

# PHYSICIAN ASSISTANT (PA)

## PA-309 Clinical Laboratory Medicine I (2 credits)

This course explores common laboratory procedures employed in the evaluation of disease processes. Students develop proficiency in understanding such routine procedures as a CBC, urinalysis, gram stains and cultures. Students develop skills in interpreting clinical laboratory values in relation to disease, therapy and prognosis.

Course Types: Problem-Solving; Thinking Process

Prerequisite(s): Take BIO-208 CHE-102

Corequisite(s): Take PA-303 PA-335 PA-312

## PA-310 Clinical Laboratory Medicine II (2 credits)

This course is a continuance of PA-309.

Course Types: Problem-Solving; Thinking Process

Prerequisite(s): Take PA-309

Corequisite(s): Take PA-304 PA-311 PA-313 PA-336

## PA-311 Clinical Skills (3 credits)

Proper methods of performing various clinical procedures such as intravenous catheter insertion, intramuscular injections, passing nasogastric tubes, applying casts and drawing blood will be covered in this course.

Course Types: Problem-Solving; Thinking Process

Prerequisite(s): Take BIO-208 and BIO-339 or BIO-639

Corequisite(s): Take PA-304 PA-310 PA-312 PA-336

## PA-312L Physical Diag Lab (0 credits)

Course Types: Problem-Solving; Thinking Process

Corequisite(s): Take PA-312

## PA-313L Physical Diagnosis Lab (0 credits)

Course Types: Problem-Solving; Thinking Process

## PA-389 Elective Pract I (3 credits)

Study Abroad Special Topics

## PA-400 Clinical Rotations (1-12 credits)

### PA-401BR Internal Medicine (3 credits)

This course provides the foundation for clinical evaluation and treatment. Training may occur in inpatient internal medicine in hospitals or outpatient internal medicine. The rotation will expose the student to adult populations and their medical problems. The student will learn clinical presentation of general medical problems, evaluation, therapeutic intervention and methods of documentation.

### PA-401CR Family Medicine (3 credits)

This clinical rotation course exposes students to patients from all age groups, from pediatrics to geriatrics. Students will learn the clinical presentation of general medical problems, evaluation, therapeutic intervention and methods of documentation in a family practice setting.

### PA-402R General Surgery (3 credits)

During the general surgery rotation, students will learn management of surgical patients in the hospital and in ambulatory settings including presentation and workup of common surgical problems, as well as surgical interventions, and in-hospital care of the pre-and postoperative patient.

### PA-403R General Pediatrics (5 credits)

This clinical rotation provides the opportunity to assess medical problems that require both inpatient and outpatient management of children. Students will get practical clinical experience in the outpatient setting managing routine childhood illnesses and health maintenance, and with the medical team in the hospital at the time of delivery assessing, the newborn and caring for children with more severe medical problems. Documentation in the medical record will augment skills previously acquired for data collection. Students will come to understand the influence that family interactions can have on the course of the patient's development, wellbeing and illness.

### PA-404R Obstetrics and Gynecology (3 credits)

This OB/GYN clinical rotations purpose is to provide practical clinical experience for the evaluation and treatment of women. Experience will be gained in the areas of general women's health; family planning, pre-, intra- and postpartum care; as well as routine gynecologic care for sexually transmitted diseases, dysmenorrhea and menopausal health. Students will come to understand the effects that sexual activity, childbearing and menopause have on a woman's psychological, social and medical well-being.

### PA-405R Psychiatry (3 credits)

The purpose of the psychiatry clinical rotation is to provide the student with clinical experience in the varied presentations of mental illness. The student will have an opportunity to evaluate, identify and learn management of both acute and non-acute psychiatric patients.

### PA-406R Emergency Medicine (3 credits)

The Emergency Medicine clinical rotations purpose is to provide students practical clinical experience in the care of acute medical emergencies. Students will develop an understanding of the concept of triage in an emergency situation where care is provided to the development of physical examination skills, and the art of developing rapport with patients. By the end of the course, students will have received instruction and training in basic communication skills and how to conduct a medical interview, as well as future care.

