

PAS 500**Introduction to the PA Profession**

Credits: 1.0 hours

This course is designed to introduce the student to the inner workings of the PA profession; its history, development, organizations, current trends in the profession, the physician/PA team, professionalism, patient consent, HIPAA, credentialing, and licensure. This course also explores cultural issues and patient care, quality assurance, and risk management.

Prerequisites: Matriculation into the LMU-SMS PA Program.

PAS 505**Pharmacology**

Credits: 1.0 hours

This course will introduce students to the general principles of pharmacology (pharmacokinetics, pharmacotherapy, and pharmacodynamics). The focus will be the basic science principles that provide the foundation for clinical pharmacology and pharmacotherapeutics. The course will also review medical microbiology, human biochemistry, and physiology as it relates to pharmacokinetics and pharmacodynamics. The course will be delivered as a blend of self-directed learning through lectures and/or readings and small group activities formulated to apply basic science concepts in solving clinical problems.

Prerequisites: Matriculation into the LMU-SMS PA Program.

PAS 510**Anatomy**

Credits: 5.0 hours

This course is focused on the body's structure. The course is organized according to six major body regions: lower limb and back; upper limb; thorax; abdomen; pelvis; and head and neck. Lectures, tutorials, and computer aided instruction will be given throughout the course. Students will work with prosections in the anatomy laboratory. Each student is expected to learn anatomical terminology as well as three-dimensional and radiological anatomy. Throughout the course students will be challenged to relate the anatomy to the solution of clinical problems. The latter is an integral part of the anatomy curriculum. Students will be evaluated by a series of written and laboratory practical examinations.

Prerequisites: Matriculation into the LMU-SMS PA Program.

PAS 515**Physiology/Pathophysiology I**

Credits: 3.0 hours

This is the first of three courses covering human physiology and pathophysiology. In particular, this course covers the normal physiologic concepts, mechanisms and relevant anatomy involved in the healthy individual. In some cases, pathophysiology

and disease mechanisms and presentation will also be discussed to add additional layers of context to the material and how it relates with material presented in concomitant and subsequent courses. Additional clinical correlate and exam sessions will also be required components. Individual study and group work/presentations will be required. Time management, a high level of organization, teamwork and self-motivation are essential to success in this course.

Prerequisites: Matriculation into the LMU-SMS PA Program.

PAS 516
Physiology/Pathophysiology II

Credits: 2.0 hours

This is the second of a three-course series in Physiology and Pathophysiology. Students acquired basic knowledge of general principles of cellular physiology, fundamentals of regulatory and organ systems physiology. In this second course, students will build on and apply their knowledge to analyze the pathophysiology of hematology, as well as the renal, endocrine, cardiovascular, ophthalmologic, otolaryngologic, and respiratory systems. This course runs in parallel with Pharmacology/Pharmacotherapy I (PAS 535) and Clinical Medicine I (PAS 550) covers the same organ systems; and is designed to lay the foundation for those courses.

Prerequisites: PAS 500, PAS 505, PAS 510, PAS 515, PAS 520, and PAS 575.

PAS 517
Physiology/Pathophysiology III

Credits: 2.0 hours

This is the third of a three-course series in Physiology and Pathophysiology. Students acquired basic knowledge of general principles of cellular physiology, fundamentals of regulatory and organ systems physiology. In this third course, students will build on and apply their knowledge to analyze the pathophysiology of neurologic, orthopedic, rheumatologic, gastrointestinal, and reproductive systems. This course runs in parallel with Clinical Medicine II (PAS 551) and Pharmacology/Pharmacotherapy II (PAS 536), covers the same organ systems; and is designed to lay the foundation for those courses.

Prerequisites: PAS 500, PAS 505, PAS 510, PAS 515, PAS 520, and PAS 575.

PAS 520
Clinical Assessment and Technical Skills I

Credits: 3.0 hours

This course introduces the student to patient history taking, communication skills, and a variety of clinical and procedural skills. Students will begin using medical diagnostic equipment as they develop the skills needed to perform complete and focused physical examinations. Students will examine assigned lab partners and simulated patients to gain the skills and knowledge to perform a thorough history and physical examination.

Students will have an opportunity to practice procedural skills during laboratory sessions.

Prerequisites: Matriculation into the LMU-SMS PA Program.

