

# Pediatrics (PEDI)

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Course information contained within the Bulletin is accurate at the time of publication in August 2023 but is subject to change. For the most up-to-date course information, please refer to the Course Catalog.

## **PEDI M201. Introductory Elective. 0 Credit Hours.**

This generic first and second year Pediatric elective serves as an introduction to a special topic in the Department of Pediatrics. Topics vary from semester to semester and may include an extension of a content area already covered in the required curriculum, an introduction to a new topic or research issue, or exposure to a clinical discipline. First and second year electives are optional and do not impact graduation requirements. Electives are scheduled for seven two-hour sessions each, for a total of fourteen contact hours. Student interest and faculty availability determine topics offered each semester.

## **PEDI M272. Ambulatory Pediatrics. 0 Credit Hours.**

**Course Attributes:** M5

**Repeatability:** This course may not be repeated for additional credits.

## **PEDI M273. Intro to Adolescent Med. 0 Credit Hours.**

**Course Attributes:** M5

**Repeatability:** This course may not be repeated for additional credits.

## **PEDI M274. Intro to Pediatrics. 0 Credit Hours.**

**Course Attributes:** M5

**Repeatability:** This course may not be repeated for additional credits.

## **PEDI M280. Neonatology. 0 Credit Hours.**

**Course Attributes:** M5

**Repeatability:** This course may not be repeated for additional credits.

## **PEDI M300. Pediatric Elective. 0 Credit Hours.**

This course will enable students to develop a basic understanding of the fund of knowledge and types of medical problems seen in this specialty; to develop a basic understanding of the medical decision making process involved in the practice; and to develop an understanding of and practice of medical interpersonal communication and professionalism.

**Repeatability:** This course may be repeated for additional credit.

## **PEDI M330. Pediatrics. 0 Credit Hours.**

**Course Attributes:** M7

**Repeatability:** This course may not be repeated for additional credits.

## **PEDI M418. Application of Data Science to Clinical Medicine and Medical Research. 0 Credit Hours.**

Data science, at the intersection of statistics and computer science, provides cutting edge tools for analyzing large data sets to provide predictive and causal models. These tools have been used extensively in the fields of econometrics and advertising (e.g. Google and Facebook); the application of data science to medicine is in its infancy, however, with the increasing availability of large clinical data sets, the opportunity to mine these sets for information has never been greater. While software engineers and applied mathematicians have the skills to use and develop these tools, they lack the content expertise needed to apply this knowledge to medicine. The purpose of this course is to provide medical students, graduate students, and medical researchers an opportunity to develop sufficient skills in modern data science to carryout research using large databases. It is assumed that the student has no training beyond introductory courses in statistics and/or epidemiology; no significant programming experience is required.

**Repeatability:** This course may be repeated for additional credit.

## **PEDI M610. Pediatric Hematology/Oncology. 0 Credit Hours.**

Pediatric hematology and oncology -- common or interesting diseases. The following topics will be covered including detailed pathophysiology and available clinical and diagnostic studies. Recent advances in therapy and molecular diagnosis, as well as specialized studies will be discussed. The purpose of enrolling patients on therapeutic randomized protocols will be addressed - anemia, the most common referral to hematology Clinic - Bleeding diathesis focusing on Von Willerand Disease -- the most common coagulopathy. Acute leukemia -- the most common malignancy in children. Sickle Cell disease --as an example of hemolytic disorder. Neutropenia in childhood. Chronic Disease -- overall management strategies.

**Repeatability:** This course may be repeated for additional credit.

**PEDI M649. Pediatric Gastroenterology. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M670. Pediatric Emergency Medicine. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M671. General Pediatrics/Inpatient. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M672. General Pediatrics/Ambulatory. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M673. Pediatric Allergy. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M674. Pediatric Anesthesiology. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M675. Pediatric Cardiology. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M676. Pediatric Endocrine/Metabolism. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M677. Adolescent Medicine. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M678. Pediatric Subspecialties. 0 Credit Hours.**

**Course Attributes:** M2

**Repeatability:** This course may not be repeated for additional credits.

**PEDI M679. Pediatric Surgery. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M681. Pediatric Immunology(HIV/AIDS). 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M682. Pediatric Infectious Diseases. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M683. Pediatric Rheumatology. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M685. Neonatal ICU (ICN) - Critical Care. 0 Credit Hours.**

The required critical care course will introduce students to the management of critically ill patients. Students are expected to follow their patients' progress and contribute to their care with supervision. Students will observe and assist as possible in procedures being performed in the ICU. Students will obtain exposure to assisted ventilation, palliative and end-of-life care.

**Course Attributes:** M2

**Pre-requisites:** Minimum grade of P in INTM M301, OBGY M320, PEDI M330, PSYM M340, SURG M350, NEUR M370, and FAMP M360.

**PEDI M686. Child Maltreat & Neglect. 0 Credit Hours.**

**Course Attributes:** M2

**Repeatability:** This course may not be repeated for additional credits.

**PEDI M689. Pediatric Pulmonary. 0 Credit Hours.**

**Course Attributes:** M2

**PEDI M690. Pediatric Pulmonary ICU/PICU. 0 Credit Hours.**

**Course Attributes:** M2

**Repeatability:** This course may not be repeated for additional credits.

**PEDI M691. Community Pediatric Health. 0 Credit Hours.**

The student will be exposed to outpatient pediatric patients in a private office setting. The student will learn about community resources and how physicians utilize these resources. In addition, experience will be gained in the management of both well and sick children who present to a pediatric practice. This rotation is primarily for the student who is interested in pursuing a residency in pediatrics. 2 weeks with a private practice in Coopersburg, PA; 2 weeks with a well established practice in Stroudsburg, PA. In addition, opportunities may be available for students to see families with the Visiting Nurse Association.

**Repeatability:** This course may be repeated for additional credit.

**PEDI M694. Ped Plastic & Recon Surgery. 0 Credit Hours.**

**Course Attributes:** M2

**Repeatability:** This course may not be repeated for additional credits.

**PEDI M695. Pediatric Neurology. 0 Credit Hours.**

A 4-week clinical rotation at St. Christopher's Hospital for Children (Philadelphia, PA) providing the student with direct patient care experience and participation in didactic and discussion sessions related to the spectrum of neurological disorders in children and young adults.

**Course Attributes:** M2

**Repeatability:** This course may be repeated for additional credit.

**PEDI M697. Ped Orthopedic Surgery. 0 Credit Hours.**

**Course Attributes:** M2

**Repeatability:** This course may not be repeated for additional credits.

**PEDI M698. Pediatrics. 0 Credit Hours.**

**Course Attributes:** M2

**Repeatability:** This course may not be repeated for additional credits.

**PEDI M700. Outpatient Pediatric Sub-I. 0 Credit Hours.**

This course is an advanced pediatric outpatient experience. The student will work with the house staff in caring for outpatients and has responsibility for participating in the management of these patients.

**Repeatability:** This course may be repeated for additional credit.

**PEDI M860. Pediatrics Subinternship. 0 Credit Hours.**

**Course Attributes:** M1

**Repeatability:** This course may be repeated for additional credit.