### PA-407 Geriatrics (1 credits)

The two-week course will take place in a freestanding, long-term care facility or inpatient skilled nursing facility and provide students with experience addressing the special needs of this patient population. Prerequisite: Successful completion of all third-year courses.

### PA-408 Orthopaedics (3 credits)

The four-week orthopedics rotation will give students the opportunity to observe treatment of common musculoskeletal complaints. The rotation will combine clinical experience in an ambulatory practice setting with following orthopedic patients in the hospital.

**PA-412B Senior Seminar Clinical Enrichment (0 credits)**

This is a required companion course to clinical rotations and is offered each semester throughout the clinical phase of the program. The course encompasses clinical enrichment content presented during required monthly Senior Seminar Days, as well as required online clinical enrichment activities such as board review questions, case scenarios, and weekly quizzes, which are made available to students throughout the clinical phase.

**PA-413 Senior Seminar Clinical Enrichment B (0 credits)**

This is a required companion course to clinical rotations and is offered each semester throughout the clinical phase of the program. The course encompasses clinical enrichment content presented during required monthly Senior Seminar Days, as well as required online clinical enrichment activities such as board review questions, case scenarios, and weekly quizzes, which are made available to students throughout the clinical phase.

**PA-500 Professional Issues (1 credits)**

This course provides a historical perspective of the physician assistant profession, as well as content related to current trends and issues. The course will include discussion of the importance of professional responsibility in the healthcare role, understanding the relationship between a PA and other healthcare professionals, and understanding of the AAPA Code of Ethics and legal aspects of PA practice. Information on professional organizations, employment considerations, medical ethics and professional liability will also be discussed.

Corequisite(s): For PA students: Take PA-504, PA-604, PA-529 and successful completion of all prior coursework

**PA-501R Elective Clinical Rotation I (3 credits)**

Elective Clinical Rotation I offers an opportunity for physician assistant students to explore any area of medicine, subspecialty areas of medicine not covered in the current curriculum, spend more clinical time in primary care, or work with a physician that has been identified as a potential employer. Elective Clinical Rotation I will allow students the flexibility to explore an area of medicine which the student has an interest in or an area of medicine in which the student believes they are deficient in. In addition, through course requirements, the student will further develop their writing skills and clinical acumen by writing an H&P about an interesting patient presentation from their elective rotation.

**PA-502R Elective Clinical Rotation II (3 credits)**

Elective Clinical Rotation II offers an opportunity for physician assistant students to explore any area of medicine, subspecialty areas of medicine not covered in the current curriculum, spend more clinical time in primary care, or work with a physician that has been identified as a potential employer. Elective Clinical Rotation II will allow students the flexibility to explore an area of medicine which the student has an interest in or an area of medicine in which the student believes they are deficient in. In addition, through course requirements, the student will further develop their writing skills and clinical acumen by writing an H&P about an interesting patient presentation from their elective rotation.

**PA-503 Primary Medicine Core Practicum (6 credits)**

Primary care, an eight-week rotation provides the opportunity to refine the foundation in clinical evaluation and treatment and to establish patient education and community education skills. This will occur in a setting, which provides continuity of patient care and the opportunity to establish an ongoing preceptor/P.A. relationship. Training occurs over an eight-week period at a single clinical site. Open to physician assistant students only.

**PA-504 Graduate Seminar (1 credits)**

Graduate Seminar offers an opportunity for physician assistant students to receive instruction in professional practice, community service, patient education, medical malpractice legislation, recognizing an impaired medical provider and other issues pertinent to their development as health care professionals. The students will also have an opportunity to participate in clinical enrichment lectures and workshops, focusing on particular issues pertaining to medical management of the critically ill inpatient.

Corequisite(s): For PA students: Take PA-513, PA-500, PA-529, PA-604 and successful completion of all prior coursework.