PAS 521

Clinical Assessment and Technical Skills II

Credits: 3.0 hours

This course is a continuation of Clinical Assessment and Technical Skills I. Students will learn additional components of physical examination, recognize abnormal and normal findings, and communicate the information in oral and written formats. Students will examine assigned lab partners and simulated patients to gain the skills and knowledge to perform a thorough history and physical examination. Taught in lecture, small group and lab formats. Students will have opportunity to practice procedural skills during lab sessions.

Prerequisites: PAS 500, 505, 510, 515, 520, and 575.

PAS 525

Medical Law, Ethics, and Health Care Delivery Systems

Credits: 1.0 hours

This course is designed to provide a fundamental level of knowledge of the structure and function of the U.S. healthcare delivery system, its medical laws, and the ethical theories and issues associated as they apply to the PA and PA/physician team. Issues discussed will include reimbursement, inequality to accessing health care issues, health care policies, and the roles of the different members of the health care professional team.

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 535, 536, 545, 550, 551, 560, and 575.

PAS 535

Pharmacology and Pharmacotherapeutics I

Credits: 2.0 hours

The focus of this course is basic pharmacology and pharmacotherapeutics of selected drug classes. The course runs parallel to Physiology/Pathophysiology II (PAS 516) and Clinical Medicine I (PAS 550) courses and is designed to provide a background understanding of medication actions in health and disease.

Prerequisites: PAS 500, 505, 510, 515, 520, and 575.

PAS 536

Pharmacology and Pharmacotherapeutics II

Credits: 2.0 hours

This is the second course in Pharmacology and Pharmacotherapeutics. Students will add to their knowledge of general principles of pharmacology, pharmacokinetics, and

pharmacotherapeutics. The course runs parallel to the Physiology/Pathophysiology III (PAS 517) and Clinical Medicine II (PAS 551) courses and is designed to provide a background understanding medication actions in health and disease.

Prerequisites: PAS 500, 505, 510, 515, 516, 520, 521, 535, 550, 560, and 575.

PAS 540

Behavioral Medicine

Credits: 2.0 hours

This course is designed to provide the student with tools to evaluate, diagnose, and manage psychiatric conditions. Students will gain an appreciation for the Diagnostic and Statistical Manual (DSM) classifications of mental illness as well as the importance of timely referrals to other healthcare professionals. Information will be provided on behavioral issues that impact health, the genetic and environmental aspects of behavioral disorders, etiology and treatment of substance abuse, responses and coping mechanisms for stress, growth and development, life cycle development, personality development, human sexuality, death and dying and bereavement.

Prerequisites: PAS 530, PAS 550, PAS 535.

PAS 545

Clinical Assessment and Technical Skills III

Credits: 3.0 hours

This course is a continuation of Clinical Assessment and Technical Skills II. Students will learn additional components of the physical examination, recognize abnormal and normal findings, and communicate the information in oral and written formats. Students will examine assigned lab partners and simulated patients to gain the skills and knowledge to perform a thorough history and physical examination. This course is taught in lecture, small group, & lab formats. Students will have an opportunity to practice procedural skills during lab sessions.

Prerequisites: PAS 500, 505, 510, 515, 516, 520, 521, 535, 550, 560, and 575.

PAS 546

Clinical Assessment and Technical Skills IV

Credits: 3.0 hours

This course is a continuation of Clinical Assessment and Technical Skills III. Students will learn additional components of the physical examination, recognize abnormal and normal findings, and communicate the information in oral and written formats. Students will examine assigned lab partners and simulated patients to gain the skills and knowledge to perform a thorough history and physical examination. This course is taught in lecture, small group, & lab formats. Students will have an opportunity to practice procedural skills during lab sessions.

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 535, 536, 545, 550, 551, 560, and 575.

PAS 550**Clinical Medicine I**

Credits: 9.5 hours

This is a continuing course (with PAS551 and PAS552) and is designed to examine the epidemiology, etiology, clinical presentation, diagnostic evaluation, management, and follow-up of various diseases and disorders encountered in the primary care setting. Students will learn how to formulate differential diagnoses, recognize important history and physical examination clues, order appropriate diagnostic studies, interpret the results of the diagnostic studies, and apply this information to the diagnosis and treatment of various diseases and disorders encountered in the primary care setting. This course emphasizes diseases and disorders related to the immune (infectious disease), hematologic (including oncology), renal, endocrine, pulmonary, cardiovascular, ophthalmologic, and otolaryngologic systems.

Prerequisites: PAS 500, 505, 510, 515, 520, and 575.

