Physician Assistant Studies and Services

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Graduate degree: M.P.A.S.

Faculty: http://www.medicine.uiowa.edu/pa/faculty/
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The physician assistant profession is one of the newest and most exciting in health care. Physician assistants (PAs) are licensed to practice medicine with physician supervision. They are responsible for making medical decisions and providing a broad range of diagnostic and therapeutic services.

Physician assistants work in a variety of settings, including medical offices, hospital emergency rooms, nursing homes, rural satellite clinics, health maintenance organizations, and patients' homes.

In the traditional office setting, PAs see patients, obtain histories, perform physical examinations, and order necessary laboratory and/or radiological studies. Based on this information, the PA establishes a diagnosis, develops an appropriate management plan, and initiates treatment that may include prescribing medications. The physician is consulted as needed and remains ultimately responsible for the care provided by the physician/PA team. PAs also are involved in both patient and community health education.

The Department of Physician Assistant Studies and Services is part of the Carver College of Medicine. It is located on the University of Iowa health sciences campus, which includes University of Iowa Hospitals and Clinics, one of the nation's largest university-owned teaching hospitals.

Graduate Program of Study

- Master of Physician Assistant Studies

The Master of Physician Assistant Studies (M.P.A.S.) program emphasizes primary care medicine, particularly family medicine. It also offers elective clinical rotations in selected medical subspecialties. Students who complete the program are eligible to take the National Certifying Examination for Primary Care Physician Assistants, which they must complete successfully in order to register as physician assistants in the United States.

The Department of Physician Assistant Studies and Services is accredited by the Accreditation Review Commission on Education for the Physician Assistant and is a member of the Physician Assistant Education Association.

Master of Physician Assistant Studies

The Master of Physician Assistant Studies requires a minimum of 114 s.h. of credit. The curriculum spans 28 months and consists of a preclinical phase and a clinical phase. The program begins in August.

The Master of Physician Assistant Studies requires the following work.

Preclinical Curriculum

The M.P.A.S. program's preclinical phase is built on a triple-helix model whose three strands consist of clinical and professional skills (CAPS), mechanisms of health and disease (MOHD), and medicine and society (MAS). The strands are interwoven, assuring that their material is integrated and revisited throughout the preclinical phase, so that students' understanding and mastery of the material deepens progressively.

The preclinical curriculum consists of the following courses.

HUMAN ANATOMY AND FOUNDATIONS OF LIFE

ACB:8101 Medical Gross Human Anatomy involves complete dissection of the human body. Students learn to identify the human body's components and learn how their structures and locations relate to their functions. They also learn much of the language they will need in order to communicate accurately and specifically with patients and other physicians.

MED:8123 Foundations of Cellular Life covers genetics, embryology, molecular biology, biochemistry, cell biology, and histology. Students learn the molecular events required for cellular life and how cells grow and interact to form the basic tissues of the human body. This course provides the necessary framework students will need in order to begin the mechanisms of health and disease series.

CLINICAL AND PROFESSIONAL SKILLS

The clinical and professional skills (CAPS) strand provides students with the knowledge, skills, and attitudes required for professional development and clinical excellence, including the sense of inquiry and lifelong habits of skill acquisition, self-assessment, and reflective practice. CAPS features developmental learning through increasingly challenging experiences across the curriculum, repeated practice opportunities, observation and feedback, and self-directed learning and reflection. CAPS requires the following three courses.

MED:8121 Clinical and Professional Skills I introduces students to concepts of clinical reasoning, communication, physical examination, and evidence-based clinical practice as well as the principles of biomedical ethics. The Longitudinal Clinical Mentor (LCM) program allows early clinical interactions and helps place classroom experiences into the context of patient care. Through interactions with students from other health sciences colleges, M.P.A.S. students begin to explore the interprofessional approach to caring for patients.

