**IMED - INTERNAL MEDICINE**

**IMED 800 Internal Medicine Clerkship**
Credits 1.25 to 15. 1.25 to 15 Other Hours.
25 to 15. General outpatient and inpatient internal medicine, with patient work-up and management under supervision of the clinical faculty; participation in clinical rounds, conferences, seminars, and diagnostic evaluations.

**Prerequisite:** Satisfactory completion of year two of the medical curriculum.

**IMED 801 Hematology/Oncology**
Credits 1.25 to 10.
It is the purpose of this elective to provide the student with an introduction to clinical oncology and laboratory hematology/oncology, particularly the approach to and evaluation of the patient with a hematologic/oncology disorder. The student will assist/perform routine hematologic procedures, including evaluation of peripheral smears and possibly one marrow biopsies.

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

**IMED 802 Internal Medicine – Community**
Credits 1.25 to 10. 1.25 to 10 Other Hours.
25 to 10. To provide an introductory experience in the practice of internal medicine.

**Prerequisite:** Satisfactory completion of year two of the medical school curriculum.

**IMED 803 Clinical Cardiology and Electrocardiography**
Credits 1.25 to 10. 1.25 to 10 Other Hours.
This course will introduce the students to the clinical management of hospitalized cardiovascular patients. It will strengthen the student's abilities in cardiovascular history and physical examination and introduce and/or reinforce skills in electrocardiographic interpretations. It will introduce students to certain non-invasive cardiac techniques including echocardiography, phonocardiography, and nuclear cardiology. Students will have the opportunity to experience a balance of inpatient and outpatient exposure according to student preference and be expected to make rounds daily with the Cardiology Service (Staff and Interns). The student will be expected to work up approximately one patient daily and participate in the care of that patient to the point of discharge. The student will participate with the Staff assigned to EKG interpretation in the daily readings of EKG’s. Lastly, the student will also have the opportunity to observe the performance and interpretation of non-invasive studies such as: echocardiography, nuclear cardiology, and systolic time intervals.

**IMED 804 Dermatology**
Credits 1.25 to 10. 1.25 to 10 Other Hours.
This elective is designed to provide a broad overview of the clinical presentation and management of common Dermatologic conditions seen in a clinic. An opportunity for self-study is provided as well. In addition, students will have the chance to accurately describe skin lesions. Diagnosis and treatment of common skin lesions, including papulosquamous diseases, vesiculobullous diseases, benign and malignant growths of the skin, drug reactions, sexually transmitted diseases of the skin, acne, bacterial, fungal, and viral infections of the skin, urticaria, skin signs of systemic diseases and recognition of life-threatening skin diseases. The student will appropriately perform and utilize diagnostic and surgical techniques such as microscopic examination of cutaneous preparations, biopsies, curettage, cryosurgery, and electrosurgery.

**IMED 805 Allergy and Clinical Immunology**
Credits 1.25 to 10. 1.25 to 10 Other Hours.
In general, students will learn to identify, diagnose and treat common allergic and immunologic disorders: rhinosinusitis, asthma, atopic dermatitis, urticarial, angioedema, immunodeficiency states and insect, food, and drug allergy. The course will review allergic/allergic dermatology conditions and immunological deficiencies seen in private practice. The faculty will give regular feedback on their patient presentations. The student will develop an understanding of the indications and methods of allergy skin testing, office spirometry, and laboratory tests used in diagnosing allergic and immunologic diseases. Additionally, the student will develop a working knowledge of basic immunology concepts as they pertain to clinical care.

**IMED 806 Clinical Infectious Disease**
Credits 1.25 to 10. 1.25 to 10 Other Hours.
This elective will teach the student a logical approach to the diagnosis and management of patients suspected of having an infectious disease through direct participation in the consultative infectious diseases service of St. Joseph Hospital and College Station Medical Center as well as participation in the management of outpatient consults and outpatient primary care patient's clinical visits. The elective will discuss the use of ancillary radiological technology for the diagnosis and management of infectious diseases; establish a basic understanding of microbiological techniques as well as other laboratory techniques including pathology surgical specimens, in the diagnosis of infectious diseases through rounds in the clinical pathology laboratory of both hospitals. The elective will also discuss principles of antimicrobial therapy, including antibacterial, antifungal and antiviral, in the treatment of infectious diseases. Lastly, the elective will discuss principles regarding the interaction between consulting and consultant physicians including proper communication, hierarchy of physicians in the decision-making process, confidentiality issues, and conflict resolution.