PAS 551**Clinical Medicine II**

Credits: 9.5 hours

Clinical Medicine II (PAS 551) is a continuation of Clinical Medicine I (PAS 550) examining the epidemiology, etiology, clinical presentation, diagnostic evaluation, management, and follow-up of various diseases and disorders encountered in the primary care setting. Students will learn how to formulate differential diagnoses, recognize important history and physical examination clues, order appropriate diagnostic studies, interpret the results of the diagnostic studies, and apply this information to the diagnosis and pharmacologic and non-pharmacologic treatment of various diseases and disorders encountered in the primary care setting. Emphasis in this course will be on conditions of the neurologic, gastroenterological, rheumatologic, musculoskeletal, genitourinary, and reproductive systems.

Prerequisites: PAS 500, 505, 510, 515, 516, 520, 521, 535, 550, 560, and 575.

PAS 552**Clinical Medicine III**

Credits: 5.0 hours

This course is a continuation of Clinical Medicine I (PAS 550) and Clinical Medicine II (PAS 551) studying the epidemiology, etiology, pathophysiology, clinical presentation, diagnostic evaluation, and management of common conditions encountered in the primary care setting. This course will focus on the health maintenance and evaluation and management of common disorders encountered in pediatric and geriatric patients. Students will also learn the etiology, epidemiology, pathophysiology, clinical presentation, diagnostic evaluation, and management of dermatologic conditions encountered in the primary care setting. Additionally, students will learn how to evaluate and manage common conditions encountered in the hospitalized patient and provide for patient safety.

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 535, 536, 545, 550, 551, 560, and 575.

PAS 560

Research Methods

Credits: 2.0 hours

This course emphasizes the incorporation of evidence-based medicine, through evaluation and interpretation of current research, into clinical practice. Students will become familiar with research methodology and various forms of research presentation. Methods for critically appraising medical literature and strategies for keeping current with new medical findings are stressed throughout the course. Additionally, students will be instructed on how to complete poster presentations, clinical application papers, and research papers.

Prerequisites: PAS 500, 505, 510, 515, 520, and 575.

PAS 565

Surgery and Emergency Medicine

Credits: 2.0 hours

In PAS 565 (Surgery/Emergency Medicine), students will learn epidemiology, etiology, pathophysiology, clinical presentation, diagnostic evaluation, and management of common surgical conditions and emergent medical conditions. Students will learn the important concepts necessary for pre-, intra-, and post-operative care of surgical patients. Students will also learn how to prioritize the evaluation and management of patients presenting to the Emergency Department.

Prerequisites: PAS 505, PAS 510, PAS 515, PAS 516, PAS 517, PAS 535, PAS 536, PAS 545, PAS 550, and PAS 551.

PAS 575

Public Health Issues

Credits: 2.0 hours

This course will introduce students to public health initiatives unique to the United States, and more specifically, rural Appalachia. The areas of health communication and cultural competency will be discussed as it applies to public health initiatives. Students will identify community resources and health services of benefit to individual patients and the community.

Prerequisites: Matriculation into the LMU-SMS PA Program.

PAS 600

Capstone Project

Credits: 4.0 hours

This course is designed to enable PA students to interpret research, write scholarly papers on approved topics in clinical medicine and do various other activities, including

obtaining certifications and participation in continuing medical education which leads to professional development of the student.

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575.

PAS 610

Family Medicine Rotation

Credits: 8.0 hours

This is a required 8-week rotation in Family practice under the supervision of a clinical site preceptor. The student will gain experience and be able to integrate the knowledge and skills learned during the didactic phase to interact with patients and their families, order and interpret lab and diagnostic tests, evaluate, and manage patients effectively. Students will have the opportunity to manage acute and chronic care in addition to patient education and increase their knowledge in the use of psychoactive pharmaceuticals (Minimum of 240 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575.

PAS 610

Internal Medicine Rotation

Credits: 8.0 hours

This is a required 8-week rotation in internal medicine under the supervision of a clinical site preceptor. The student will gain experience and be able to integrate the knowledge and skills learned during the didactic phase to interact with patients and their families, order and interpret lab and diagnostic tests, evaluate, educate patients about health maintenance, review patient records and evaluate established patients for their continual medical care. Students will have the opportunity to manage acute and chronic care in addition to patient education. With experience in both inpatient and outpatient settings, the student will be able to recognize emergent, acute, and chronic diagnoses and participate in the necessary continuity of care for each (Minimum of 240 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575.

