

# MEDICINE - MD (MED)

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## MED 700: Clinical Clerkship in Medicine

15 Credits/Maximum of 15

To provide supervised clinical experience in the management of patients with acute and chronic illness.

**Prerequisite:** restricted to medical students who have completed required preclinical training

## MED 715: Clinical Elective in Infectious Disease

5-10 Credits/Maximum of 10

Principles of human-host defense mechanism, host-parasite interactions, manifestations of various infections, systematic approach to problem solving, rational use of antibiotics.

**Prerequisite:** third-year core clerkships and permission of staff

## MED 721: Cardiology Elective for 3rd Year Students

5 Credits/Maximum of 5

Students learn non-invasive and invasive cardiology procedures, then work as clinical clerks on an in-patient cardiology service.

**Prerequisite:** successful completion of the first two years of medical school

## MED 722: Medicine Acting Internship

5 Credits/Maximum of 5

Active participation on an advanced level in the diagnosis and management of patients admitted to the General Internal Medicine Services. More responsibility for decision-making and patient management is afforded subinterns than clinical clerks.

**Prerequisite:** successful completion of 3rd year core clerkships.

## MED 723: Clinical Elective in Gastroenterology

5-15 Credits/Maximum of 15

A program in clinical gastroenterology to expose student to basic GI physiology, pathophysiology, and management of gastrointestinal and liver problems.

**Prerequisite:** basic core clerkships

## MED 724: Clinical Elective in Hematology

5-15 Credits/Maximum of 15

Provides students with the basic understanding of the fundamental problems of hematology.

**Prerequisite:** third-year medicine core clerkship

## MED 725: Clinical Elective in Medical Oncology

5-15 Credits/Maximum of 15

Introduces students to cancer chemotherapy and immunotherapy with emphasis on workings of lymphoma and solid tumor patients.

**Prerequisite:** third-year medicine core clerkship

## MED 727: Elective in Pulmonary Medicine

5-15 Credits/Maximum of 15

A clinical program in pulmonary medicine with emphasis in pulmonary physiology, pathophysiology, and patient diagnosis and management.

**Prerequisite:** basic third-year core clerkships

## MED 728: Clinical Program in Nephrology

5-10 Credits/Maximum of 10

Problems in clinical nephrology with emphasis placed on a pathophysiologic approach. Introduction to renal biopsy, peritoneal dialysis, and hemodialysis.

## MED 729: Clinical Program in General Internal Medicine

5-15 Credits/Maximum of 15

Introduction to the variety of illnesses and problem-solving techniques of the general internist.

## MED 733: Cardiology Acting Internship

5 Credits/Maximum of 5

Advanced training in cardiovascular pathophysiology and diseases for fourth-year students functioning as acting interns.

**Prerequisite:** third-year core clerkships

## MED 734: Clinical Elective in Endocrinology

5-15 Credits/Maximum of 15

Expose students to a large number of clinical endocrine problems, familiarize them with diagnostic laboratory procedures used in evaluating patients.

**Prerequisite:** basic core clerkships

## MED 736: Clinical Management of Obesity

5 Credits

This course provides exposure to the multifaceted area of obesity management, including diabetes, bariatric surgery, medical management and pediatrics

**Prerequisite:** successful completion of any third year course which includes direct patient care; permission of instructor required (email Dr. Boan or Dr. Ku); or successful completion of second year medical school at Penn State University Coll  
Cross-Listed

MED 738: Clinical Elective in Cardiology–Consultation Service

5 Credits/Maximum of 5

Students evaluate and follow in-patients on general non-cardiology services with cardiac problems referred to the Cardiology Consult Service.

**Prerequisite:** satisfactory completion of the Third Year Medicine Core Clerkship

MED 742A: Allergy and Immunology Clinical Elective for 3rd Year Students

2.5 Credits/Maximum of 2.5

Allergy and Immunology Clinical Elective for 3rd year students.

**Prerequisite:** permission of instructor

MED 745: Geriatric Elective

5 Credits

Students will perform assessments and develop care plans for hospitalized elders who are transitioning to home or long-term care setting.

**Prerequisite:** successful completion of all required clerkships

MED 747: Pediatric Allergy, Asthma and Immunology Elective

5 Credits/Maximum of 5

This course provides exposure to basic concepts for diagnosis and management of children and adults with allergic and immunologic diseases and respiratory and cutaneous abnormalities. MED 747 Clinical Elective in Allergy, Asthma and Immunology (5)The fourth year student rotating on the allergy service will experience an active and up to date Allergy and Immunology clinical service. Diseases you will be managing include allergic skin disorders, asthma, sleep, rhinitis, sinusitis, primary immunodeficiencies, recurrent infections, drug, food and insect allergy, and anaphylaxis. Developing an excellent history to include occupational, environmental and travel history will be facilitated. The student will be able to participate as an active member of the clinic and will have responsible for the patient. We anticipate that you will act as an intern and will manage the patient completely from start to finish. Clinic hours are daily 8 AM to 5 PM except Weds AM which is our academic time. In addition, to clinic there is an opportunity to participate in inpatient consults; however, the majority of time (90%) will be spend in the clinic seeing patients. Techniques include skin biopsy, skin test, patch testing, spirometry, and patient education and there will be ample opportunity to practice these techniques. Most of the education is done bedside during the patient's visit. Lastly, we expect that the student will present a short power point presentation, develop a manuscript or participate in research if time permits.