**IMED 807 Gastroenterology**
Credits 1.25 to 10. 1.25 to 10 Other Hours.
This course will offer daily experience with a practicing gastroenterologist including office practice, inpatient rounds, and procedures. Goals include education in basic gastroenterology as well as allowing the student to experience the daily activities of a busy gastroenterology practice. The course will introduce the student to subspecialty consulting, with special focus on working cooperatively with primary care physicians and other subspecialists for the benefit of the patient. Hours are typically Monday-Friday 0700-1800. There is no night or weekend call.

**IMED 808 Physical Medicine and Rehabilitation**
Credits 1.25 to 10. 1.25 to 10 Other Hours.
This elective will allow fourth year medical students to familiarize themselves with the specialty of Physical Medicine and Rehabilitation if they are considering it as a possible career specialty. It will familiarize fourth year medical students with an inpatient and outpatient PM&R program and the treatment of complex neuromuscular and musculoskeletal problems. In addition, it will familiarize the student with a concept of interdisciplinary teams, and to help understand the appropriate and cost effective use of allied health therapies. Lastly, it will familiarize the student with the allied therapies including physical, occupational, speech and recreational therapy, prosthetics and orthotics.
IMED 810 Neurology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This course provides a broad exposure to outpatient clinical neurology. It is primarily targeted to 4th year students considering a career in neurology, but may also be appropriate for students in 3rd year with an interest in neurology. Students should develop refinements of their neurologic examination skills and learn much regarding the clinical management of neurologic disease.

IMED 814 Hematology and Oncology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Students will be a member of a team participating in the provision of comprehensive subspecialty consultations for inpatients and outpatients with a wide variety of blood and neoplastic diseases. Students must demonstrate knowledge about established biomedical and clinical sciences and the application of this knowledge to patient care. There are no examinations. Evaluation will be based on achievement of the stated objectives of the course as assessed by the attending physician to whom the student is assigned and the Program Director. Similarly, evaluation of the elective by the student will be requested.

IMED 818 Allergy/Clinical Immunology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
In general, students will learn to identify, diagnose and treat common allergic and immunologic disorders: rhinosinusitis, asthma, atopic dermatitis, urticaria, angioedema, immunodeficiency states and insect, food, and drug allergy. The course will review allergic/allergic dermatology conditions and immunological deficiencies seen in private practice. The faculty will give regular feedback on their patient presentations. The student will develop an understanding of the indications and methods of allergy skin testing, office spirometry, and laboratory tests used in diagnosing allergic and immunologic diseases. Additionally, the student will develop a working knowledge of basic immunology concepts as they pertain to clinical care.

IMED 819 Bone Marrow Transplant  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
The BUMC Marrow Transplant Program is one of the largest transplant groups in the country offering a rich experience in the field. The students will be exposed to a broad clinical overview of hematologic malignancy with an emphasis on bone marrow transplant. Students will round with the transplant team in the hospital and in the clinic. There will be a focus on the indications for transplant, complications of self and donor transplantation, and long term impact on immunity in terms of host defense, auto/alloimmunity (graft versus host disease), and in terms of preventing or treating relapse. This will likely be best for those interested in medical oncology and hematologic malignancies. Two- to four-week rotations suggested but there would be flexibility in the time frame. This will be principally a clinical rotation with a strong emphasis on the care of the marrow transplant patient.

IMED 820 Cardiology Imaging  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This course will instruct students in the common and appropriate indications for echocardiography; cardiac/coronary CT angiography, and what each of these tests can provide for the evaluation of cardiac disorders.

IMED 823 HIV Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Students will be under the direct supervision of an attending physician on staff at Baylor University Medical Center at Dallas. Students will participate, through direct observation and through independent history-taking and physical examination, in the care of patients living with HIV/AIDS that are chronically managed by the attending physicians.