**PA-505 Graduate Seminar II (1 credits)**

Graduate Seminar II offers an opportunity for physician assistant students to receive instruction in areas of professional practice, to receive additional enrichment in areas of particular clinical interest to the student, and to address other issues pertinent to their development as health care professionals.

**PA-506 Clinical Laboratory Medicine I (1 credits)**

This course will provide a comprehensive study of laboratory data with emphasis on the relation to diseases of the organ systems. This material in this course will align with all other didactic year courses (BIO-639, BIO-607, PA-520, and PA-510) so that topics presented will be sequenced to develop a comprehensive understanding.

Corequisite(s): For PA students: Take BIO-639, BIO-607, PA-520, PA-510 and successful completion of all pre-professional phase coursework.

**PA-507 Clinical Laboratory Medicine II (2 credits)**

This course will provide a comprehensive study of laboratory data with emphasis on the relation to diseases of the organ systems. This material in this course will align with all other didactic year courses (PA-516, PA-518, PA-521, and PA-523) so that topics presented will be sequenced to develop a comprehensive understanding.

Corequisite(s): For PA students: Take PA-516, PA-518, PA-521, PA-523 and successful completion of all pre-professional phase coursework

**PA-508 Clinical Laboratory Medicine III (2 credits)**

A comprehensive study of laboratory data with emphasis on the relation to diseases of the organ systems. This material in this course will align with all other didactic year courses (PA-517, PA-519, PA-522, PA-524, and PA-525) so that topics presented will be sequenced to develop a comprehensive understanding.

Corequisite(s): For PA students: Take PA-517, PA-519, PA-522, PA-524, PA-525 and successful completion of all pre-professional phase coursework.

**PA-509 Neuroanatomy (3 credits)**

This course is an in-depth training of the student to the human nervous system. Topics include embryology, neurophysiology, neuroanatomy, pathology, psychiatry and pharmacology. The accompanying lab will reinforce topics covered in the class, and include review of neurologic, sensory and psychiatric physical exam.

**PA-510 Behavioral Medicine (2 credits)**

This course focuses on understanding human behavior in health and illness. Health, illness and sick role behaviors, psychosocial factors in the etiology of illness, patient compliance with prescribed therapeutic regimens, use of health behavior models in patient education, health maintenance, and disease prevention and sexuality will be discussed.

Course Types: Cultural Competence; Culture Comp/Glob Society

Corequisite(s): For PA students: Take BIO-639, BIO-607, PA-506, PA-520 and successful completion of all pre-professional phase coursework.

**PA-511 Medical Microbiology (3 credits)**

Medical micro-modification will emphasize diagnosis, disease progression and therapeutics in patients with infectious diseases. Building upon the clinical experiences of the PA student during their clinical rotation, this course will focus on recognizing specific infectious diseases and their causative organisms. The student will be expected to develop and understanding of disease progression as it relates to the pathophysiology of infection and treatment with this context in mind, the course will develop the skills of the PA student to render a differential diagnosis, formulate a diagnostic workup and recommend appropriate treatment for the disease state.

**PA-512 Alternative Medicine (3 credits)**

This class will offer insight into the modalities of alternative medicine. Today's health care providers need to be proficient in alternative therapy to Western medicine. Much of the population is looking into the alternative treatment methods available for a variety of medical problems. This course will review in detail the many different options that are available to the patient who is not satisfied with Western modalities or the patient who would like to try a different approach to treatment. The combination of both treatment methods can be very successful in treating medical problems. This course will review the wide array of available modalities. The course will also include lectures from alternative medicine practitioners.

**PA-513 Senior Seminar Clinical Enrichment (1 credits)**

This is a required companion course to clinical rotations and is offered each semester throughout the clinical phase of the program. The course encompasses clinical enrichment content presented during required monthly Senior Seminar Days, as well as required online clinical enrichment activities such as board review questions, case scenarios, and weekly quizzes, which are made available to students throughout the clinical phase.