MED:8131 Clinical and Professional Skills II reinforces clinical reasoning concepts from MED:8121 and introduces
additional elements of clinical reasoning, which are practiced through interactions with standardized patients and through Longitudinal Clinical Mentor clinical visits. The varied experiences help students gain a deeper appreciation for issues in biomedical ethics. As part of interprofessional education, students focus on the strengths and barriers involved in providing comprehensive interdisciplinary patient care.

MED:8221 Clinical and Professional Skills III develops advanced clinical reasoning skills through focused patient encounters and interactions with special patient populations. Emphasis is on students’ ability to integrate and use concepts from the other curricular strands that are required for cost-conscious, patient-centered, interdisciplinary care.

MECHANISMS OF HEALTH AND DISEASE
The mechanisms of health and disease (MOHD) strand focuses on multisystem mechanisms. MOHD requires the following five courses.

MED:8124 Mechanisms of Health and Disease I covers normal and healthy processes within and among the mechanisms of oxygenation, metabolism, and genetics/development.

MED:8133 Mechanisms of Health and Disease II covers normal and healthy processes within and among the mechanisms of immunology/inflammation, locomotion/integument, and neuropsychiatry.

MED:8134 Mechanisms of Health and Disease III covers abnormalities or disruptions leading to disease within and among the mechanisms of oxygenation, metabolism, and genetics/development.

MED:8223 Mechanisms of Health and Disease IV covers abnormalities or disruptions leading to disease within and among the mechanisms of immunology/inflammation, locomotion/integument, and neuropsychiatry.

MED:8224 Mechanisms of Health and Disease Keystone provides a transition from classroom instruction in MED:8124, MED:8133, MED:8134, and MED:8223 to clinical practice. Foundational information from those courses is approached from the perspective of common clinical encounters. Students make diagnostic and management decisions about common important clinical problems using the foundational knowledge they gained from those courses.

MEDICINE AND SOCIETY
The medicine and society (MAS) strand teaches students about disease prevention, health promotion services, public health, epidemiology, health services organizations and delivery, and community dimensions of medical practice. MAS requires the following three courses.

MED:8122 Medicine and Society I introduces social determinants of health. Students investigate the influence and impact of culture and the community on healthcare, learn about community resources, and apply health and risk assessment to individual patients and to themselves.

MED:8132 Medicine and Society II focuses on public health and epidemiology, with attention to screening, global health, and environmental hazards.

MED:8222 Medicine and Society III focuses on health services organization and delivery, with emphasis on community dimensions of medical practice and patient safety.

FOUNDATIONAL CLINICAL EXPERIENCE
The foundational clinical experience consists of a six-week summer session that includes preclinical workshop material in cardiology and radiology. Students complete a two-week introduction to clinical medicine before beginning the clinical rotations. Foundational clinical experience requires the following five courses.

PA:8212 Fundamentals of EKG and ACLS for Physician Assistant Students 2 s.h.
PA:8213 Fundamentals of Radiology for Physician Assistant Students 1 s.h.
PA:8214 Fundamentals of Clinical Laboratory Medicine for Physician Assistant Students 1 s.h.
PA:8301 Seminar for Physician Assistant Students 1 s.h.
PA:8302 Physician Assistant Professional and Clinical Skills 1 s.h.

Clinical Curriculum
The program's second phase concentrates on clinical education. Students complete four weeks of preclinical workshops and rotations and a 36-week core of required primary care clinical rotations, including general internal medicine, surgery, family medicine, pediatrics, emergency medicine, gynecology, and psychiatry. Students then select eight weeks of electives, which may include rotations such as geriatrics, cardiology, dermatology, and orthopaedics.

The primary care clinical rotations are designed to provide instruction and experience in caring for patients in a way that enables students to integrate the knowledge, skills, behaviors, and attitudes they learned in the program's didactic phase. Clinical training is provided at University of Iowa Hospitals and Clinics, the Iowa City Veterans Affairs Medical Center, the Veterans Affairs Central Iowa Health Care System and Broadlawns Medical Center in Des Moines, and other affiliated hospitals throughout Iowa. In elective rotations, students gain additional clinical experience through placement with selected preceptors involved in office-based practices, typically in medically underserved rural areas.