IMED 824 Neurology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This is a 2- to 4-week elective in clinical neurology. It will consist of a mandatory 2 weeks of inpatient neurology care and an additional elective 2 weeks of outpatient neurology in various clinics (including child neurology). The main goal of the rotation is to learn basic principles of Neurology that are necessary to the non-neurologist, while demonstrating conscientious and responsible behaviors pertaining to patient care.

IMED 825 Palliative Medicine and End-of-Life Care  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Faculty will strive to provide basic information on interdisciplinary approach to palliative and end-of-life care. This course will teach skills needed to improve communication with patients with chronic or terminal diseases and appropriate methods of delivering bad news. The student will be provided basic information on pain assessment and management. The course will demonstrate comprehensive nature of end-of-life care, the distinctive nature of its patient care model, and its significant place in today's healthcare arena.

IMED 827 Traditional Pulmonary Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This elective is designed to expose the student to a pulmonary consultative experience. The student will rotate and see pulmonary consultations at Baylor University Medical Center and in a doctor's private office. Thus, the student will be exposed to patients with COPD, dyspnea, interstitial lung disease, pleural effusions, thromboembolic disease, and lung nodules, masses, and cancer. The student will be able to participate in bronchoscopies, thoracentesis, and pulmonary function testing. The objectives of the rotation are: 1. to teach interpretation of pulmonary function testing; 2. to teach interpretation of chest x-rays and CT scans; and 3. to be able to appropriately address and understand the evaluation and management of dyspnea; airway diseases such as asthma, COPD, and bronchitis; pleural effusions; lung masses; thromboembolic diseases; and interstitial diseases (pulmonary fibrosis). The student will also see some in-patient consultations in the surgical intensive care units.

IMED 828 Advanced Lung Disease I  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This elective is designed to expose the student to patients with advanced and unusual lung diseases. The student will be expected to learn how to interpret chest x-rays and the different types of CT scans of the chest, have a better understanding of pulmonary physiology and to learn how to interpret pulmonary function testing, attend the clinics, see, and treat patients with COPD, interstitial lung diseases, pulmonary hypertension, cystic fibrosis, and who have undergone or are being referred for lung transplantation. The students will participate in bronchoscopies. During this part of the rotation, the student will see patients both in the clinics and in the hospital. The second half of the rotation will be spent in the Martha Foster Lung Center. This aspect of the rotation will focus on treatment of patients with asthma and COPD and on pulmonary rehabilitation.
IMED 829 Advanced Lung Disease II  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This elective is designed to expose the student to patients with advanced and unusual lung diseases. The student will be expected to learn how to interpret chest x-rays and the different types of CT scans of the chest, have a better understanding of pulmonary physiology and to learn how to interpret pulmonary function testing, attend the clinics with Dr Rosenblatt, see, and treat patients with COPD, interstitial lung diseases, pulmonary hypertension, cystic fibrosis, and who have undergone or are being referred for lung transplantation. The students will participate in bronchoscopies. During this part of the rotation, the student will see patients both in the clinics and in the hospital. The objectives of the rotation are: 1. To teach the student how to interpret and appropriately order chest x-rays; 2. to teach the students about the different types of CT scans and how to interpret them; 3. to teach the student how to interpret pulmonary function testing including arterial blood gases, spirometry, plethysmography, and diffusion; 4. to learn how to diagnose and treat the various interstitial lung diseases; 5. to learn about the presentation and management of adult patients with Cystic Fibrosis; 6. to learn about the indications and evaluation of patients referred for lung transplantation; 7. to learn about the post operative and long term follow-up of lung transplant patients which will include a focus on infectious disease and immunosuppressive medications; 8. to learn about pulmonary hypertension; and 9. to learn about the evaluation and treatment of patients with asthma, COPD, and bronchiectasis.

