### CHILD HEALTH ASSOCIATE/PHYSICIAN ASSISTANT

**FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Semesters</th>
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</thead>
<tbody>
<tr>
<td>MPAS 5111</td>
<td>Int Sci Bas to Med I</td>
<td>4.0</td>
<td>Fall Sem.</td>
</tr>
<tr>
<td>MPAS 5120</td>
<td>Medical Microbio</td>
<td>2.0</td>
<td>Fall Sem.</td>
</tr>
<tr>
<td>MPAS 5202</td>
<td>Psychosoc Asp HC II</td>
<td>2.0</td>
<td>Fall Sem.</td>
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<tr>
<td>MPAS 5300</td>
<td>Assess&amp;Care-Neonate</td>
<td>2.0</td>
<td>Fall Sem.</td>
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<tr>
<td>MPAS 5412</td>
<td>Physical Diagnosis</td>
<td>2.0</td>
<td>Fall Sem.</td>
</tr>
<tr>
<td>MPAS 5420</td>
<td>Women's Health</td>
<td>2.0</td>
<td>Fall Sem.</td>
</tr>
<tr>
<td>MPAS 5602</td>
<td>Prob-Based Clinical Reasoning I</td>
<td>4.0</td>
<td>Fall Sem.</td>
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**SUMMER SEMESTER**

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<tbody>
<tr>
<td>MPAS 5100</td>
<td>Human Anatomy</td>
<td>6.0</td>
<td>Summer Sem.</td>
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<tr>
<td>MPAS 5201</td>
<td>Psychosoc Asp HC I</td>
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<td>Summer Sem.</td>
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<tr>
<td>MPAS 5400</td>
<td>Physical Diagnosis</td>
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</tr>
<tr>
<td>MPAS 5601</td>
<td>Intr to Clin Reasoning</td>
<td>1.0</td>
<td>Summer Sem.</td>
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**FIRST YEAR**

**SUMMER SEMESTER**

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**FALL SEMESTER**

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</table>
MPAS 5901  Community Clinic  Fall Sem.  2.0 cr.
Clinical experience designed to give the student an introduction to ambulatory medicine and an understanding of pediatric and family practice medicine. A related small group seminar is designed to discuss this clinical experience.

SPRING SEMESTER*

MPAS 5112  Int Sci Bas to Med II  Spring Sem.  4.0 cr.
Dr. M. Hall, – 303-315-7963 x3.  Max:42
This course is a continuation of MPAS 5111.

MPAS 5131  Gen and Sys Pathol  Spring Sem.  5.0 cr.
Dr. M. Rizeq, Dr. S. Nawaz – 303-315-7963 x3. Max:40
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  Spring Sem.  1.0 cr.
R. Gisbert, PT, MS – 303-315-7963 x3. Max:40
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  Psychosoc Asp HC III  Spring Sem.  2.0 cr.
K. Tick, LCSW – 303-315-7963 x3. Max:40
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  Spring Sem.  1.0 cr.
This small group seminar addresses techniques and approaches to guiding and advising clients in their role as parents.

MPAS 5603  Prob-Bas Clin. Reasoning II  Spring Sem.  4.0 cr.
R. Maldonado, PA-C – Max:42
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 5940  Lifespan Clin Rotn  Spring Sem.  4.0 cr.
S. Hoops, PA-C, – 303-315-7963 x3. Max:42
Students are introduced to the management of infants in the newborn nursery and the care of the geriatric patient in long term care settings such as nursing and assisted living homes.

PRMD 5000  Ethics in Hlth Prof I  Spring Sem.  0.7 cr.
Course Director, Jackie Glover, Ph.D., 303-724-3992.
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*

MPAS 6101  Pharmacology  Fall Sem.  2.0 cr.
Dr. T. French – 303-315-7963 x3. Max:40
Discussion of the clinical aspects of drug absorption, metabolism, excretion, and the dynamics of drug action.

MPAS 6110  Immunology  Fall Sem.  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  App Behav Med I  Fall Sem.  2.0 cr.
K. Tick, LCSW – 303-315-7963 x3. Max:40
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 Clin Med I  Fall Sem.  2.5 cr.
R. Maldanado, PA-C – 303-315-7963 x3. Max:42
Discussion of pediatric medical and surgical conditions, including pathophysiology, diagnosis and treatment.