**PA-516 Clinical Medicine I (4 credits)**

This course is a comprehensive study of diseases with emphasis on etiology, pathophysiology, signs and symptoms, diagnostic procedures, critical review of medical literature, preventive care and therapeutic measures involved in treating medical problems. Topics will be presented through demonstrations, discussions and clinical conferences as well as lectures by physicians, physician assistants and other appropriate health professionals. This course will include discrete blocks on major organ systems and special populations. It is closely integrated with the pharmacology, clinical skills and physical diagnosis courses.

Course Types: Problem-Solving; Thinking Process

Prerequisite(s): For PA students: Successful completion of all pre-professional phase coursework; Successful completion of BIO-639, BIO-607

Corequisite(s): Take PA-507, PA-518, PA-521, PA-523, PA-526

**PA-517 Clinical Medicine II (4 credits)**

A comprehensive study of diseases of the organ systems with emphasis on pathology, signs and symptoms, diagnostic procedures, and therapeutic measures. This material in this course will align with all other didactic year courses (PA-336, PA-310, PA-313, PA-313 lab and PA-311) so that topics presented will be sequenced to develop a comprehensive understanding

Course Types: Problem-Solving; Thinking Process

Prerequisite(s): Take PA-516

Corequisite(s): Take PA-508, PA-519, PA-522, PA-524, PA-525, PA-527

**PA-518 Physical Diagnosis I (3 credits)**

Students will learn how to obtain a complete a medical history, how to perform a complete physical examination, and how to properly record each finding, diagnosis, and treatment plan (including determination of follow-up appointments, health prevention/maintenance, patient counseling and patient education skills). This course includes discussion on normal vs. abnormal physical exam findings, reviews anatomy, physiology and pathophysiology of common medical conditions. A weekly laboratory session will discuss and demonstrate physical examination skills and allow students to practice history and physical examination skills. Case study presentations will also aide the student's ability to learn differential diagnosis, physical examination, and assessment.

Course Types: Problem-Solving; Thinking Process

Corequisite(s): Take PA-507, PA-516, PA-521, PA-523, PA-526

**PA-518L Physical Diagnosis I Lab (2 credits)**

Students will learn how to obtain a complete a medical history, how to perform a complete physical examination, and how to properly record each finding, diagnosis, and treatment plan (including determination of follow-up appointments, health prevention/maintenance, patient counseling and patient education skills). This course includes discussion on normal vs. abnormal physical exam findings, reviews anatomy, physiology and pathophysiology of common medical conditions. A weekly laboratory session will discuss and demonstrate physical examination skills and allow students to practice history and physical examination skills. Case study presentations will also aide the student's ability to learn differential diagnosis, physical examination, and assessment

Corequisite(s): Take PA-507, PA-516, PA-518, PA-521, PA-523, PA-526

**PA-519 Physical Diagnosis II (3 credits)**

This course is a continuation of concepts taught in PA-312 and PA-312 laboratory. Students will continue to learn how to obtain a complete a medical history, how to perform a complete physical examination, and how to properly record each finding, diagnosis, and treatment plan (including determination of follow-up appointments, health prevention/maintenance, patient counseling and patient education skills). This course includes discussion on normal vs. abnormal physical exam findings, reviews anatomy, physiology and pathophysiology of common medical conditions. A weekly laboratory session will discuss and demonstrate physical examination skills and allow students to practice history and physical examination skills. Case study presentations will also aide your ability to learn differential diagnosis, physical examination, and assessment.

Course Types: Problem-Solving; Thinking Process

Prerequisite(s): Take PA-518

Corequisite(s): Take PA-508, PA-517, PA-519L, PA-522, PA-524, PA-525, PA-527

**PA-519L Physical Diagnosis II Lab (2 credits)**

This course is a continuation of concepts taught in PA-518 and PA-518 laboratory. Students will continue to learn how to obtain a complete a medical history, how to perform a complete physical examination, and how to properly record each finding, diagnosis, and treatment plan (including determination of follow-up appointments, health prevention/maintenance, patient counseling and patient education skills). This course includes discussion on normal vs. abnormal physical exam findings, reviews anatomy, physiology and pathophysiology of common medical conditions. A weekly laboratory session will discuss and demonstrate physical examination skills and allow students to practice history and physical examination skills. Case study presentations will also aide your ability to learn differential diagnosis, physical examination, and assessment.

