.50 to 8 Lecture Hours.**

Normal physiology, pathophysiology and diseases of the body fluids, kidney and lower genitourinary tract excluding the reproductive system; fluid and electrolyte and acid-base disorders; renal diseases including clinical presentation, diagnosis and treatment; visitation to a renal dialysis unit.

Prerequisite: Completion of Phase I Curriculum.**MEID 706 Metabolism/Gastrointestinal/Nutrition****Credits 1 to 10. 1 to 10 Lecture Hours.**

Normal physiology, pathophysiology and diseases of the gastrointestinal system and its associated glands; discussion on diseases with respect to biochemical aspects, clinical presentations, diagnostic tests and treatment; topics on nutrition relative to the cause of disease and clinical disease management.

Prerequisite: Completion of Phase I Curriculum.**MEID 707 Endocrinology, Reproductive Science, Human Sexuality****Credits 0.50 to 8. 0.50 to 8 Lecture Hours.**

Normal physiology, pathophysiology and diseases that affect the endocrine and reproductive systems; clinical presentation, diagnosis and treatment of these diseases; relevant topics on human sexuality presented in various formats.

Prerequisite: Completion of Phase I Curriculum.**MEID 708 Integument-Musculoskeletal****Credits 0.50 to 8. 0.50 to 8 Lecture Hours.**

Basic physiology of muscle and pathophysiology and diseases involving the skeleton, joints, soft tissues and skin; including disease related to calcium and bone metabolism and autoimmune disease; clinical presentation, diagnosis and treatment.

Prerequisite: Completion of Phase I Curriculum.**MEID 710 Humanities, Ethics, Altruism and Leadership III****Credits 1 to 15. 1 to 15 Lecture Hours.**

Continuation of the consolidation of the HEAL (Humanities, Ethics, Altruism, Leadership) concepts into a second semester, case-based study; cases from medical/inter-professional rounds and presentations used to help learn and apply the following medical humanities subjects: past, present and future of medicine, medical ethics, medical finance, spirituality, clinician resilience, communication skills, cultural competence, inter-professional collaboration, medical law, palliative care, patient navigation, professionalism, service learning and systems-based practice.

Prerequisite: Admission into the College of Medicine.**MEID 711 Evidence Based Medicine, Scholarship and Research****Credits 1 to 15. 1 to 15 Lecture Hours.**

Continued development of critical appraisal and application of biostatistical skills in literature review; quantitative techniques in evaluating randomized controlled trials, observational studies and clinical practice guidelines; advanced participation in team based learning/ journal club; continued research ethics training and introduction to research opportunities.

Prerequisite: Admission into the College of Medicine.**MEID 712 Practice of Medicine III****Credits 1 to 15. 1 to 15 Other Hours.**

Reinforcement of clinical and professional behaviors, concepts, skills and clinical reasoning necessary for the humanistic practice of medicine; rotation through primary care experiences in family medicine, internal medicine, pediatrics, gynecology, otorhinolaryngology, obstetrics, ophthalmology, dermatology and orthopedics.

Prerequisite: Admission to Medical School.**MEID 750 Foundations in Health Systems Science****Credits 1 to 10. 1 to 10 Lecture Hours.**

Foundational concepts in health systems science; emphasis on population health, healthcare structures and processes, patient safety, quality improvement, healthcare financing and value, systems thinking; required for Health Systems Science Track.

Prerequisite: Admission to medical school.**MEID 751 Reframing Clinical Care in the Context of Health Systems Science****Credits 1 to 10. 1 to 10 Lecture Hours.**

Second in a series for the Health Systems Science track; multidisciplinary case based discussion format with independent study. Must be taken on a satisfactory/unsatisfactory basis.

Prerequisite: Admission to medical school.**MEID 800 Professionalism IV****Credits 2.5. 2.5 Other Hours.**

Required two-week capstone course for all fourth year medical students. The course is designed to educate students about relevant aspects of medical jurisprudence, including state and federal regulations and applicable laws and risk management. In addition to law, the course addresses other topics of practical relevance to their professional careers and provides a refresher on medical topics which will be needed as they begin internship such as pain management, dosing and proper prescribing techniques. The course also provides advice on practice management, personal and professional financial planning and reviews the process for licensure and credentialing. Ethics and professionalism are also addressed.