Students also complete a master's degree project as part of the clinical curriculum.

REQUIRED CLINICAL ROTATIONS
The following clinical rotations are required.

PA:8304 Emergency Medicine for Physician Assistant Students 4 s.h.
PA:8305 Gynecology for Physician Assistant Students 4 s.h.
PA:8306 Family Practice I for Physician Assistant Students 4 s.h.
PA:8307 Family Practice II for Physician Assistant Students 4 s.h.
PA:8308 General Surgery for Physician Assistant Students 6 s.h.
PA:8309 Internal Medicine for Physician Assistant Students 6 s.h.
PA:8310 Pediatrics for Physician Assistant Students 4 s.h.
**Students select elective clinical rotations from these.**

- **PA:8311 Psychiatry for Physician Assistant Students**
- **PA:8320 Dermatology Elective for Physician Assistant Students**
- **PA:8321 Neurology Elective for Physician Assistant Students**
- **PA:8322 Obstetrics for Physician Assistant Students**
- **PA:8323 Ophthalmology Elective for Physician Assistant Students**
- **PA:8324 Otolaryngology Elective for Physician Assistant Students**
- **PA:8325 Pediatric Elective for Physician Assistant Students**
- **PA:8326 Radiology Elective for Physician Assistant Students**
- **PA:8327 Pediatric Elective (Bone Marrow Transplant) for Physician Assistant Students**
- **PA:8328 Pediatric (Cardiology) Elective for Physician Assistant Students**
- **PA:8329 Psychiatry Elective for Physician Assistant Students**
- **PA:8330 Surgery Elective for Physician Assistant Students**
- **PA:8331 Surgery Elective (Transplant/Organ Retrieval) for Physician Assistant Students**
- **PA:8332 Surgery Elective (Burn Unit) for Physician Assistant Students**
- **PA:8333 Surgery Elective (Cardiac Surgery) for Physician Assistant Students**
- **PA:8334 Orthopedics Elective for Physician Assistant Students**
- **PA:8335 Internal Medicine Elective for Physician Assistant Students**
- **PA:8336 Internal Medicine (Cardiology) Elective for Physician Assistant Students**
- **PA:8337 Internal Medicine (EKG) Elective for Physician Assistant Students**
- **PA:8338 Internal Medicine (Gastroenterology) Elective for Physician Assistant Students**
- **PA:8339 Internal Medicine (Oncology) Elective for Physician Assistant Students**
- **PA:8340 Internal Medicine (Geriatrics) Elective for Physician Assistant Students**
- **PA:8341 Internal Medicine (Pulmonary) Elective for Physician Assistant Students**
- **PA:8342 Internal Medicine (Hospice) Elective for Physician Assistant Students**
- **PA:8343 Internal Medicine (Infectious Disease) Elective for Physician Assistant Students**
- **PA:8345 Urology Elective for Physician Assistant Students**
- **PA:8346 Family Practice Elective for Physician Assistant Students**
- **PA:8347 Gynecology Elective (Women's Health) for Physician Assistant Students**
- **PA:8348 Migrant Health Elective for Physician Assistant Students**
- **PA:8349 Occupational Medicine Elective for Physician Assistant Students**
- **PA:8350 Pediatrics (Neonatology) Elective for Physician Assistant Students**
- **PA:8351 Internal Medicine (Rheumatology) for Physician Assistant Students**
- **PA:8352 Medical Intensive Care for Physician Assistant Students**
- **PA:8353 International Medicine for Physician Assistant Students**
- **PA:8354 Interventional Radiology for Physician Assistant Students**
- **PA:8355 Gynecologic Oncology Elective for Physician Assistant Students**

**Admission**

Applicants must meet the admission requirements of the Graduate College; see the Manual of Rules and Regulations of the Graduate College.