IMED 830 Rheumatology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Identify, diagnose, and treat common rheumatologic disorders; rheumatoid arthritis, musculoskeletal exam techniques, lupus, crystalline arthropathies, spondyloarthropathies, vasculitis, osteoarthritis, soft issue disorders and myopathies. The student will understand the risks and benefits of drugs used to treat rheumatologic diseases. The student will become familiar with the indications and methods of joint aspiration and injection, soft tissue injections, and serologic tests for rheumatologic disorders. Basic concepts in immunology and pharmacology as they pertain to clinical care will also be taught.

IMED 831 Medical Intensive Care Unit  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
The Medical Intensive Care Unit will guide the student through a systematic approach to the critically ill patient and impart an appreciation of the dynamic multi-organ system interrelationships in critical care and the multidisciplinary management if those patients. Senior medical students will be taught an evidence-based medical approach to the frequently encountered medical illnesses requiring surgical and medical critical care intervention to include ventilatory management, hemodynamic monitoring and management, as well as nutritional, pharmacologic, and rehabilitative efforts. In addition, the experience will foster setting of the students’ ethical compass as it relates to complex medical, ethical dilemmas and life and death issues. There will be no night call but students may be asked to work weekend shifts.

IMED 832 Medical-Surgical Intensive Care Unit  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
The Medical-Surgical Intensive Care Unit will guide the student through a systematic approach to the critically ill patient and impart an appreciation of the dynamic multi-organ system interrelationships in critical care and the multidisciplinary management if those patients. Senior medical students will be taught an evidence-based medical approach to the frequently encountered medical illnesses requiring surgical and medical critical care intervention to include ventilatory management, hemodynamic monitoring and management, as well as nutritional, pharmacologic, and rehabilitative efforts. In addition, the experience will foster setting of the students’ ethical compass as it relates to complex medical, ethical dilemmas and life and death issues. There will be no night call but students may be asked to work weekend shifts.

IMED 833 Clinical Endocrinology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
The endocrinology experience will include all levels of care (1-3 degree), primary and secondary patients along with several outpatients per day with a variety of endocrine disease. The faculty will introduce the student to endocrine evaluation based upon knowledge of clinical physiology and pharmacologic manipulation. The faculty will familiarize the student with the management of diabetes, thyroid disease, osteoporosis and lipid disorders in patients.

IMED 834 Clinical Gastroenterology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Daily experience with a practicing gastroenterologist including office practice, inpatient rounds, procedures and educational conferences. Goals include education in basic gastroenterology and for the student to gain insight into what a gastroenterology practice is like. This includes the concept of being a subspecialist consultant and to work cooperatively with other subspecialists for the benefit of the patient. Hours are typical Monday-Friday starting at 0700 each day and finishing before 1800 each day. There is no night or weekend call. In addition to the usual Internal Medicine noon conferences, students attend a number of GI conferences weekly and interact with residents and fellows on the service.

IMED 837 Cardiology Imaging  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Offered at the Methodist Hospital. Hospital management of common cardiology conditions such as atrial fibrillation, heart failure, pericarditis, acute coronary syndromes, and recovery from open heart surgery. Interpret ECGs with the student; and teach an evidence-based approach to the evaluation and management of common cardiology disorders, including the appropriate use of testing and invasive procedures.

IMED 838 Inpatient General Internal Medicine Consult Service  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Offered at MD Anderson. Inpatient management of common medical problems; management strategies for patients requiring urgent care; improve students’ skills in developing work-up and management strategies for common medical diagnosis; and provide opportunities to experience the role of an inpatient GIM consultant to a diverse group of specialists.

IMED 840 Clinical Endocrinology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Broad clinical experience in endocrinology and endocrine neoplasias; teach clinical endocrinology concepts during clinic, inpatient rounds, and regularly scheduled didactic, multidisciplinary and research conferences; and provide regular feedback to student on patient presentations.
IMED 841 Clinical Dermatology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Offered at MD Anderson. Broad clinical experience in dermatology; teach clinical dermatology concepts in the outpatient dermatology clinic and regularly scheduled didactic conferences; and provide exposure to dermatopathology and dermatologic surgery.