Prerequisite(s): Take PA-518L

Corequisite(s): Take PA-508, PA-517, PA-519, PA-522, PA-524, PA-525, PA-527

**PA-520 Pre-Pharmacology for PA (1 credits)**

This 1-credit introductory course offers Physician Assistant (PA) students a concise overview of essential pharmacological principles. It focuses on the basic mechanisms of drug action, including pharmacokinetics (how drugs are absorbed, distributed, metabolized, and eliminated) and pharmacodynamics (how drugs interact with the body to produce therapeutic effects). The course introduces major drug classes used in the treatment of common conditions such as hypertension, diabetes, infections, and pain management.

Corequisite(s): For PA students: Take BIO-639, BIO-607, PA-506, PA-510 and successful completion of all pre-professional phase coursework.

**PA-521 Pharmacology I (3 credits)**

Pharmacology is the study of the action of chemical substances on biological systems. This course is primarily concerned with drugs and other chemicals that have actions significant to the health and well-being of patients across the lifespan - those substances which have important roles in the prevention, alleviation, or cure of the diseases of human beings.

Course Types: Problem-Solving; Thinking Process

Corequisite(s): Take PA-507, PA-516, PA-518, PA-518L, PA-523, PA-526 and successful completion of the pre-professional phase of PA curriculum.

**PA-522 Pharmacology II (3 credits)**

Pharmacology is the study of the action of chemical substances on biological systems. This course is primarily concerned with drugs and other chemicals that have actions significant to the health and well-being of man across the lifespan - those substances which have important roles in the prevention, alleviation, or cure of the diseases of human beings. This course includes topics such as drug-receptor interactions, pharmacokinetic study of absorption, distribution, metabolism, and excretion of drugs, autonomic nervous system function in relationship to drug actions, and aspects of drug use for certain disease states, including therapeutic actions, side effects, interactions with foods and other drugs, etc. This course will also discuss PA prescribing authority and requirements as set by the State and Federal Government as they pertain to pharmacotherapeutics. The topic of drug diversion, and as it relates to the prescribing PA will also be covered this semester.

Course Types: Problem-Solving; Thinking Process

Prerequisite(s): Take PA-521

Corequisite(s): Take PA-508, PA-517, PA-519, PA-524, PA-525, PA-527

**PA-523 Clinical Skills I (2 credits)**

A study of the principles and applications of clinical skills pertaining to invasive and non-invasive medical procedures. The course includes a series of lectures and videos on clinical procedures followed by a skills laboratory

Corequisite(s): For PA students: Take PA-516, PA-507, PA-518, PA-518L, PA-521, PA-526 and successful completion of all pre-professional phase coursework.



**PA-524 Clinical Skills II (2 credits)**

A study of the principles and applications of clinical skills pertaining to invasive and non-invasive medical procedures. The course includes a series of lectures and videos on clinical procedures followed by a skills laboratory.

Prerequisite(s): Successful completion of PA-523 and all pre-professional phase coursework.

Corequisite(s): For PA students: Take PA-517, PA-508, PA-519, PA-519L, PA-522, PA-525, and PA-527

**PA-525 Genetics for Physician Assistants (1 credits)**

This online course will explore how the study of clinical genetics is applied to the discipline of medicine. The course will present the concepts of basic genetics, disease transmission and surveillance, genetic testing, genetic counseling, and the legal and ethical issues related to medical genetics. The course will focus on the primary care provider and how genetic conditions are screened for and managed. The course will also review how genetic and environmental factors influence diseases.