MPAS 6401  Adult Clin Med I  Fall Sem.  2.5 cr.
J. Bowser, PA-C – 303-315-7963 x3. Max:42
Discussion of adult medical and surgical conditions, including pathophysiology, diagnosis and treatment.

MPAS 6511  Emergency Med I  Fall Sem.  2.0 cr.
S. Fallon, PA-C – 303-315-7963 x3. Max:40
Discussion of the principles of assessment and management of medical and surgical emergencies.

MPAS 6610  Pediatric Derm  Fall Sem.  1.0 cr.
Dr. J. Burch – 303-315-7963 x3. Max:42
Discussions on evaluating and managing dermatologic problems in pediatrics.

MPAS 6800  PA Role Development  Spring Sem.  1.0 cr.
C. Ruff, PA-C – 303-315-7963 x3. Pass/Fail Max:42
Lectures and discussions on PA professional development, including professional behavior, community education, and risk management.

PRMD 6000  Ethics in Hlth Prof II  Fall Sem.  0.7 cr.
Course Director, Jackie Glover, Ph.D., 303-315-6093
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.

MPAS 6000  Lab and Clinical Skills  Spring Sem.  1.0 cr.
J. Sivahop – 303-315-7963 x3. Max:40
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  Spring Sem.  4.0 cr.
Dr. T. French – 303-315-7963 x3. Max:40
This course is a continuation of MPAS 6101.

MPAS 6202  App Behav Med II  Spring Sem.  2.0 cr.
K. Tick, LCSW – 303-315-7963 x3. Max:40
This course is a continuation of MPAS 6201.

MPAS 6302  Pediatric Clin Med II  Spring Sem.  2.5 cr.
R. Maldanado, PA-C – 303-315-7963 x3. Max:42
This course is a continuation of MPAS 6301.

MPAS 6402  Adult Clin Med II  Spring Sem.  2.5 cr.
J. Bowser, PA-C – 303-315-7963 X3. Max:42
This course is a continuation of MPAS 6401.

MPAS 6510  Orthopedics  Spring Sem.  1.0 cr.
R. Gierbolini, PA-C – 303-315-7963 x3. Max:40
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 Med  Spring Sem.  2.0 cr.
S. Fallon, PA-C – 303-315-7963 x3. Max:40
Discussion of the principles of assessment and management of medical and surgical emergencies.

MPAS 6701  Evidence-Bas Med I  Fall Sem.  2.0 cr.
A. Glicken, MSW – 303-315-7963 x3. Max:42
Students are introduced to the conscientious, explicit and judicious use of current best evidence in clinical decision-making.

MPAS 6702  Evid Bas Med II  Spring Sem.  2.0 cr.
A. Glicken, MSW – 303-315-7963 x3. Max:42
This course is a continuation of MPAS 6701.
MPAS 6500  Surgery Clin Prec  Summer Sem.  
J. Nieman, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
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 6600  Community Clinic  All Sems.  
J. Nieman, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
Students will learn clinical skills in pediatrics, adolescent medicine, family medicine and elective requirements, including history taking, physical diagnosis, assessment and patient management under supervision of community clinical preceptors. Students will be required to discuss current experiences in group format.

MPAS 6700  Wmn’s Hlth Clin Prec  All Sems.  
Students will develop assessment and patient management skills in women’s health under the supervision of community clinical preceptors. Students will also be required to discuss current clinical experiences in a group format.

MPAS 6980  Third Year Clinical Seminar  Spring  
S. Hoops, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
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.

ALL SEMESTERS

MPAS 6920  Neonatology  All Sems.  
S. Hoops, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
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 circumcisions and other procedures with appropriate supervision.

MPAS 6930  Amb Ped Med (Sec I, II)  All Sems.  
S. Hoops, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
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  Inpatient Ped Med  All Sems.  
S. Hoops, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
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  Ped Elec (Sec I, II, III)  All Sems.  
S. Hoops, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
This clinical experience involves active participation in a specialty area of pediatric medicine.