IMED 842 Immunology Research Elementary Mechanisms of Inflammation  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
The faculty will strive to create a stimulating educational environment and provide opportunities to conduct research based on the scientific method; supervise the student’s performance of basic laboratory techniques; meet regularly with the student to discuss and critique the progress of their research project; and encourage the student to present at scientific meetings.

IMED 845 Gastroenterology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Offered at MD Anderson. A unique opportunity for medical students to see patients referred with specific issues related to gastroenterology and gastrointestinal cancer; working one-on-one with faculty in the outpatient clinic, hospital and endoscopy unit will provide close interaction between students, fellows and staff in an environment that nurtures teaching; provide defined educational experiences that will impact on providing insightful consultation for a very wide range of gastrointestinal problems, the effective management and appropriate use of endoscopic procedures; and provide students with the opportunity to evaluate and manage outpatients under close faculty supervision; perform consultative evaluations on a limited number of inpatients under close faculty supervision; and observe both diagnostic and therapeutic endoscopic procedures such as used for tumor ablation, control of bleeding and screen for colon cancer.

IMED 846 Nephrology Consult Service  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Offered at MD Anderson. Broad clinical experience in nephrology; teach clinical nephrology concepts in the hospital, clinic, and regularly scheduled didactic conferences; and give regular feedback to students on their patient presentations.

IMED 847 Pulmonary Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Offered at MD Anderson. Provide fourth year medical students the opportunity to be a part of the inpatient consult service for pulmonary issues and complications related to cancer and cancer-related treatment, under close supervision by a faculty member; develop skills in differential diagnosis, as well as guide them in identifying appropriate diagnostic and therapeutic studies; enhance physical exam skills, especially related to the pulmonary system; encourage evaluation and interpretation of pulmonary function tests, chest radiograph and computed tomography of the lungs; and allow observation of common pulmonary procedures, including thoracentesis and bronchoscopy.

IMED 848 Acting Internship/Hospitalist General Internal Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Offered at MD Anderson. Inpatient management of common medical problems; management strategies for patients requiring urgent care; improve students’ skills in developing work-up and management strategies for common medical diagnosis; and provide opportunities to experience the role of an inpatient GIM consultant to a diverse group of specialists.

IMED 850 Ambulatory General Medicine Elective  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Offered at MD Anderson. Ambulatory management of common medical problems; work-up strategies to patients presenting with suspicion of cancer; risk stratification strategies for cancer patients undergoing surgical procedures; management strategies to cancer survivors; improve students’ skills in developing work-up and management strategies for common medical diagnosis in ambulatory setting; and opportunities to experience the role of an outpatient GIM consultant to a diverse group of specialists.

IMED 856 Hematology and Medical Oncology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
The elective is designed to give the student understanding and educational experience in the evaluation and clinical management of patients with hematologic and non-hematologic malignancies. Housing is not provided. No night call is required.

IMED 860 Adult and Pediatric Allergy and Immunology Outpatient Clinic  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This is a four-week elective in allergy and immunology that will provide experience in managing common adult and pediatric allergy and immunology ambulatory illness. It will introduce student to uncommon allergic diseases and illustrate broader aspects of adult and pediatric care, as it relates to the care of patient with chronic allergic conditions. The elective will encourage student to develop skills in carefully evaluating patient with allergic or immunological problems and introduce them to an ambulatory health care system dealing with patients who have chronic illnesses and require chronic management.

IMED 862 Preventative Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
The elective will introduce the student to: experience the roles and responsibilities of a preventative medicine physician; evidence based preventative services in the public health setting and in the community; expose the student to the core functions and essential services of a local public health agency including the programmatic and practices examples of each; explore the competencies inherent in preventative medicine residencies, the scope and content of the Masters of Public Health Degree and opportunities for scholarly research in prevention.

IMED 863 Community Based Geriatric Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Increase student awareness of the biopsychosocial factors which characterize the uniqueness of the elderly, understand normal aging processes and differentiate this from disease. Improve student capacity for effective assessment and treatment of the ill elderly and recognize the unique aspects of drug therapy and drug interaction in the elderly. Exposure to the multidisciplinary team concept to enhance effectiveness in working with therapists, social workers, dieticians, nurses, nurse practitioners, etc. Examine negative attitudes toward aging and the aged and the implications of these attitudes for medical care. Provide information about proper methods for preventing unnecessary illness in the elderly. Exposure to extended care facilities, community home services, and alternatives to institutional care which are available to elderly citizens.