MEID 801 Healthcare Advocacy and Public Policy**Credits 2.50 to 7. 2.50 to 7 Lecture Hours.**

Work with designated faculty, staff at the medical school, in advocacy and legal affairs offices such as those of the Texas Medical Association and/or physician specialty organizations surrounding advocacy issues that are topical and/or relevant to their interests. Specific duties may include conducting background research, meeting with legislators, constituencies and key community stakeholders, developing and/or implementing a communications strategy (including fact sheets and 'elevator' speeches), and drafting a report, analysis, or model legislation. Non-legislative community advocacy activities may include visiting with non-profit community based programs dependent on public or private funding and identifying an opportunity for a longitudinal advocacy project or contribution to an existing project on a short term basis.

MEID 803 Multidisciplinary Clinical Neuroscience**Credits 1.25 to 10. 1.25 to 10 Other Hours.**

Introductory experience in the practice of neurosciences.

Prerequisite: Satisfactory completion of year three of the medical school curriculum.

MEID 804 USMLE Mentorship**Credits 1.25 to 6.3. 1.25 to 6.3 Other Hours.**

Provide fourth year students with an opportunity to teach and develop curricular materials related to the USMLE Step 1 exam. Students will receive instruction on the management and instruction of small groups, prepare for and lead small groups of M2 studying for the USMLE Step 1 exam, and develop curricular materials related to USMLE Step 1 exam. Small groups will meet in Temple and BCS. This course will involve a shift schedule with students required to complete a prescribed number of hours to receive credit. Must be taken on a satisfactory/unsatisfactory basis.

Prerequisite: 4th year status.**MEID 805 Computer Resources for Professional Development****Credits 1.25 to 6.3. 1.25 to 6.3 Other Hours.**

Familiarize students with lifelong learning tools that will assist them as residents and future leaders. Students will use online resources to find, organize, and create information to support their professional development and lifelong learning goals. This elective will focus on the following: communication and conflict management; professional career development; recognizing deficiencies in your knowledge; utilizing information resources in lifelong learning and understanding the importance of scholarly work within residency. These concepts are introduced through self-paced and self-directed modules, which give students an opportunity to reflect on their own needs for now and for their future as physicians. The graded exercises are short answer; document creation (personal statement outline; CV; budget spreadsheet etc.) and self-reflection pieces.

MEID 806 Wilderness and Disaster Medicine**Credits 1.25 to 6.3. 1.25 to 10 Other Hours.**

Wilderness and disaster medicine both require meeting the challenges of working in a low resource environment. In wilderness medicine, this environment could result from being in a remote location with few resources, while disaster medicine typically results in having your resources overwhelmed. Both require a need to look at delivering medical care from a unique perspective that is not readily taught in most hospital or clinic based practices. In addition, both require exceptional leadership and teamwork to achieve optimum outcomes. Must be taken on a satisfactory/unsatisfactory basis.

Prerequisite: 4th year status.**MEID 807 Internship Bootcamp****Credits 1.25 to 2.5. 1.25 to 2.5 Other Hours.**

Participation in 1-2 weeks of simulated patient encounters that cover top calls interns can expect on night call; cases match and cover Core Entrustable Professional Activities set by the AAMC which should be possessed at graduation; ethical scenarios, interpersonal communication with families and interdisciplinary professional communication topics; formative assessment, self-assessment and summative assessment. Must be taken on a pass/fail basis.

Prerequisite: Completion of third year medical school requirements.**MEID 810 Connecting and Communicating with Patients and Peers****Credits 1 to 15. 1 to 15 Other Hours.**

Exposure to verbal and nonverbal communication techniques that facilitate greater connection with patients and their families; includes establishing a relationship, gathering information through patient-interviews, transmitting information effectively, negotiating treatment, explaining mistakes, negotiating and resolving conflict and closing sessions without making patients feel rushed or dismissed; underpinnings of an effective doctor-patient relationship, namely a genuine understanding of patient experience which encompasses end-of-life concerns, concerns about aging and body image and fears about medical procedures and chronic illness; building effective communication with colleagues.

Prerequisite: Admission to medical school.**MEID 811 Medicine in the Wild****Credits 1 to 15. 1 to 15 Other Hours.**

Learn and practice wilderness medicine on an extended wilderness expedition in the Gila Wilderness of New Mexico; includes National Outdoor Leadership School (NOLS) core curriculum and Wilderness Medicine Institute (WMI) wilderness medicine curriculum.