Corequisite(s): For PA students: Take PA-517, PA-508, PA-519, PA-519L, PA-522, PA-524, PA-527 and successful completion of all pre-professional phase coursework.

**PA-526 Clinical Assessment and Planning I (1 credits)**

Using problem based learning, this course will provide a comprehensive study of diseases commonly observed in the primary care setting and hospital institutions. The material in this course will integrate curriculum of other professional phase courses so that topics presented will build upon previously achieved student learning to develop a comprehensive understanding.

Corequisite(s): For PA students: Take PA-507, PA-516, PA-518, PA-518L, PA-521, PA-523 and successful completion of all prior coursework.

**PA-527 Clinical Assessment and Planning II (1 credits)**

Using problem based learning, this course will provide a comprehensive study of diseases commonly observed in the primary care setting and hospital institutions. The material in this course will integrate curriculum of other professional phase courses so that topics presented will build upon previously achieved student learning to develop a comprehensive understanding.

Corequisite(s): For PA students: Take PA-508, PA-517, PA-519, PA-519L, PA-522, PA-524, PA-525 and successful completion of all prior coursework

**PA-528 Clinical Assessment and Planning III (2 credits)**

Using problem based learning, this course will provide a comprehensive study of diseases commonly observed in the primary care setting and hospital institutions. The material in this course will integrate curriculum of other professional phase courses so that topics presented will build upon previously achieved student learning to develop a comprehensive understanding.

**PA-529 Clinical Assessment and Planning IV (2 credits)**

Using problem based learning, this course will provide a comprehensive study of diseases commonly observed in the primary care setting and hospital institutions. The material in this course will integrate curriculum of other professional phase courses so that topics presented will build upon previously achieved student learning to develop a comprehensive understanding.

**PA-603 Applied Research Methods (3 credits)**

This course will introduce the graduate-level PA student to critical thinking concepts and methodology when conducting research. Students will develop skills to formulate clinical questions, critically appraise literature, and summarize evidence for its application to patient care. The emphasis will be on synthesizing existing evidence to answer a specific clinical question relevant to PA practice.

**PA-604 Applied Project Seminar I (3 credits)**

During this course, the student completes the first phase of the research project: the research proposal. The PA student is guided through the sequence of developing the research project, completing an outline of objectives for the project and creating a clear vision of the importance of the project. During the second phase of the course, the student completes a literature review applicable to the research topic. The PA student can then proceed to completion of the project in PA 605: Applied Project Seminar II.

Corequisite(s): Take PA-500, PA-504, PA-513, PA-529

**PA-605 Applied Project Seminar II (3 credits)**

During this course the PA graduate student will complete their research project. The student will submit a completed Critical Appraisal Topic with at least four pieces of evidence to answer their research question. The student then defends the project with a presentation at the end of their training.

Corequisite(s): Take PA-513, PA-606, PA-610

**PA-606 Medical Epidemiology (3 credits)**

This online course will explore how the study of epidemiology is applied to the discipline of medicine. The course will review general definitions of epidemiology, disease transmission, measures of outcome of disease (morbidity and mortality) and screening methods to measure disease. In addition, the study of preventative and the therapeutic intervention, through randomized trials, will be explored. The second phase of the course will review study design (ie., case control) and how it is applied to identify cause for disease states. The final phase of the course will review how genetic and environmental factors influence diseases and how molecular biology plays a role in medical epidemiology.

Corequisite(s): Take PA-513, PA-605, PA-610

**PA-610 Summative Review (2 credits)**

PA students receive intensive clinical review and enrichment activities in preparation for the PANCE, complete required PA Department summative assessment, and are provided with an opportunity to learn about areas of the legislation governing malpractice, professional issues pertaining to future employment, and strategies for functioning as a capable and effective member of a health care team. Students will receive instruction in areas of professional practice, address issues pertaining to the certification process for PA's, and receive additional enrichment in selected areas pertaining to medical management of patients.

