

<b>MASTER OF PHYSICIAN ASSISTANT STUDIES/PEDIATRICS</b>
---

<b>FIRST YEAR</b>
-------------------

<b>SUMMER SEMESTER*</b>
-------------------------

<b>FIRST YEAR</b>
-------------------

**MPAS 5100 [Human Anatomy](#)** **[6.0 cr.](#)**

Dr. N. Bookstein, Ed.D.

In-depth study of gross human anatomic structure with emphasis directed to musculoskeletal and neuromuscular systems. Clinical correlates to normal movement and pathological processes will be made.

**MPAS 5201 [Psychosocial Aspects of Health Care I](#)** **[2.0 cr.](#)**

K. Tick, MSW

Emphasis is placed on social, emotional and psychological factors affecting pregnancy and parent/newborn relationships. Basic communication skills in organizing an interview and developing a working relationship with parents are stressed. The team approach to comprehensive health care is also discussed.

**MPAS 5400 [Physical Diagnosis](#)** **[2.0 cr.](#)**

J. Bowser, PA-C

This course consists of lectures on physical diagnosis of pediatric, adult and geriatric patients, with an opportunity to practice exam skills during practicum sessions.

**MPAS 5601 [Introduction to Clinical Reasoning](#)** **[1.0 cr.](#)**

R. Maldonado, PA-C

An introduction to ambulatory medicine in a problem based format. This includes a demonstration of a problem based case, review of comprehensive medical history taking and documentation. Methods of accessing information to assist in solving Clinical problems will be presented.

<b>FALL SEMESTER*</b>
-----------------------

<b>FIRST YEAR</b>
-------------------

**MPAS 5111 [Integrated Sciences Basic to Medicine](#)** **[4.0 cr.](#)**

M. Hall, PhD

This two semester sequence will cover and integrate the principles of biochemistry, physiology and Clinical biochemistry. Clinical presentations will be used throughout the course to underscore the relationship between the basic Sciences and the Clinical presentation of disease.

**MPAS 5120 [Medical Microbiology](#)** **[2.0 cr.](#)**

Dr. M. Abzug

Course covers the fundamental properties of pathogenic bacteria, viruses and fungi and the diseases these organisms cause. The various properties of bacteria are correlated with pathogenesis of disease.

**MPAS 5202 [Psychosocial Aspects of Health Care II](#)** **[2.0 cr.](#)**

K. Tick, LCSW

Course addresses common psychological concerns seen in the pediatric setting, with special attention to the needs of the handicapped child and his family, child abuse, death, alcoholism, etc. Communication skills which enhance information gathering are discussed. Community resources are investigated.

**MPAS 5300 [Assess & Care-Neonate](#)** **[2.0 cr.](#)**

Dr. M. Kohn.

Common neonatal and infant medical problems are presented in preparation for the Lifespan Clinical experience, MPAS 5930.

**MPAS 5412 [Physical Diagnosis](#)** **[2.0 cr.](#)**

J. Bowser, PA-C

This course is a continuation of MPAS 5400.

**MPAS 5420 [Women's Health](#)** **[2.0 cr.](#)**

Faculty To Be Determined

The course is designed to provide students with basic information about obstetrics and gynecology.

**MPAS 5602 [Prob-Based Clinical Reasoning I](#)** **[4.0 cr.](#)**

R. Maldonado, PA-C

This course is a continuation of MPAS 5601. Comprehensive care in ambulatory medicine is covered in a problem-based format. This includes infancy to adulthood, health maintenance and acute illnesses, anticipatory guidance/patient education, diagnosis and treatment and developmental assessment.

**MPAS 5801 Professional and Clinical Practice I**

**2.0 cr.**

D. Eckhardt, PA-C

This core course is designed to introduce the student to issues related to professional practice and facilitate the development of various clinical skills through discussion and simulation, integrating didactic and clinical coursework.

**MPAS 5901 Community Clinic**

**2.0 cr.**

D. Eckhardt, PA-C,

Clinical experience designed to give the student an introduction to ambulatory medicine and an understanding of pediatric and family practice medicine.

**SPRING SEMESTER\***

**FIRST YEAR**

**MPAS 5112 Integrated Sciences Basic to Medicine II**

**4.0 cr.**

Dr. M. Hall,

This course is a continuation of MPAS 5111.

**MPAS 5131 Gen and Sys Pathol**

**5.0 cr.**

Dr. M. Rizeq, Dr. S. Nawaz

Normal cell and tissue structure is correlated with functional aspects. Homeostasis and mechanisms of disease processes are discussed. Mechanisms to be discussed include cell and tissue injury and repair, inflammation, immunopathology, neoplasia, and metabolic and genetic abnormalities.