MPAS 6938  Adolesc Med  All Sems.  
S. Hoops, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
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 Med  All Sems.  
S. Hoops, PA-C – 303-315-7963 x3. Pass/Fail Max:40  
Involves active participation in patient care in a family medicine setting, health maintenance, diagnosis,
treatment, patient education, follow-up for patients of all ages. May be used to fulfill service requirement to rural (regular track students only) or medically underserved population.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semesters</th>
<th>Credits</th>
<th>Instructor</th>
<th>Phone</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPAS 6942</td>
<td>Inpatient Fam Med</td>
<td>All Sems.</td>
<td>2.0 cr.</td>
<td>S. Hoops, PA-C</td>
<td>303-315-7963 x3</td>
<td>Pass/Fail. Max:40</td>
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<td>This course involves active participation as a member of the house-staff family medicine inpatient team in a teaching hospital. Attendance at morning rounds, making case presentations and participating in the night and weekend call schedule are required.</td>
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<tr>
<td>MPAS 6946</td>
<td>Women’s Healthcare</td>
<td>All Sems.</td>
<td>1-2 cr.</td>
<td>S. Hoops, PA-C</td>
<td>303-315-7963 x3</td>
<td>Pass/Fail. Max:40</td>
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<td>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.</td>
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<tr>
<td>MPAS 6948</td>
<td>Emer Med/Urg Care</td>
<td>All Sems.</td>
<td>2.0 cr.</td>
<td>S. Hoops, PA-C</td>
<td>303-315-7963 x3</td>
<td>Pass/Fail. Max:40</td>
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<td>The course involves active participation in an emergency department or urgent care practice. Attendance at meetings, conferences, and participating in the night and weekend call schedule are required.</td>
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<tr>
<td>MPAS 6950</td>
<td>Rur Trk Amb Ped</td>
<td>All Sems.</td>
<td>2.0 cr.</td>
<td>S. Hoops, PA-C</td>
<td>303-315-7963 x3</td>
<td>Pass/Fail. Max:40</td>
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<td>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.</td>
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<tr>
<td>MPAS 6952</td>
<td>Rur Trk Fam Med (Sec I-III)</td>
<td>All Sems.</td>
<td>2.0 cr.</td>
<td>S. Hoops, PA-C</td>
<td>303-315-7963 x3</td>
<td>Pass/Fail. Max:40</td>
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<td>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 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.</td>
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<tr>
<td>MPAS 6970</td>
<td>Adult Elec (Sec I-IV)</td>
<td>All Sems.</td>
<td>1–2 cr.</td>
<td>S. Hoops, PA-C</td>
<td>303-315-7963 x3</td>
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<td>This clinical experience involves active participation in a specialty area of adult medicine.</td>
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<tr>
<td>MPAS 6974</td>
<td>Adult Int Med</td>
<td>All Sems.</td>
<td>2.0 cr.</td>
<td>S. Hoops, PA-C</td>
<td>303-315-7963 x3</td>
<td>Pass/Fail. Max:40</td>
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<td>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.</td>
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<tr>
<td>CHAM 6704</td>
<td>Mast Proj Prop</td>
<td>All Sems.</td>
<td>2.0 cr.</td>
<td>A. Glicken, MSW</td>
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<td>First segment of clinical research project: formulating a worthy problem for investigation, in-depth literature review, methodology overview, its feasibility/limitations, plans for analysis of data, timetable of the study. A field expert and program faculty sponsor should be solicited as advisors. COURSE OFFERED SUMMER 2009 ONLY FOR STUDENTS COMPLETING THE MS DEGREE</td>
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<tr>
<td>CHAM 6710</td>
<td>Mast Proj Fin Rpt</td>
<td>All Sems.</td>
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<td>The second segment of the project includes carrying out all field work and data collection of the approved proposal, analysis of data, and preparation of the final report. Advisors/consultants should be utilized to monitor each step as it proceeds. COURSE OFFERED SUMMER 2009 ONLY FOR STUDENTS COMPLETING THE MS DEGREE</td>
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<tr>
<td>CHAM 6711</td>
<td>Mast Proj Oral Pres</td>
<td>All Sems.</td>
<td>1.0 cr.</td>
<td>A. Glicken, MSW</td>
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<td>The third segment of the graduate project demands an oral presentation of the completed project to CHAP faculty, students, instructors, project sponsors and other interested parties. COURSE OFFERED SUMMER 2009 ONLY FOR STUDENTS COMPLETING THE MS DEGREE</td>
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