Applicants must be citizens or permanent residents of the United States. They must have taken the Graduate Record Examination (GRE) General Test or the Medical College Admission Test (MCAT) no more than 10 years before they apply. Applicants whose first language is not English and who have not earned a master's or doctoral degree from an accredited U.S. institution must score at least 93 (Internet-based) with a speaking score of at least 26 on the Test of English as a Foreign Language (TOEFL). Scores must be sent to the Department of Physician Assistant Studies and Services by the Educational Testing Service.

Applicants must hold a bachelor's degree from an accredited institution in the United States and have a cumulative g.p.a. and a science g.p.a. of at least 3.00 on a 4.00 scale or a g.p.a. of at least 3.00 on their last 40 s.h. of college-level science course work. They must have completed preparatory science courses in organic and inorganic chemistry, introductory animal biology or zoology, and general statistics or biostatistics. They also must have completed an upper-level course in human or animal physiology (lower-level combined anatomy/physiology courses do not satisfy this requirement); a minimum of three upper-level natural science courses such as cell biology, cell physiology, endocrinology, genetics, histology, immunology, microbiology, molecular biology, neurobiology, and/or related disciplines; and an introductory biochemistry course (combined organic/biochemistry courses do not satisfy this requirement).

Applicants must have at least 1,000 clock hours of hands-on, direct patient health care experience.

The admissions committee gives special attention to applicants' performance in science courses. Some successful applicants have had a g.p.a. of at least 3.70, both cumulative and in science; up to 141 s.h. of college credit, including at least 81 s.h. in the sciences; and more than 3,000 hours of clinical experience.

Satisfaction of the basic admission requirements does not ensure acceptance to the program. The admissions committee selects the applicants it considers best qualified. Previous health care experience involving direct patient contact is preferred. The committee requests interviews with the most qualified applicants.

Applications are accepted from April 16 to November 1 for entry the following August. Applicants must apply...
Courses

PA:8209 Introduction to Medical History and Physical Examination for Physician Assistant Students
Development of skills vital to taking a comprehensive medical history, psychomotor skills, and physical examination techniques necessary for conducting a comprehensive physical exam.

PA:8210 Clinical Decision Making I
Review of basic concepts of research design and statistics as they apply to medical research literature; formation of a basis for sound, evidence-based, clinical decision making.

PA:8211 Clinical Decision Making II
Core concepts of evidence-based medicine; development of the knowledge and practical skills to search the medical literature for answers to clinical questions and critically appraise the evidence found.

PA:8212 Fundamentals of EKG and ACLS for Physician Assistant Students
Theory and practice with basic analysis of EKG strips and interpretation, including rhythm disturbances; completion of American Heart Association's Advanced Cardiac Life Support (ACLS) program.

PA:8213 Fundamentals of Radiology for Physician Assistant Students
Theory and practice for interpretation of radiographs including general radiology, body, chest, musculoskeletal, pediatrics, and neurology. Requirements: enrollment in physician assistant studies and services.

PA:8214 Fundamentals of Clinical Laboratory Medicine for Physician Assistant Students
Theory and practice of selected clinical laboratory techniques and procedures; emphasis on effective utilization of clinical laboratory in diagnosis and management of disease states. Requirements: enrollment in physician assistant studies and services.

PA:8300 Physician Assistant Clinical Second Year

PA:8301 Seminar for Physician Assistant Students

PA:8302 Physician Assistant Professional and Clinical Skills
Hands-on experience and activities; suturing, injections, prescription and order writing, medical records, patient confidentiality, Iowa Law governing physician assistant practice, motivational interviewing, toddler and disability exams.