**Prerequisite:** successful completion of the 3rd year required clerkships Cross-listed with: PED 747

MED 748: Adult Rheumatology Elective

5 Credits

This course provides exposure to concepts utilized in the diagnosis and management of rheumatic diseases in adults. MED 748 Adult Rheumatology Elective (5)This course is designed to introduce fourth

year medical students to the basics of evaluation and management of adults with musculoskeletal disease with an emphasis on diagnosis and treatment of inflammatory and non inflammatory arthritis. This primarily outpatient experience will build on the concepts presented during the second year didactic course in MSK medicine that dealt with rheumatology topics as well as the Island I MSK portion which utilized physical diagnosis skills related to musculoskeletal joint evaluation. Students on this elective will serve as an integral part of the team and will be the first contact with returning and new patients in the outpatient clinic setting having had a chance to interact one on one with patients in order to practice history taking and exam skills. Students will then present the information to the attending physician where management and treatment options will be discussed. Pertinent physical exam and radiographic findings will be noted and technique for joint aspiration and injection will be demonstrated in the appropriate patients. Students will be expected to demonstrate evidence of independent reading on rheumatology topics and preparation of case based presentations for weekly conferences. Opportunities for interested students to participate in pediatric rheumatology clinics are also available during this time. The overall goal of this elective is to allow students to attain the basic skills and knowledge necessary for the initial evaluation and diagnostic work up of common presenting musculoskeletal complaints in the primary care outpatient and in-patient settings. Emphasis will be placed on pathophysiology, differential diagnosis, physical exam findings and management options as well as the essential portions of the history and physical exam. Students will be encouraged to practice their musculoskeletal exam skills under supervision in order to become proficient by the end of the four week elective. Evaluation methods will include a pre-test and post-test as well as subjective evaluation of students' fund of knowledge and patient care skills by the attending rheumatology faculty. This course will be offered throughout the entire academic year.

**Prerequisite:** completion of all of the third year core clerkships

MED 749: Medical Intensive Care Acting Internship (4th year)

5 Credits/Maximum of 5

Senior students assume Acting Intern responsibilities for Medical ICU level patients. This intense training is recommended for highly motivated students interested in a "hands-on" experience in the critical care unit.

**Prerequisite:** successful completion of third year core clerkships.

MED 757: Hematology-Oncology Subinternship

5 Credits/Maximum of 5

Students will function as acting interns in the inpatient hematology/ oncology unit under the direction of senior housestaff fellows and faculty.

**Prerequisite:** third-year core clerkships

MED 796: Medicine Individual Studies

5 Credits/Maximum of 5

Clinical or laboratory research on a selected topic by special arrangement with member of faculty who will act as preceptor.

**Prerequisite:** successful completion of 3rd year core clerkships. Student must contact course director for prior approval before registering for this course.

MED 796A: Medicine Individual Studies for 3rd Year

2.5 Credits

Medicine individual studies for 3rd year.

MED 797: Medicine Special Topics

5 Credits

Advanced clinical training in internal medicine or subspecialty  
–neurology, cardiology, clinical pharmacology, hematology,  
gastroenterology, endocrinology, pulmonary medicine, renal disease.

**Prerequisite:** successful completion of 3rd year core clerkships. Student must contact course director for approval prior to registering for course.

MED 797A: Cardiorespiratory

4 Credits

Cardiorespiratory

MED 797B: Reproductive Medicine/Endocrinology

6 Credits

Advanced clinical training in internal medicine or subspecialty  
–neurology, cardiology, clinical pharmacology, hematology,  
gastroenterology, endocrinology, pulmonary medicine, renal disease.

MED 797D: Profession of Medicine II

2 Credits

Advanced clinical training in internal medicine or subspecialty  
–neurology, cardiology, clinical pharmacology, hematology,  
gastroenterology, endocrinology, pulmonary medicine, renal disease.

MED 797E: Translating Health Care Science

1 Credits

Advanced clinical training in internal medicine or subspecialty  
–neurology, cardiology, clinical pharmacology, hematology,  
gastroenterology, endocrinology, pulmonary medicine, renal disease.