Pediatrics

The Department of Pediatrics gives the student a comprehensive exposure to primary care and subspecialty pediatrics. The experience ranges from exposure to a sick newborn to care of an adolescent patient. Inpatient and outpatient services are available. Student participation includes history-taking and examination of pediatric patients, making daily ward rounds with the staff physician, and rotation through general and subspecialty outpatient clinics and the full-term nursery. Electives are available in the Children’s Rehabilitation Unit, Behavioral Pediatrics, and all other subspecialties in pediatrics. Research electives are also available with department faculty members.

PED 915. Pediatric Cardiology. 4 Hours.
Inpatient and outpatient clinical experience in children with cardiac disease will be provided. Daily pediatric cardiology ward rounds are conducted by the senior staff. Active participation in the pediatric cardiology clinics each week highlight the outpatient experience. Personal instruction will be given in cardiac physical diagnosis with stress on cardiovascular hemodynamics, evaluation of heart sounds and murmurs, electrocardiograms, and cardiac radiology. Significant responsibility in patient management will be delegated to the student who will function as an instructor. This course will include involvement in the diagnosis and care of children with hematologic and oncologic diseases. The student will be involved directly with these patients under the supervision of the pediatric hematologist. During this time, he or she should become conversant with the general area of pediatric hematologic and oncologic diseases and be trained in the diagnostic procedures including bone marrow examination and other routine and special procedures used in this subspecialty area. The special emphasis placed on the psychological aspects of these diseases for the child and the family will be part of the training experience. The complications that commonly occur in patients on chemotherapy make these patients particularly appropriate for a broad experience. Offered in modules I-XII. Prerequisite: PED 900. FLD.

PED 917. Pediatric Hematology-Oncology. 4 Hours.
This course will include involvement in the diagnosis and care of children with hematologic and oncologic diseases. The student will be involved directly with these patients under the supervision of the pediatric hematologist. During this time, he or she should become conversant with the general area of pediatric hematologic and oncologic diseases and be trained in the diagnostic procedures including bone marrow examination and other routine and special procedures used in this subspecialty area. The special emphasis placed on the psychological aspects of these diseases for the child and the family will be part of the training experience. The complications that commonly occur in patients on chemotherapy make these patients particularly appropriate for a broad experience. Offered in modules I-XII. Prerequisite: PED 900. FLD.

PED 919. Developmental and Behavioral Pediatrics Elective. 4 Hours.
This course is designed to provide students with an in-depth understanding of children and their families. Students will learn about normal and atypical child development, behavioral and emotional problems commonly seen in Pediatrics (e.g., ADHD, depression, anxiety, oppositional behavior), and helping children cope with acute and chronic illnesses. Students will observe/participate in outpatient clinics in the Developmental Disabilities Center and Behavioral Pediatrics section (e.g., autism assessment, developmental medicine, telemedicine, feeding team, and behavioral pediatrics clinic), as well as in medical inpatient consultations. Within the curriculum there is ample opportunity to pursue individual interests related to children with developmental and behavioral problems. Expected to be offered in most Modules. One student per module. Prerequisite: PED 900 and permission of instructor. FLD.

PED 921. Pediatric Neurology. 4 Hours.
This module will serve to acquaint the student with the wide spectrum of neurological diseases of infancy, childhood, and adolescence. The student will become familiar with the neurological examination of the newborn, as well as assessment of the infant and child. During the elective rotation the student will become actively involved in the diagnosis and treatment of seizure disorders. The student will be exposed to routine laboratory procedures, such as lumbar puncture, EEG and brain scan, as well as special procedures, such as arteriography and pneumoencephalography. The student will be supervised by pediatric residents rotating through the pediatric neurology service and by staff physicians throughout all aspects of the module. Offered in modules I-XII. Prerequisite: PED 900. FLD.

PED 922. Pediatric Gastroenterology. 4 Hours.
The Pediatric Gastroenterology course will provide exposure to diseases of the gastrointestinal tract, liver and pancreas in infants and children. The students will obtain histories, physicals, and present cases on all Pediatric Gastrointestinal clinic and in-patients brought in for consultations. During endoscopy, motility, and biopsy of the small bowel and liver, the student will learn the indications and technique as applies to patients they have worked up. Each student will be required to present a 30-45 minute paper on a specific Pediatric Gastrointestinal subject at the end of the course. Evaluation for the course will be based on assessment of perforance of patient care and oral presentation and knowledge of literature. Prerequisite: Completion of third year. LEC.

PED 923. Developmental or Behavioral Pediatrics Elective. 2 Hours.
This 2-week course is designed to provide students with a streamlined introductions to childhood developmental, emotional, and behavioral problems. Students will also learn about normal and atypical child development. Students participate in outpatient clinics, telemedicine, and medical inpatient consultations with faculty from developmental pediatrics, psychology, speech-language, physical therapy, and occupational therapy. Expected to be offered in most Modules. One student per module. Prerequisite: PED 900 and permission of instructor. CLN.

PED 924. Pulmonology. 4 Hours.
Students will participate in the evaluation and management of infants, children, and adolescents with chronic and acute pulmonary diseases in the out-patient setting as well as performing in-patient consultations. The students will be involved directly with these patients under the supervision of the pediatric pulmonology faculty. CLN.

PED 925. Research in Pediatrics. 4-8 Hours.
Students will work on research programs arranged between them and the instructor. The purpose of the elective is to provide the student an opportunity to become familiar with clinical research involving children and pediatric problems, and to learn about research protocols and methods. Available areas of research include the newborn, cardiology, hematology, allergy, nephrology, neurology, endocrinology, infectious disease. Offered in modules I-XII. Prerequisite: Permission of instructor. IND.

PED 927. Pediatric Endocrinology and Metabolism. 4 Hours.
Students will participate in the diagnosis and management of pediatric-age patients with endocrine-metabolic problems. Emphasis is placed on the clinical problems that are unique to pediatric-age patients such as puberty, abnormalities of growth, and juvenile diabetes mellitus. Students are encouraged to become involved in patient management by participating in rounds, clinic, conferences, consultative evaluation and care of the inpatients, and other functions of the endocrinology-metabolism staff. Offered in modules I-XII. Prerequisite: PED 900. FLD.

PED 929. Allergy, Immunology, and Rheumatology. 4 Hours.
The Pediatric Immunology course will provide exposure to children with allergies, asthma, immunodeficiencies, autoimmune disease and arthritis. The approach to children with these disorders and the management of children with multisystem disease and chronic disease are emphasized. Students will be involved in the clinic and with consultations. The students
will have exposure to ongoing research in these areas and will attend teaching conferences. Offered in modules I-XII. Prerequisite: PED 900. FLD.

**PED 931. Nephrology. 4 Hours.**
Students will participate in the evaluation and management of children with urinary tract diseases and fluid and electrolyte disorders. This elective will give the students the opportunity to develop clinical skills in assessing a child's hydration status and in assessing the effect of the child's kidney disease or metabolic disorder on other organ systems. Students will also have the opportunity to review radiologic imaging studies of the urinary tract, to perform urinalyses, and to participate in the care of patients who require acute hemodialysis, peritoneal dialysis, or continuous arterio-venous hemofiltration. Prerequisite: PED 900. FLD.