**MPAS 5140 Neuroscience**

**1.0 cr.**

R. Gisbert, PT, MS

Principles of neurophysiology and neuroanatomy introduced. Membrane receptors, membrane potentials, synaptic transmission, and neuromuscular junctions, blood supply, three dimensional topography of the nervous system. Functional correlates and sensory and motor tracks of the spinal cord and brainstem included.

**MPAS 5203 Psychosocial Aspects of Health Care III**

**2.0 cr.**

K. Tick, LCSW

Theories of personality development and basic diagnostic categories of psychopathology are presented. Emphasis is given to ways this knowledge can be applied in working with families in the pediatric Clinical setting. Adolescent development is also discussed. Communication skills used in counseling parents and children are stressed.

**MPAS 5220 Parenting**

**1.0 cr.**

K. Tick, LCSW

This small group seminar addresses techniques and approaches to guiding and advising clients in their role as parents.

**MPAS 5603 Prob-Bas Clinical Reasoning II**

**4.0 cr.**

R. Maldonado, PA-C

This course is a continuation of MPAS 5602. Comprehensive care in ambulatory medicine is covered in a problem-based format. This includes infancy to adulthood, health maintenance and acute illnesses, anticipatory guidance/patient education, diagnosis and treatment and developmental assessment.

**MPAS 5700 Prevention Across the Lifespan**

**2.0 cr.**

Faculty To Be Determined

This course will provide the student with topics including immunizations, health maintenance and other prevention topics encompassing health care for patients from newborn to the elderly.

**MPAS 5802 Professional and Clinical Practice II**

**2.0 cr.**

D. Eckhardt, PA-C

A continuation of MPAS 5801. Successful completion of MPAS 5801 is a pre-requisite.

**MPAS 5902 Community Clinic**

**2.0 cr.**

D. Eckhardt, PA-C

Clinical experience designed to give the student an introduction to ambulatory medicine and an understanding of pediatric and family practice medicine.

**PRMD 5000 Ethics in Health Prof I**

**0.7 cr.**

Course Director, Jackie Glover, Ph.D.,

Required two-part course in ethics taught with dental, medical, nursing, pharmacy, physical therapy and physician assistant students. This course includes basic knowledge and skills in ethical theory and reasoning, professional ethics, and inter-professional approaches to health care decision making.

**SECOND YEAR**

**FALL SEMESTER\***

**SECOND YEAR**

- MPAS 6101 [Pharmacology](#)** **2.0 cr.**  
Dr.T. French  
Discussion of the Clinical aspects of drug absorption, metabolism, excretion, and the dynamics of drug action.
- MPAS 6110 [Immunology](#)** **1.0 cr.**  
Dr. J.J. Cohen – 303-315-7963 x3. Max:42  
Offered in Fall 2009. A comprehensive course of basic and some Clinical immunology with the stress on the human immune system.
- MPAS 6201 [Applied Behavioral Medicine I](#)** **2.0 cr.**  
K. Tick, LCSW –  
Discussion of emotional, behavioral, psychosomatic and psychiatric problems commonly encountered by physician assistants in primary care settings. Evaluation, management and appropriate referral will be emphasized.
- MPAS 6301 [Pediatric Clinical Medicine I](#)** **2.5 cr.**  
R. Maldonado, PA-C  
Discussion of pediatric medical and surgical conditions, including pathophysiology, diagnosis and treatment.
- MPAS 6310 [Dermatology](#)** **1.0 cr.**  
Faculty To Be Determined  
Discussions on evaluating and managing dermatologic problems in pediatrics and adults.
- MPAS 6401 [Adult Clinical Medicine I](#)** **2.5 cr.**  
J. Bowser, PA-C  
Discussion of adult medical and surgical conditions, including pathophysiology, diagnosis and treatment.
- MPAS 6420 [Women's Health II](#)** **1.0 cr.**  
Faculty To Be Determined  
The course is designed to provide students with basic information about gynecology.
- MPAS 6511 [Emergency Medicine I](#)** **2.0 cr.**  
S. Fallon, PA-C  
Discussion of the principles of assessment and management of medical and surgical emergencies.
- MPAS 6601 [Community Clinic Section I](#)** **2.0 cr.**  
D. Eckhardt, PA-C  
Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.
- MPAS 6604 [Community Clinic Section IV](#)** **2.0 cr.**  
D. Eckhardt, PA-C  
Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.
- MPAS 6605 [Community Clinic Section V](#)** **2.0 cr.**  
D. Eckhardt, PA-C  
Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.
- MPAS 6606 [Community Clinic Section VI](#)** **2.0 cr.**  
D. Eckhardt, PA-C  
Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.
- MPAS 6660 [Palliative Care Preceptorship](#)** **2.0 cr.**  
D. Eckhardt, PA-C  
Students will develop assessment and patient management skills in care of patients in hospice settings.
- MPAS 6800 [PA Role Development](#)** **1.0 cr.**  
C. Ruff, PA-C  
Lectures and discussions on PA professional development, including professional behavior, community education, and risk management.
- MPAS 6803 [Professional and Clinical Practice III](#)** **2.0 cr.**  
J. Sivahop, PA-C

This core course is designed to continue to explore professional practice issues, facilitate the development of various clinical skills through discussion and simulation, and integrate didactic and clinical coursework. MPAS 5801 and 5802 are pre-requisites.