PA:8303 Physician Assistant Senior Capstone
Demonstration of strong clinical knowledge base and proficiency in basic clinical problem solving; focus on student's ability to think logically and critically, integrate and synthesize knowledge, access evidence-based medical resources, document patient care appropriately, apply clinical knowledge, and demonstrate professional behavior. Requirements: enrollment in physician assistant studies and services.

PA:8304 Emergency Medicine for Physician Assistant Students
Obtaining and recording pertinent historical data, obtaining indicated laboratory studies, assessing the results, arriving at a diagnosis, formulating a treatment plan, implementing appropriate therapy.

PA:8305 Gynecology for Physician Assistant Students
Opportunity to develop proficiency in history and physical exams of gynecological patients; outpatient, family planning, gynecological cancer, concepts of diagnostic techniques and therapy.

PA:8306 Family Practice I for Physician Assistant Students
Opportunity to participate in delivery of ambulatory primary care; at a different site from PA:8306.

PA:8307 Family Practice II for Physician Assistant Students

PA:8308 General Surgery for Physician Assistant Students
Preparation for work as an assistant to the generalist; outpatient and inpatient surgical services, including surgical procedures and management of postoperative course.

PA:8309 Internal Medicine for Physician Assistant Students
Eliciting a medical history, doing a pertinent physical exam, obtaining indicated lab studies, assessment of results, formulation of management plan and implementation of appropriate therapy for common internal medicine problems.

PA:8310 Pediatrics for Physician Assistant Students

Expenses

In addition to University of Iowa tuition and fees, students in the Department of Physician Assistant Studies and Services must purchase a laptop computer (specifications are given), their medical uniforms, and diagnostic equipment, an expense of approximately $4,000. Microscopes are not required.

Professional issues that affect the physician assistant's practice of medicine.

PA:8302 Physician Assistant Professional and Clinical Skills
Hands-on experience and activities; suturing, injections, prescription and order writing, medical records, patient confidentiality, Iowa Law governing physician assistant practice, motivational interviewing, toddler and disability exams.

PA:8303 Physician Assistant Senior Capstone
Demonstration of strong clinical knowledge base and proficiency in basic clinical problem solving; focus on student's ability to think logically and critically, integrate and synthesize knowledge, access evidence-based medical resources, document patient care appropriately, apply clinical knowledge, and demonstrate professional behavior. Requirements: enrollment in physician assistant studies and services.

PA:8304 Emergency Medicine for Physician Assistant Students
Obtaining and recording pertinent historical data, obtaining indicated laboratory studies, assessing the results, arriving at a diagnosis, formulating a treatment plan, implementing appropriate therapy.

PA:8305 Gynecology for Physician Assistant Students
Opportunity to develop proficiency in history and physical exams of gynecological patients; outpatient, family planning, gynecological cancer, concepts of diagnostic techniques and therapy.

PA:8306 Family Practice I for Physician Assistant Students
Opportunity to participate in delivery of ambulatory primary care; at a different site from PA:8306.

PA:8307 Family Practice II for Physician Assistant Students

PA:8308 General Surgery for Physician Assistant Students
Preparation for work as an assistant to the generalist; outpatient and inpatient surgical services, including surgical procedures and management of postoperative course.

PA:8309 Internal Medicine for Physician Assistant Students
Eliciting a medical history, doing a pertinent physical exam, obtaining indicated lab studies, assessment of results, formulation of management plan and implementation of appropriate therapy for common internal medicine problems.

PA:8310 Pediatrics for Physician Assistant Students

through the Central Application Service for Physician Assistants (CASPA). Application materials include three letters of recommendation, with one from an academic instructor and one from a health care supervisor; GRE or MCAT scores; and transcripts. The majority of prerequisite course requirements must be completed by the November 1 application deadline. All materials must be received by CASPA by the November 1 deadline.
Knowledge and skills required for providing appropriate medical care to infants, children, and adolescents; initiation and promotion of interpersonal relationships.