Corequisite(s): Take PA-513, PA-606, PA-605, PA-610

**PA-611 Internal Medicine (3 credits)**

This course provides the foundation for clinical evaluation and treatment. Training may occur in inpatient internal medicine in hospitals or outpatient internal medicine. The rotation will expose the student to adult populations and their medical problems. The student will learn clinical presentation of general medical problems, evaluation, therapeutic intervention and methods of documentation.

**PA-612 Family Medicine (3 credits)**

This clinical rotation course exposes students to patients from all age groups, from pediatrics to geriatrics. Students will learn the clinical presentation of general medical problems, evaluation, therapeutic intervention and methods of documentation in a family practice setting.

**PA-613 General Surgery (3 credits)**

During the general surgery rotation, students will learn management of surgical patients in the hospital and in ambulatory settings including presentation and workup of common surgical problems, as well as surgical interventions, and in-hospital care of the pre-and postoperative patient.

**PA-614 General Pediatrics (3 credits)**

This clinical rotation provides the opportunity to assess medical problems that require both inpatient and outpatient management of children. Students will get practical clinical experience in the outpatient setting managing routine childhood illnesses and health maintenance, and with the medical team in the hospital at the time of delivery assessing, the newborn and caring for children with more severe medical problems. Documentation in the medical record will augment skills previously acquired for data collection. Students will come to understand the influence that family interactions can have on the course of the patient's development, wellbeing and illness.

**PA-615 Obstetrics and Gynecology (3 credits)**

This OB/GYN clinical rotations purpose is to provide practical clinical experience for the evaluation and treatment of women. Experience will be gained in the areas of general women's health; family planning, pre-, intra- and postpartum care; as well as routine gynecologic care for sexually transmitted diseases, dysmenorrhea and menopausal health. Students will come to understand the effects that sexual activity, childbearing and menopause have on a woman's psychological, social and medical well-being.

**PA-616 Psychiatry (3 credits)**

The purpose of the psychiatry clinical rotation is to provide the student with clinical experience in the varied presentations of mental illness. The student will have an opportunity to evaluate, identify and learn management of both acute and non-acute psychiatric patients.

**PA-617 Emergency Medicine (3 credits)**

The Emergency Medicine clinical rotations purpose is to provide students practical clinical experience in the care of acute medical emergencies. Students will develop an understanding of the concept of triage in an emergency situation where care is provided to the development of physical examination skills, and the art of developing rapport with patients. By the end of the course, students will have received instruction and training in basic communication skills and how to conduct a medical interview, as well as future care.

**PA-618 Elective Clinical Rotation I (3 credits)**

Elective Clinical Rotation I offers an opportunity for physician assistant students to explore any area of medicine, subspecialty areas of medicine not covered in the current curriculum, spend more clinical time in primary care, or work with a physician that has been identified as a potential employer. Elective Clinical Rotation I will allow students the flexibility to explore an area of medicine which the student has an interest in or an area of medicine in which the student believes they are deficient in. In addition, through course requirements, the student will further develop their writing skills and clinical acumen by writing an H&P about an interesting patient presentation from their elective rotation.

**PA-619 Elective Clinical Rotation II (3 credits)**

Elective Clinical Rotation II offers an opportunity for physician assistant students to explore any area of medicine, subspecialty areas of medicine not covered in the current curriculum, spend more clinical time in primary care, or work with a physician that has been identified as a potential employer. Elective Clinical Rotation II will allow students the flexibility to explore an area of medicine which the student has an interest in or an area of medicine in which the student believes they are deficient in. In addition, through course requirements, the student will further develop their writing skills and clinical acumen by writing an H&P about an interesting patient presentation from their elective rotation.

**PA-650 Technology in Physician Assistant Practice (3 credits)**

This interactive course delves into the dynamic intersection of technology and the evolving landscape of Physician Assistant (PA) practice. The course explores the pivotal role of technology in modern healthcare delivery and its specific implications for PAs. Students will explore the practical applications of technology across various healthcare domains, including primary care, emergency medicine, and public health. Emphasis is placed on understanding ethical, legal, and regulatory considerations associated with technology-enabled care delivery.

