



MSIP Program and Course Descriptions

Program Description: Logan University's Master of Science in Integrative Pediatrics program is an evidence-based, clinically-focused master's program that prepares students to be pediatric specialists in the field of chiropractic healthcare. Students are guided to modify and adapt the knowledge and skills acquired during their chiropractic education to meet the unique needs of the pediatric population. Upon graduation, holders of the Master of Science degree in Integrative Pediatrics will not only have all the knowledge and skills needed to meet the chiropractic healthcare needs of the youngest members of society but will also be prepared to collaborate in the greater field of integrative pediatric healthcare.

Course Number	Course Name	Course Description
PEDS510	Fundamentals of Chiropractic Pediatrics	This course introduces students to the role of chiropractic care in pediatric health and wellness. Explorations include impact of pre-, peri-, and post-natal environment, unique characteristics of the pediatric patient, and implementation of chiropractic care within this population.
PEDS520	Pediatric Development	This course follows the development of a child from embryo through late adolescence. Students learn where body systems develop and how children grow and change physically, cognitively, socially, and emotionally through each stage of infancy, childhood, and adolescence. Students explore models and theories of development, with a special focus on clinical impacts of normal and abnormal development. Students apply this knowledge to the clinical setting to examine the age-appropriate development of a child and identify delays or unexpected development.
PEDS530	Pediatric Diagnostic Imaging	After reviewing normal imaging anatomy for different pediatric age ranges, students in this course learn to recognize imaging signs for common and uncommon pathological pediatric health conditions. Also discussed are appropriate clinical indications for the use of diagnostic imaging in pediatric patients, as well as which imaging technologies should be employed.

PEDS540	Examination of the Pediatric Patient	In this course, students learn to perform a general, full-systems physical examination, with emphasis on appropriate adaptations for patient age and development. Students learn to identify abnormal vs. normal physical examination findings according to systems and age.
PEDS550	Pediatric Technique 1	This course is a hybrid course with components online and a campus-based Pediatric Technique Review and Assessment session (PedTRA). This course is part one of a two-part series designed to deepen students' abilities to apply manual therapies to pediatric patients safely and effectively. In this course, students learn to modify and apply spinal and cranial adjustive techniques to pediatric patients of different ages and levels of development. Included are indications and contra-indications for the application of spinal and cranial techniques in children. Material in this course is included in the hands-on, campus-based PedTRA Session 1.
PEDS560	Pediatric Neurology	This course introduces students to the neurological profile of pediatric patients who seek chiropractic care. Explorations include the impact of prenatal through adolescent neurological development. Students will correlate how environment and unique characteristics of the pediatric patient result in normal and abnormal function of the nervous system. Implementation of neurological assessment tools and selected treatment techniques within this population are also highlighted.
PEDS570	Pediatric Case Management 1	This course is the first of a four-part series designed to deepen students' abilities to manage the health concerns of pediatric patients of all ages and levels of development. After discussing key components of a thorough pediatric history, students apply critical thinking and differential diagnosis concepts to case management of children with common pediatric health conditions. Emphasis is placed on developing clinical reasoning skills through case discussions.
PEDS580	Evidence-Informed Pediatric Practice	This course focuses on the knowledge and skills required to be an evidence-informed practitioner. After defining evidence-informed practice, students discuss practice evaluation and knowledge translation. Students review and build upon the skills required for scientific literacy to enable them to find, critically appraise, and assimilate evidence into a management plan for pediatric patients.

		The role of outcome measures is emphasized, with a focus on the incorporation of pediatric-centric outcome measures in chiropractic practice. Students are introduced to current scientific literature relevant to pediatric chiropractic practice through the critical appraisal process.
PEDS610	Pediatric Case Management 2	This course is the second of a four-part series designed to deepen students' abilities to manage the health concerns of pediatric patients of all ages and levels of development. In this course, the focus shifts to children with uncommon pediatric health conditions. Students learn the keys to recognizing the potential presence of such conditions, develop critical thinking and clinical management skills, and develop appropriate referral and co-management protocols.
PEDS620	Pediatric Nutrition	This course discusses optimal nutrition for various stages of childhood. Students learn to recognize and manage nutritionally related pediatric health conditions, with a focus on the use of nutritional therapeutics and dietary changes to address such conditions and improve overall health.
PEDS630	Pediatric Case Management 3	This course is the third of a four-part series designed to deepen students' abilities to manage the health concerns of pediatric patients of all ages and levels of development. The focus of this course is in-office management of children with sports injuries, extremity conditions, and mild traumatic brain injury (MTBI). Some of the material in this course is reviewed in the hands-on, campus-based PedTRA Session 2.
PEDS640	Pediatric Technique 2	This course is a hybrid course with components online and a campus-based Pediatric Technique Review and Assessment session (PedTRA). This course is part two of a two-part series designed to deepen students' abilities to apply manual therapies to pediatric patients safely and effectively. In this course, students learn to modify extremity adjustive and manual therapy techniques for pediatric patients of different ages and levels of development/ability. Material in this course is included in the hands-on, campus-based PedTRA Session 2.
PEDS650	Pediatric Public Health	Public health is "the science and art of preventing disease, prolonging life and promoting health through the organized efforts and informed choices of society, organizations, public and private, communities and

		<p>individuals." Through guided dialog and evidence-based applications, students learn public health principles and apply health promotion and prevention concepts to infants, children, and adolescents. Students learn models that facilitate professional communication of public health concepts to patients, parents, and other health care providers. Students build a learning portfolio that supports health advocacy, which contains tools that can be applied in clinical pediatric practice, which integrate determinants of health within a social ecological model and biopsychosocial framework.</p>
<p>PEDS660</p>	<p>Advanced Pediatric Case Management</p>	<p>This course is the final part of a four-part series designed to deepen students' abilities to manage the health concerns of pediatric patients of all ages and levels of development. This course focuses on helping students synthesize material learned earlier in the series to create an effective management plan. Students participate in virtual grand rounds as well as virtual field trips to create on-site experiences and create a publishable manuscript on a topic related to pediatric chiropractic care.</p>
<p>PEDS670</p>	<p>Advanced Pediatric Practice</p>	<p>This course encompasses a wide variety of topics relevant to experts in pediatric chiropractic. Students discuss career opportunities for the pediatric chiropractic specialist, setting up a safe and welcoming space for children, and jurisprudence and ethical issues in pediatric practice.</p>