**PA:8311 Psychiatry for Physician Assistant Students**  
4 s.h.  
Training in history and physical exams of psychiatry patients, including individual and family therapy, vocational testing and guidance, development of interviewing skills.

**PA:8312 Long-Term Care for Physician Assistant Students**  
arr.  
Development of clinical knowledge and skill in diagnosing, treating, and performing procedures for patients of long-term care settings; knowledge of relevant conditions.

**PA:8320 Dermatology Elective for Physician Assistant Students**  
arr.  
Recognizing dermatologic diseases and disorders, instituting appropriate management of patients with dermatologic problems.

**PA:8321 Neurology Elective for Physician Assistant Students**  
arr.  
Performing general and neurological exams, establishing diagnosis, recommending lab studies, instituting appropriate management of common neurological diseases and disorders, recognizing the need for urgent treatment.

**PA:8322 Obstetrics for Physician Assistant Students**  
arr.  
Proficiency in physical exam of OB patients; applying concepts of diagnostic techniques and therapy; following patients' course, including labor, delivery, and postpartum care.

**PA:8323 Ophthalmology Elective for Physician Assistant Students**  
arr.  
Proficiency in recognizing ophthalmology problems; how to institute appropriate management of these conditions.

**PA:8324 Otalaryngology Elective for Physician Assistant Students**  
arr.  
Proficiency in recognizing otalaryngology problems; how to institute appropriate management of these conditions; opportunity for involvement in varied surgical procedures.

**PA:8325 Pediatric Elective for Physician Assistant Students**  
arr.  
Experience working with children and adolescents.

**PA:8326 Radiology Elective for Physician Assistant Students**  
arr.  
Proficiency in systematic evaluation of normal and abnormal routine radiologic examinations; listing indications for special exam procedures, including details of prepping the patient.

**PA:8327 Pediatric Elective (Bone Marrow Transplant) for Physician Assistant Students**  
arr.  
Basic clinical knowledge and skills for diagnosis, treatment, and management of pre- and post-bone-marrow transplant patients.

**PA:8328 Pediatric (Cardiology) Elective for Physician Assistant Students**  
arr.  
Cardiovascular assessment and problem management of pediatric patients; experience with a range of acute, chronic, common, and rare cardiology diseases.

**PA:8329 Psychiatry Elective for Physician Assistant Students**  
arr.  
Training in evaluation and treatment of psychiatry patients.

**PA:8330 Surgery Elective for Physician Assistant Students**  
arr.  
Experience in a wide range of surgical problems, procedures, and treatments, including diagnosis, care and treatment, and postoperative courses of surgical patients.

**PA:8331 Surgery Elective (Transplant/Organ Retrieval) for Physician Assistant Students**  
arr.  
Extensive experience in care of patients with end-stage organ failure; evaluation of potential transplant candidates, participation in surgical procedures on transplant service.

**PA:8332 Surgery Elective (Burn Unit) for Physician Assistant Students**  
arr.  
Involvement in care on burn unit and in operating room; skills in burn debridement, grafting techniques, skin storage techniques, dressing changes, tub baths, and physical therapy procedures.

**PA:8333 Surgery Elective (Cardiac Surgery) for Physician Assistant Students**  
arr.  
Development of technical skills in operating room; essentials of preoperative evaluation and postoperative management of cardiac surgical patient.

**PA:8334 Orthopedics Elective for Physician Assistant Students**  
arr.  
Recognition of varied orthopedic problems and treatments; musculoskeletal diseases and disorders, both emergencies and common conditions, and how to establish appropriate management.

**PA:8335 Internal Medicine Elective for Physician Assistant Students**  
arr.  
Training in varied internal medicine problems; recognition, appropriate treatment.

**PA:8336 Internal Medicine (Cardiology) Elective for Physician Assistant Students**  
arr.  
Cardiovascular assessment and problem management; experience with wide range of acute, chronic, common, and rare diseases.