**PRMD 6000 Ethics in Health Prof II**

**0.7 cr.**

Course Director, Jackie Glover, Ph.D.

Required two-part course in ethics taught with dental, medical, nursing, pharmacy, physical therapy and physician assistant students. This course includes basic knowledge and skill in ethical theory and reasoning, professional ethics, and inter-professional approaches to health care decision making.

SPRING SEMESTER	SECOND YEAR
-----------------	-------------

**MPAS 6000 Lab and Clinical Skills**

**1.0 cr.**

J. Sivahop, PA-C

Students are introduced to basic laboratory skills including lab interpretation, injection techniques, biopsy methods, as well as methods in which to educate patients on the use of home care devices for the management of diabetes and asthma. Clinical skills related to patient education will be emphasized

**MPAS 6102 Pharm for CHA II**

**4.0 cr.**

Dr. T. French

This course is a continuation of MPAS 6101.

**MPAS 6202 Applied Behavioral Medicine II**

**2.0cr.**

K. Tick, LCSW

This course is a continuation of MPAS 6201.

**MPAS 6302 Pediatric Clinical Medicine II**

**2.5 cr.**

R. Maldonado, PA-C

This course is a continuation of MPAS 6301.

**MPAS 6402 Adult Clinical Medicine II**

**2.5 cr.**

J. Bowser, PA-C

This course is a continuation of MPAS 6401.

**MPAS 6510 Orthopedics**

**1.0 cr.**

R. Gierbolini, PA-C

A discussion of the principles of assessment and management of orthopedic problems for physician assistants in primary care. Laboratory sessions will provide an opportunity to practice orthopedic examinations and management techniques.

**MPAS 6512 Emergency Medicine**

**2.0 cr.**

S. Fallon, PA-C

Discussion of the principles of assessment and management of medical and surgical emergencies.

**MPAS 6601 Community Clinic Section I**

**2.0 cr.**

D. Eckhardt, PA-C

Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.

**MPAS 6604 Community Clinic Section IV**

**2.0 cr.**

D. Eckhardt, PA-C

Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.

**MPAS 6605 Community Clinic Section V**

**2.0 cr.**

D. Eckhardt, PA-C

Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.

**MPAS 6606 Community Clinic Section VI**

**2.0 cr.**

D. Eckhardt, PA-C

Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.

**MPAS 6660 [Palliative Care Preceptorship](#)** **[2.0 cr.](#)**  
D. Eckhardt, PA-C  
Students will develop assessment and patient management skills in care of patients in hospice settings.

**MPAS 6701 [Evidence-Based Medicine I](#)** **[2.0 cr.](#)**  
D. Solanyk, PA-C, L. Traditi, MLS  
Students are introduced to the conscientious, explicit and judicious use of current best evidence in Clinical decision-making.

**MPAS 6702 [Evidence-Based Medicine II](#)** **[2.0 cr.](#)**  
A. Glicken, MSW  
This course is a continuation of MPAS 6701.

**MPAS 6804 [Professional and Clinical Practice VI](#)** **[2.0 cr.](#)**  
J. Sivahop, PA-C  
A continuation of MPAS 6803. Successful completion of MPAS 6803 is a pre-requisite.

<b>SUMMER SEMESTER ROTATION OPTIONS</b>	<b>SECOND YEAR</b>
---	--------------------

**MPAS 6601 [Community Clinic Section I](#)** **[2.0 cr.](#)**  
D. Eckhardt, PA-C  
Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.

**MPAS 6650 [Surgery Clinical Preceptorship \(Summer 2012\)](#)** **[2.0 cr.](#)**  
D. Eckhardt, PA-C  
Students will learn clinical skills in surgical medicine, including history taking, physical diagnosis, assessment and patient management and will observe or participate in surgical procedures under the supervision of community clinical preceptors

**MPAS 6686 [Track Clinical Elective LEADS – 8 Weeks](#)** **[2.0 cr.](#)**  
SOM Faculty  
Registration is restricted to those students enrolled in an authorized Track. Travel to an authorized site with participation in a Track-specific project. Students will provide a written report and oral presentation.

<b>ALL SEMESTERS*</b>	<b>SECOND YEAR</b>
-----------------------	--------------------

**MPAS 6602 [Community Clinic Section II](#)** **[2.0 cr.](#)**  
D. Eckhardt, PA-C  
Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.