IMED 865 Clinical Gastroenterology, Hepatology, and Nutrition  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This elective will reinforce the clinical diagnostic skills obtained by the student during his third-year clerkship in Medicine; introduce the student to the specialized diagnostic procedures relating to gastrointestinal disorders with emphasis on their indications and interpretations, limitations, and risks; and familiarize the student with the management of some of the more commonly encountered gastrointestinal disorders.
IMED 866 Clinical Nutrition  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This elective will provide an introduction to clinical malnutrition in the adult patient with emphasis on the clinical syndromes of kwashiorkor and marasmus. An understanding of alterations in nutrition which occur as a result of adult illnesses including the clinical recognition and management of resulting disorders of nutrition. A familiarity to the student of the proper evaluation and utilization of specific lab tests in the diagnosis of malnutrition in the hospitalized adult patient. A familiarity to the students of the indications and usage of enteral nutrition in the support of the hospitalized adult patient. A familiarity to the student of the utilization of peripheral protein sparing alimentation in the adult hospitalized patient. A familiarity to the student of proper utilization of central alimentation (Total Parenteral Nutrition) in the hospitalized adult patient.

IMED 867 Pulmonary and Critical Care Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This elective will strive to: guide the student through a systematic approach to the critically ill patient and impart an appreciation of the dynamic multi-organ system interrelationships in critical care; Teach the student an evidence-based medical approach to the frequently encountered medical illnesses requiring critical care intervention; Teach the student an appropriate approach and initial diagnostic evaluation of the more common pulmonary diseases encountered in internal medicine; Foster the students ethical compass as it relates to complex medical ethical dilemmas and life and death issues.

IMED 871 Ambulatory General Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Strengthen and refine a student’s skill set focusing on taking an accurate patient history, performing physical exams, and developing a differential diagnosis. The faculty will assist the student in developing a plan of care including ordering diagnostic imaging and laboratory as well as providing insight into the therapeutic decision making. The students will be given responsibility for patient management under faculty supervision. The students will be allowed to perform appropriate diagnostic procedures under supervision on their patients when indicated.

IMED 877 Clinical Pharmacology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Introduce the principles of pharmacotherapy, including therapeutic drug monitoring, as these principles apply to the clinical setting. Enhance the student’s ability to apply pharmacologic principles to clinical medicine. Introduce the student to the resource materials available for information on drugs and drug therapy. Familiarize the student with the principles of drug absorption, distribution, metabolism, and elimination as they apply to patients with different diseases and of varying age groups. Expand the student’s knowledge of principles of antimicrobial therapy.

IMED 879 ICU Clinical Cardiology and Electrocardiography (VA)  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Improve student skills in obtaining a pertinent cardiovascular history and performing physical examination including identification of cardiac murmurs by auscultation. Increase knowledge of pathophysiology of cardiac illnesses. Improve knowledge about management of cardiac problems, congestive heart failure, angina pectoris, acute coronary syndrome, cardiac arrhythmias and emergencies. Improve student skills in identification of EKG abnormalities and arrhythmias. Introduce to non-invasive tests like cardiac stress tests, echocardiograms. Introduce to nuclear cardiology. Introduce to hemodynamics, cardiac outpatients in ICU. Introduce to evidence based approach to medicine practiced in care of cardiac patients.

IMED 882 Clinical Endocrinology with Primary Focus on Diabetes (VA)  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Disease and pathophysiology of Diabetes Type 1 DM and Type 2 DM; recognition of disease and its complications and treatments; and also include other endocrine related disorders, including but not limited to thyroid, pituitary, adrenal, parathyroid, other hormones, electrolyte and water disturbances.

IMED 884 Academic Medicine Clinic (VA)  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
General principles of primary care in a prepaid setting, with emphasis on preventive medicine and outpatient diagnosis and therapy; out-patient management of some of the most common problems in adult medicine; and broad range of activity in an outpatient clinic, operating under the managed care paradigm, so as to help the student with a career choice.