**PA:8337 Internal Medicine (EKG) Elective for Physician Assistant Students**  
arr.  
Experience reading electrocardiograms, interpreting cardiac arrhythmias, performing and evaluating EKG stress tests.

**PA:8338 Internal Medicine (Gastroenterology) Elective for Physician Assistant Students**
Experience with a wide range of gastrointestinal pathology; history and physical exams of gastrointestinal diagnostic procedures, follow-up care of patients through outpatient clinics.

**PA:8339 Internal Medicine (Oncology) Elective for Physician Assistant Students**
Experience to develop diagnostic skills in clinical oncology and gain familiarity with methods of staging common cancers; assistance in therapy and outpatient management of cancer patients.

**PA:8340 Internal Medicine (Geriatrics) Elective for Physician Assistant Students**
Familiarity with broad spectrum of medical conditions among the elderly; experience in history and physical exams, diagnosis of geriatric patients along with follow-up visits.

**PA:8341 Internal Medicine (Pulmonary) Elective for Physician Assistant Students**
Development of basic clinical knowledge and skills for diagnosis, treatment, and management of pulmonary diseases.

**PA:8342 Internal Medicine (Hospice) Elective for Physician Assistant Students**
Work on a hospice care team performing evaluation, treatment, and education of patients with terminal illnesses; dealing with the prospect of death.

**PA:8343 Internal Medicine (Infectious Disease) Elective for Physician Assistant Students**
Development of basic clinical knowledge and skills for diagnoses, treatment, and management of infectious diseases.

**PA:8345 Urology Elective for Physician Assistant Students**
Proficiency in managing patients with urologic conditions; skill in taking a urologic history, performing physical exams, interpreting laboratory studies and data.

**PA:8346 Family Practice Elective for Physician Assistant Students**
Proficiency in delivering ambulatory primary care.

**PA:8347 Gynecology Elective (Women's Health) for Physician Assistant Students**
Experience in annual gynecologic exams, PAP screening, gynecology problems, contraception issues, STD screening and counseling, common gynecologic procedures.

**PA:8348 Migrant Health Elective for Physician Assistant Students**
Basic clinical knowledge and skills for diagnosis, treatment, and prevention of diseases, injuries, and conditions related to environmental exposure in migrant worker populations.

**PA:8349 Occupational Medicine Elective for Physician Assistant Students**
Basic clinical knowledge and skills for diagnosis, treatment, and prevention of work-related diseases, injuries, and conditions related to environmental exposure.

**PA:8350 Pediatrics (Neonatology) Elective for Physician Assistant Students**
Basic clinical knowledge and skill for diagnosis, treatment, and management of critically ill infants.

**PA:8351 Internal Medicine (Rheumatology) Elective for Physician Assistant Students**
Basic clinical knowledge and skills for diagnosis, treatment, and management of rheumatologic diseases.

**PA:8352 Medical Intensive Care for Physician Assistant Students**
Basic clinical knowledge and skills for diagnosis, treatment, and management of critically ill patients.

**PA:8353 International Medicine for Physician Assistant Students**
Basic clinical knowledge and skills for diagnosis, treatment, and prevention of diseases, injuries, and conditions relevant to international medicine.

**PA:8354 Interventional Radiology for Physician Assistant Students**
Basic clinical knowledge and skills for diagnosis and treatment of conditions requiring interventional therapy.

**PA:8355 Gynecologic Oncology Elective for Physician Assistant Students**
Experience developing diagnostic skills in clinical gynecologic oncology, learning methods of staging specific cancers; and assisting in therapy and outpatient management of patients with varied cancers.

**PA:8356 Wilderness Medicine for Physician Assistant Students**
Four-week emergency medicine elective taken in conjunction with Carver College of Medicine; mix of didactic and experiential learning; ten-day trip to Colorado to learn about hypothermia, altitude medicine, search and rescue, field evaluation, treatment and evacuation of common back country injuries; lectures and simulations.