**MPAS 6603 [Community Clinic Section III](#)** **[2.0 cr.](#)**  
D. Eckhardt, PA-C  
Students will learn clinical skills in pediatric medicine, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under the supervision of community clinical preceptors.

**MPAS 6670 [Women's Health Preceptorship](#)** **[2.0 cr.](#)**  
D. Eckhardt, PA-C  
Students will develop assessment and patient management skills in women's health under the supervision of community clinical preceptors.

<b>THIRD YEAR</b>
-------------------

<b>ALL SEMESTERS</b>	<b>THIRD YEAR</b>
----------------------	-------------------

**MPAS 6920 [Neonatology](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

This course involves active participation in the care of neonates in a teaching hospital. Attendance at morning rounds, making case presentations and participating in the night and weekend call schedule are required. Students are encouraged to attend deliveries and perform circumcision and other procedures with appropriate supervision.

**MPAS 6930 [Ambulatory Pediatrics \(Sec I, II\)](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

Course involves active participation in care of patients in an ambulatory pediatric practice, including health maintenance, diagnosis and treatment, patient/parent education and follow-up. Course may be used to fulfill requirement of service to a rural (regular track students only) or medically underserved population.

**MPAS 6932 [Academic Inpatient Pediatric Medicine](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

This course involves active participation as a member of the house-staff pediatric inpatient team in a teaching hospital. Attendance at morning rounds, making case presentations and participating in the night and weekend call schedule are required.

**MPAS 6934 [Pediatric Elective I - 2 Week Rotation \(Sec I, II, III\)](#)****[2.0 cr.](#)**

J. Sivahop, PA-C

This Clinical experience involves active participation in a specialty area of pediatric medicine for 2 weeks.

**MPAS 6936 [Pediatric Elective II - 4 Week Rotation \(Sec I, II, III\)](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

This Clinical experience involves active participation in a specialty area of pediatric medicine for 4 weeks.

**MPAS 6938 [Adolescent Medicine](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

This course involves active participation in the care of patients in a clinical setting specializing in adolescent medicine with an emphasis on the medical, psychosocial, developmental, educational and sexual issues that are unique to adolescents.

**MPAS 6940 [Family Medicine](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

This course involves active participation in the care of patients in a family medicine setting, including health maintenance, diagnosis, and treatment, patient education, and follow-up for patients of all ages.

**MPAS 6942 [Inpatient Adult Medicine](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

This course involves active participation as a member of the housestaff inpatient team in a teaching hospital. Attendance at morning rounds, making case presentations and participating in the night and weekend call schedule are required.

**MPAS 6946 [Women's Health I – 2 Week Rotation](#)****[2.0 cr.](#)**

J. Sivahop, PA-C

This course involves active participation in an obstetrics and gynecology practice. Attendance at deliveries is encouraged and participating in the night and weekend call schedule may be required.

**MPAS 6947 [Women's Health II – 4 Week Rotation](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

This course involves active participation in an obstetrics and gynecology practice. Attendance at deliveries is encouraged and participating in the night and weekend call schedule may be required.

**MPAS 6948 [Emergency Medicine](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

The course involves active participation in an emergency department. Attendance at meetings, conferences, and participating in the night and weekend call schedule are required.

**MPAS 6950 [Rural Track Ambulatory Pediatrics](#)****[3.0 cr.](#)**

J. Sivahop, PA-C

This course involves active participation in an ambulatory pediatric practice in the same geographical region as the rural family medicine block, or in a location to which the rural family medicine practice (MPAS 6952 Sections 1, 2, 3) refers their patients.

**MPAS 6952 Rural Track Family Medicine (Sec I-III)**

**3.0 cr.**

J. Sivahop, PA-C

This block is comprised of three sections which must be completed in sequence in a single family medicine practice located in rural Colorado. The sequence involves participation in the care of patients in a family medicine setting, including health maintenance, diagnosis and treatment, patient education and follow-up for patients of all ages.

**MPAS 6969 Adult Elective I – 2 Week Rotation (Sec I-IV)**

**2.0 cr.**

J. Sivahop, PA-C

The Clinical experience involves active participation in a specialty area of adult medicine for 2 weeks.

**MPAS 6970 Adult Elective II – 4 Week Rotation (Sec I-IV)**

**3.0 cr.**

J. Sivahop, PA-C

This Clinical experience involves active participation in a specialty area of adult medicine for 4 weeks.

**MPAS 6974 Adult Internal Medicine**

**3.0 cr.**

J. Sivahop, PA-C

The course involves active participation in an internal medicine adult practice in either the outpatient or inpatient setting. Participating in the night and weekend call schedule may be required.

**MPAS 6980 Third Year Clinical Seminar**

**2.0 cr.**

J. Sivahop, PA-C

Third year clinical affords students the opportunity to present a patient encounter using multimedia technology and evidence-based research. This forum will encourage discussion of a vast array of medical conditions.