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 610 Humanities Ethics Altruism and Leadership I
Credits 1 to 15. 1 to 15 Lecture Hours.
Reinforces knowledge of important physician attributes including humanities, ethics, altruism and leadership; cases used to learn and apply concepts of history of medicine, medical ethics, spirituality, communication skills, cultural competence, medical law, palliative care, end-of-life care, evidence-based medicine, professionalism and systems-based practice.
Prerequisite: Admission to medical school.

MEID 611 Humanities Ethics Altruism and Leadership II
Credits 1 to 15. 1 to 15 Lecture Hours.
Reinforces knowledge of important physician attributes, including humanities, ethics, altruism and leadership; cases used to learn and apply concepts of history of medicine, medical ethics, spirituality, communication skills, cultural competence, medical law, palliative care, end-of-life care, evidence-based medicine, professionalism and systems-based practice.
Prerequisite: Admission to medical school.

MEID 612 Introduction to Clinical Skills I
Credits 1 to 15. 1 to 15 Lecture Hours.
Introduction to the basic concepts and skills needed for patient care including medical vocabulary, professional conduct, patient interviewing, taking and recording a medical history and clinical reasoning based on the chief complaint.
Prerequisite: Admission to medical school.

MEID 613 Introduction to Clinical Skills II
Credits 1 to 15. 1 to 15 Lecture Hours.
Fundamentals of performing a complete physical examination; integration of history and physical examination findings and use of information for clinical problem solving and formulation of a basic differential diagnosis.
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 615 Evidence Based Medicine, Scholarship and Research II
Credits 0 to 15. 0 to 15 Lecture Hours.
Supports development of research, critical thinking and investigative skills and clinical problem solving skills, in the context of critical appraisal of the medical literature; key core concepts of biostatistics in the context of providing optimal patient care through the best use of current evidence.
Prerequisite: Admission to medical school.

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 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 700 Becoming a Physician II
Credits 3. 3 Lecture Hours.
This course is designed to be the link between the science of medicine and the art of patient care. Course topics address aspects of the human experience that pertain to medicine and correspond to the scientific topics taught in the second year of the Phase II curriculum. This course will demonstrate how even in the molecular and microscopic dimension of medicine, human values are manifest in the life of the patient and the patient’s family.

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 704 Renal/Genitourinary
Credits 1 to 10. 1 to 10 Lecture Hours.
This block covers the normal physiology, pathophysiology and diseases of the body fluids, kidney and lower genitourinary tract excluding the reproductive system. Included will be a discussion of fluid and electrolyte and acid-base disorders. Discussion of renal diseases will include clinical presentation, diagnosis and treatment as well as students having the opportunity to visit a renal dialysis unit.

Prerequisite: Completion of Phase I Curriculum.

MEID 705 Seminar Day
Credits 0.50 to 5. 0.50 to 5 Lecture Hours.
Medical Student Grand Rounds. In this course, students will apply primarily, their knowledge of biochemistry and genetics. Students will receive didactic instruction in literature search skills and examine a specific medically relevant topic in depth. Students will then give a presentation about this topic to their peers and faculty in a small group setting.

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/Repro Science/Human Sexuality
Credits 1 to 10. 1 to 10 Lecture Hours.
This block covers the normal physiology, pathophysiology and diseases that affect the endocrine and reproductive systems. The clinical presentation, diagnosis and treatment of these diseases will also be included. In addition, relevant topics on human sexuality will also be presented in various formats.

Prerequisites: Completion of Phase I Curriculum.

MEID 708 Integument/Musculoskeletal
Credits 1 to 10. 1 to 10 Lecture Hours.
This block covers the basic physiology of muscle and pathophysiology and diseases involving the skeleton, joints, soft tissues and skin. Included as well will be disease related to calcium and bone metabolism, and autoimmune disease. The clinical presentation, diagnosis and treatment of these diseases will also be covered.

Prerequisites: Completion of Phase I Curriculum.

MEID 709 O.C. Cooper Preceptorship
Credits 1 to 10. 1 to 10 Lecture Hours.
Students rotate through primary care experiences in family medicine, internal medicine, pediatrics, gynecology, otorhinolaryngology, obstetrics, ophthalmology, dermatology and orthopedics.

Prerequisite: Completion of Phase I.

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 III
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 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 850 Professionalism IV  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This course is a required 2-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.

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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 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.