PAS 625

Behavioral Health Rotation

Credits: 4.0 hours

This is a required 4-week rotation under the supervision of the site preceptor in which students will have the opportunity to learn about behavioral health conditions and interact with patients and their families. The student will gain experience in interviewing and assessing the behavioral health patient, ordering and interpreting lab and diagnostic tests, evaluating, and managing patients in a behavioral health setting (Minimum of 120 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575

PAS 630

Emergency Medicine Rotation

Credits: 4.0 hours

This is a required 4-week rotation under the supervision of the site preceptor in which the student will have the opportunity to evaluate and treat a wide variety of urgent, emergent and life-threatening conditions. The student will learn to triage patients, interact with patients' families, and become more proficient at taking rapid accurate histories, performing physical examinations, ordering appropriate diagnostic tests, and formulating a treatment plan. The student will have the opportunity to improve their oral presentations in a fast-paced environment. This rotation should give the student the opportunity to practice many clinical procedures such as suturing, endotracheal intubation, and ACLS (Minimum of 120 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575

PAS 640

Surgery Rotation

Credits: 4.0 hours

This is a required 4-week rotation in surgery under the supervision of a clinical site preceptor. The student will participate in pre, peri, and postoperative care. Students will gain experience in the evaluation of acutely ill surgical patients, assist in surgery, and identify indications, contraindications, and potential complications (Minimum of 120 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575.

PAS 650

Pediatric Rotation

Credits: 4.0 hours

This is a required 4-week rotation in pediatrics under the supervision of a clinical site preceptor. The student will refine their history taking and physical examination skills in the pediatric population, perform well child checks, evaluate children for developmental milestones, and diagnose and treat acute and chronic illnesses in children and adolescents. The student will have the opportunity to educate and counsel the patient and their parent or guardian (Minimum of 120 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575

PAS 670

Women's Health Rotation

Credits: 4.0 hours

This is a required 4-week rotation under the supervision of the site preceptor in which students will have the opportunity to see a wide variety of concerns related to the female reproductive system. Students will further develop their knowledge of assessment and treatment, preventive care, and screening recommendations of women's health issues. The rotation will also provide the opportunity for the student to become more familiar with women's health exams, pregnancy, menopause, and infertility. The student will have opportunities to participate in pre- and post-natal care (Minimum of 120 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575

PAS 690

Orthopedic Rotation

Credits: 4.0 hours

This is a required 4-week rotation in orthopedics under the supervision of the site preceptor. Students will have the opportunity to develop skills to care for patients with orthopedic problems that can be found in the primary care setting. Students will have the opportunity to participate in pre-, intra-, and postoperative care (Minimum of 120 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575.

PAS 680/PAS 685

Elective I/Elective II (Cardiovascular Surgery Rotation, Critical Care Rotation, Dermatology Rotation, Gastroenterology Rotation, Gynecology Rotation, Inpatient Neurology Rotation, Neurology Rotation, Neurosurgery Rotation, Online Radiology Rotation, Urgent Care Rotation, Vascular Surgery Rotation, and Pulmonology Rotation)

Credits: 4.0 hours

This is a required 4-week rotation in a field chosen by the student. This experience gives the student the opportunity to enhance their knowledge and skills in a particular specialty of medicine. The site must be approved by the Director of Clinical Education and will optimally be scheduled later in the clinical year (Minimum of 120 hours for rotation).

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575.

PAS 680/PAS 685

Elective I/Elective II

Community Health for the Underserved

Credits: 4.0 hours

In this course, students will explore barriers to the healthcare of medically underserved populations and discuss how outreach and intervention projects can overcome those barriers. Students will research community initiatives to serve medically underserved patients and discover how they can become actively involved in impacting the lives of medically underserved patients. The course will provide an opportunity for students to further develop medical outreach skills by participating in the development of clinical outreach projects and clinics. Students will also complete readings on topics relevant to outreach activities.

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575. Good academic standing within the program.

PAS 680/PAS 685

Elective I/Elective II

Family Medicine Elective with a PANCE Prep Focus

Credits: 4.0 hours

This is a required 4-week rotation in Family Medicine supervised by a clinical site preceptor. The student will gain experience and be able to integrate the knowledge and skills learned during the didactic phase to interact with patients and their families. Students will have the opportunity to evaluate and manage preventative, acute and chronic care conditions.

Prerequisites: PAS 500, 505, 510, 515, 516, 517, 520, 521, 525, 535, 536, 545, 546, 550, 551, 552, 560, 565 and 575.