Prerequisite: Admission to medical school.**MEID 814 Health Systems Science Education****Credits 1.25 to 10. 1.25 to 10 Other Hours.**

25 to 10. Analyze current and proposed health science system courses for gaps; design offerings to address gaps; utilized data to evaluate current courses and develop outcome measures for health science system courses. Must be taken on a satisfactory/unsatisfactory basis.

Prerequisite: Admission to medical school.**MEID 815 Home Visit Program - Interprofessional Education****Credits 1 to 15. 1 to 15 Other Hours.**

In collaboration with multiple health disciplines to improve health outcomes for patients referred to the Home Visits Program; assist in the creation of an appropriate individualized care plan in collaboration with the patient/family/caregiver based upon best practices; follow patients for up to 90 days with the goal of decreasing unnecessary chronic ambulatory care sensitive condition emergency department utilization; work with the interprofessional team to assess patients in their home environment, providing education and treatment to improve health outcomes.

Prerequisites: 2nd or 3rd year classification; must be in good academic standing to participate.**MEID 817 Health Systems Science- Capstone Course****Credits 1 to 15. 1 to 15 Other Hours.**

Multifaceted, long-term investigative health systems science track capstone; independent project required at conclusion including poster, platform presentation or paper worthy of submission to local, state or national meeting/conference.

Prerequisites: Admission to medical school, completion of pre-clerkship or basic science curriculum, completion of semesters 1-4 of the medical school curriculum; MEID 750; MEID 751 or concurrent enrollment.

MEID 850 Practice of Medicine Capstone**Credits 1.25 to 10. 1.25 to 10 Other Hours.**

25 to 10. Required 2-week capstone for fourth year medical students; designed to educate on relevant aspects of medical jurisprudence, including state and federal regulations and applicable laws and risk management; addresses other topics of practical relevance to professional careers and provides a refresher on medical topics needed for internships such as pain management, dosing and proper prescribing techniques; advice on practice management, personal and professional financial planning and reviews the process for licensure and credentialing; ethics and professionalism.

Prerequisite: Fourth year classification.**MEID 974 Systems Based Practice IV****Credit 1.5. 1.5 Other Hour.**

The System Based Practice (SBP) thread (SBPI, SBPII, SBPIII, and SBPIV) consists of 17 IHI Open School for Health Professions courses as well as is a team based approach to integrating the concepts through the TBL sessions. This material and interaction will provide students the skills to become change agents in health care improvement. The focus is: quality improvement, patient safety, teamwork, leadership, and patient-centered care.

MEID 985 Special Topic**Credits 1.25 to 12. 1.25 to 12 Other Hours.**

Formally described elective courses at another medical school or off-campus opportunities that are not formally approved electives. The College of Medicine requires that each of these electives be approved prior to the rotation.

MEID 989 Special Topics in Interdisciplinary Medicine**Credits 1.25 to 12. 1.25 to 12 Lecture Hours.**

Connecting topics and issues across disciplines to enhance what is learned in clinical clerkships by applying interdisciplinary perspectives; develop knowledge, skills, and professional values in an ongoing reflective manner throughout the clinical years of medical school.

MEID 997 Critical Care - Student Initiated Elective**Credits 1.25 to 15. 1.25 to 15 Other Hours.**

25 to 15. Comprehensive problem oriented approach to critically ill patients; understand and manage complex medical problems; evidence-based medicine approaches to critical care across life span; manage own panel of patients; interprofessional work with other staff (nurses, case managers, etc); may perform certain diagnostic procedures under supervision.

MEID 998 Acting Internship - Student Initiated Elective**Credits 1.25 to 15. 1.25 to 15 Other Hours.**

25 to 15. Four week experience in inpatient setting; participation in all aspects of patient management; management of own panel of patients; interprofessional work with other staff such as nurses and case managers; may perform certain diagnostic procedures under supervision.

MEID 999 Medicine Interdisciplinary – Problems**Credits 1.25 to 12. 1.25 to 12 Other Hours.**

This is an on-campus, interdisciplinary opportunity in the College of Medicine that is not defined herein. Experiences may include clinical research, basic science research, library research, other basic science activities, and other clinical activities. Students interested in developing an elective of this type should contact the heads of the appropriate departments for additional details.