IMED 889 Clinical Nephrology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Reinforce core material from the Nephrology section of the Introduction to Medicine course; provide clinical correlation and patient management experience in renal disease; familiarize the student with laboratory investigative procedures utilized in the diagnosis of renal disease; and strengthen the students’ basic history physical performance skills.

IMED 890 Subinternship in Medical Oncology  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
Basic principles of non-surgical acute hospital care; experience in the day-to-day management of severely ill hospitalized patients with malignant diseases at all stages, both as a primary care giver and as a consultant, biologic therapy, immunotherapy and supportive care; initiation and proper use of clinical research protocols in medical oncology; basic principles of symptom control in patients with all stages of malignant disease; basic principles of a multidisciplinary approach to patients with cancer; including interaction with other medical specialists and support services; and strengthen the student’s ability to interact with patients and their families at a time of health crisis.

IMED 891 Pulmonary and Sleep Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
This elective will provide the student with exposure to the diagnosis and treatment of a wide variety of pulmonary diseases under the guidance of the attending staff and fellows. Familiarize the student with the various pulmonary function tests used in the clinical practice of pulmonary medicine. Introduce the student to various special diagnostic procedures used in pulmonary medicine and sleep disorders medicine. Reinforce the pathophyslogic principles learned in the classroom and correlate them with special clinical problems. Introduce the student to and acquaint him/her with common sleep disorders and their diagnosis and treatment. Regularly review radiographic findings of patients seen and correlate them clinically.

IMED 893 Research in Medicine  
Credits 1.25 to 10. 1.25 to 10 Other Hours.  
An appreciation for research has high educational value in the development of physicians. The purpose of this elective will be to provide students an opportunity to explore research processes, planning and execution particularly within medicine. Students may or may not be involved in a research project at the commencement of the elective. Thus, the elective can provide assistance to students with an ongoing research project reach their project goals and can provide those interested in starting a research project the fundamentals to begin, carryout, and potentially complete a research project.
IMED 894 Medical Education/Simulation
Credits 1.25 to 10. 1.25 to 10 Other Hours.
Introduce students to curriculum design, outcome measure implementation and learning styles. Present simulation opportunities for teaching, as well as train students to utilize simulation equipment/software (partial task trainers, SimMan, MicroSim). Instruct students on teaching methods and provide opportunities for students to employ teaching methods within the MS3 IM clerkship. Expose students to faculty development opportunities. Four-Week Elective: In addition to the expectations above: Familiarize students with concepts in research design, including carrying out a literature review, gathering and analyzing data, and writing for presentation (e.g., poster presentation.)

IMED 895 Intensive Care Unit
Credits 1.25 to 10. 1.25 to 10 Other Hours.
Management of acute cardiac emergencies with emphasis on coronary care; reinforce the student’s skills in bedside evaluation and history taking of angina and clinical presentation of myocardial infarctions; familiarize the student with current techniques in management of acute myocardial infarction including the treatment of arrhythmias and congestive heart failure in the acute infarct setting; introduce the student to post myoccardial infarction rehabilitation and education practices; and introduce the student to the care of postop CA bypass patients.

IMED 896 Internal Medicine Acting Internship
Credits 1.25 to 10. 1.25 to 10 Other Hours.
Provide fourth year medical students with the opportunity to function as an "acting intern" in Internal Medicine on a general Medicine service with supervision by senior residents and faculty. Help prepare medical students for responsibilities and skills necessary during internship. Provide an opportunity for medical students to get a better experience in Internal Medicine if they are considering Internal Medicine or primary care as a possible career.

IMED 897 Critical Care
Credits 1.25 to 10. 1.25 to 10 Other Hours.
Offered at Austin Pulmonary Consultants. This elective will impress upon the student the need for a comprehensive problem oriented approach to the critically ill patient, and strive to help the student understand manage complex medical problems of the critically ill patient. Teach the student a logical evidence-based approach to the care of the critically ill patient and provide the student an in-depth exposure to a wide range of medical diseases encountered in Internal Medicine. Assist the fourth year student in learning basic knowledge and abilities of ICU procedures.