**PA-651 Healthcare Leadership (3 credits)**

This interactive course prepares Physician Assistants (PA) to enhance skills in leadership to meet the evolving healthcare trends. The course prepares PAs with necessary skills to effectively lead teams, departments, and facilities. The course focuses on the broader healthcare landscape, including innovation in healthcare organizations ethical decision-making, and legal frameworks. Emphasis is on current healthcare organization challenges such as workforce recruitment and burnout, data security, and access to care.

**PA-652 Process Improvement in Healthcare (3 credits)**

This course is designed to equip advanced healthcare practitioners with the essential knowledge and skills to lead and participate in process improvement initiatives. The course explores an overview of key concepts, theories and methodologies related to process improvement. The course focuses on techniques for collecting, analyzing, and interpreting healthcare data to identify areas for improvement, measure performance, and monitor impact of interventions. Emphasis is placed on the importance of collaboration and teamwork in healthcare process improvement, ethical considerations, and strategies for effectively engaging interprofessional teams in the improvement process.

**PA-653 Professional, Ethical, and Legal Issues in Medicine (3 credits)**

This course delves into the multifaceted aspects of professional, ethical, and legal issues encountered by physician assistants in contemporary healthcare settings. It provides a comprehensive overview of the principles, regulations, and ethical dilemmas inherent in medical practice, with a focus on fostering ethical decision-making and legal compliance.

**PA-654 Curriculum Development and Teaching Strategies in Physician Assistant Education (3 credits)**

This course equips Physician Assistant's aspiring to become academic leaders and educators in the field of physician assistant education with the knowledge, skills, and strategies necessary to develop effective curricula and implement innovative teaching methodologies. Students will explore principles and practices underpinning effective curriculum design and development. The course focuses on active learning techniques, data-driven methods, and the role of technology in enhancing education.

**PA-655 Social Determinants of Health in Medicine and Education (2 credits)**

This course explores the multifaceted relationship between social determinants of health (SDH), medicine, and education, with a focus on the role of physician assistants (PAs) in addressing health disparities and promoting health equity. Through an interdisciplinary lens, students will examine the impact of various social, economic, and environmental factors on individual and community health outcomes.

**PA-656 Assessment and Accreditation in PA Education (3 credits)**

This course provides an in-depth exploration of assessment and accreditation in physician assistant education, with a focus on developing students' proficiency in evaluation methodologies, accreditation standards, and quality assurance practices. Students explore the intricacies of designing, implementing, critically analyzing, and evaluating education programs to meet accreditation standards. Best practices in teaching, learning, assessment and course design will be explored. Various assessment methods, competency-based evaluations, and processes and standards in higher education will be explored, with a focus on PA education. The course will emphasize continuous quality improvement in PA education and higher education institutions.

**PA-700 Research Methods and Design in Medicine (3 credits)**

This course provides an in-depth exploration of research methods and design principles as they apply to the field of medicine. Students will examine various research methodologies commonly used in medical research, including experimental, observational, and qualitative approaches. Through a combination of lectures, discussions, and practical exercises, students will learn how to formulate research questions, design research studies, collect and analyze data, and interpret research findings.

**PA-701 Biostatistics in Medical Research (3 credits)**

This course aims to provide a comprehensive understanding of biostatistical methods and their application in medical research. Through a combination of lectures, practical exercises, and real-world examples, students will develop the skills necessary to design, analyze, and interpret data from clinical trials, observational studies, and other types of medical research.

Corequisite(s): Take PA-700

**PA-702 Capstone Project (4 credits)**

Under the guidance and supervision of a faculty member, the student will complete a capstone project in the customary format of a statement of the problem to be studied, its significance to the field, and a relevant review of literature, data collection and analysis, and final synthesis.

Prerequisite(s): Take PA-700

Corequisite(s): Take PA-701