IMED 898 Ambulatory General Internal Medicine
Credits 1.25 to 10. 1.25 to 10 Other Hours.
Strengthen and refine a students’ skill set focusing on taking an accurate patient history, performing physical exams, and developing a differential diagnosis. The faculty will assist the student in developing a plan of care including ordering diagnostic imaging and laboratory as well as providing insight into the therapeutic decision making. The students will be given responsibility for patient management under faculty supervision. The students will be allowed to perform appropriate diagnostic procedures under supervision on their patients when indicated.

IMED 912 Malignant Hematology
Credits 0 to 10. 0 Lecture Hours. 0 to 10 Other Hours.
Broad clinical experience in hematologic malignancies, hands on, independent experience. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: Doctor of Medicine classification.

IMED 913 Oncology
Credits 0 to 10. 0 Lecture Hours. 0 to 10 Other Hours.
Broad clinical experience in oncology; hands on, independent experience in busy clinical setting. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: Doctor of Medicine classification.

IMED 914 Ophthalmology
Credits 0 to 10. 0 Lecture Hours. 0 to 10 Other Hours.
Broad clinical experience in clinical ophthalmology. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: Doctor of Medicine classification.

IMED 919 Adult Allergy and Immunology
Credits 1 to 15. 1 to 15 Other Hours.
Two to four week elective in allergy and immunology; managing common adult and pediatric allergy and immunology ambulatory illness; introduction to uncommon allergic diseases and broader aspects of adult and pediatric care as it relates to the care of patients with chronic allergic conditions; encourages development of skills in carefully evaluation patients with allergic or immunological problems; introduction to an ambulatory health care system dealing with patients who have chronic illnesses and require chronic management.
Prerequisite: Admission to medical school.

IMED 942 Antimicrobial Stewardship
Credits 1 to 15. 1 to 15 Other Hours.
Demonstration of the application of fundamental principles of pharmacology; hands on experience in areas of clinical antimicrobial therapeutics with an emphasis on inpatient antimicrobial stewardship, including appropriate prescribing, monitoring of clinical response and de-escalation; impact of antibiotic use on antimicrobial resistance and formulary management.
Prerequisites: Completion of pre-clerkship or basic science curriculum.

IMED 943 Infectious Disease in the Orthopedic Patient Population
Credits 1 to 15. 1 to 15 Other Hours.
Experience in the diagnosis and treatment of musculoskeletal infections; participation in ambulatory and inpatient treatment of common and uncommon orthopedic infections; includes prosthetic joint infections, spinal fusion and scoliosis surgery infections, Ilizarov and other fixator infections and post-operative infections; familiarity with the use of antibiotics in treating orthopedic infections; care of and management of PICC lines and Hickman catheters used for administration of IV antibiotics at home.
Prerequisites: Completion of Pre-clerkship or basic science curriculum; IMED 800, MFCM 800, MPED 800, MPSY 800, OBGY 800 and SURG 800.

IMED 956 Onco-Medicine
Credits 0 to 10. 0 Lecture Hours. 0 to 10 Other Hours.
Caring for comorbidities in cancer patients and survivors; skills on diagnosing cancer, performing perioperative evaluation, caring for comorbidities and complications of cancer treatment. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: Doctor of Medicine classification.

IMED 957 Oncology Hospital Medicine
Credits 0 to 10. 0 Lecture Hours. 0 to 10 Other Hours.
Caring for cancer patients who are newly diagnosed with cancer or experience complications related to cancer and cancer treatment; initial evaluation and daily management of hospitalized cancer patients; daily rounds with the team; case presentations to the attending physician; attendance of daily morning report with residents. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: Doctor of Medicine classification.
IMED 985 Off Campus Student Initiated Elective
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.

IMED 999 On Campus Student Initiated Elective
Credits 1.25 to 12. 1.25 to 12 Other Hours.
This is an on-campus opportunity in the department of Internal Medicine 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 head of the appropriate department for additional details.