

## COURSE DESCRIPTIONS

### **PAS 501: Clinically Oriented Anatomy and Dissection I**

This is the first of three courses focused on gross human anatomy presented in a regional approach. Students learn anatomical terminology and correlate structure with function. Learning objectives in the course align with many of the learning objectives in PAS 531 and 511. Instruction is primarily in lecture and laboratory format with identification of structures on prosected cadavers. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with multiple-choice question examinations and laboratory practical examinations.

**Pre-requisite(s):** PAS 506 and PAS 507

**Credits:** 3

### **PAS 502: Clinically Oriented Anatomy and Dissection II**

This is the second of three courses focused on gross human anatomy presented in a regional approach. Students learn anatomical terminology and correlate structure with function. Learning objectives in the course align with many of the learning objectives in PAS 532 and 512. Instruction is primarily in lecture and laboratory format with dissection and identification of structures on cadavers. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with multiple-choice question examinations and laboratory practical examinations.

**Pre-requisite(s):** PAS 506, PAS 507, PAS 501, PAS 511, PAS 531, and PAS 541

**Credits:** 4

### **PAS 503: Clinically Oriented Anatomy and Dissection III**

This is the third of three courses focused on gross human anatomy presented in a regional approach. Students learn anatomical terminology and correlate structure with function. Learning objectives in the course align with many of the learning objectives in PAS 532 and 513. Instruction is primarily in lecture and laboratory format with identification of structures on prosected cadavers. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with multiple-choice question examinations and laboratory practical examinations.

**Pre-requisite(s):** PAS 506, PAS 507, PAS 501, PAS 502, PAS 511, PAS 512, PAS 531, PAS 532, PAS 541, and PAS 542

**Credits:** 2

### **PAS 506: Foundations of Clinical Medicine**

This course focuses on the basic sciences that serve as the foundation for the practice of clinical medicine. Students will undertake an advanced study of human physiology, genetic and molecular mechanisms of health and disease, and microbiology. Students will also learn basic principles of pharmacology such as pharmacokinetics, pharmacodynamics, drug absorption, metabolism, and excretion. This course will highlight anatomical, physiological, and pharmacologic principles related to human organs, systems, and cellular function that can then

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be applied to clinical medicine, disease processes, and pharmacotherapeutics. Instruction is primarily in lecture and small group discussion. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with multiple-choice question examinations.

**Pre-requisite(s):** Matriculation into the LMU-SMS-Knoxville PA Program

**Credits** 7

### **PAS 507: Introduction to Patient Evaluation and Clinical Skills**

This course provides students with an introduction to the clinical psychomotor skills necessary for evaluating patients and performing common clinical procedures. Students learn how to conduct and document a complete medical history and physical examination. Students are also introduced to the interpersonal and communication skills necessary for the effective exchange of information and collaboration with patients, families, and other health care professionals. Instruction is primarily in lectures, laboratory sessions, and small group activities. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with multiple-choice question examinations, written assignments, and physical examination and clinical skills practicals.

**Pre-requisite(s):** Matriculation into the LMU-SMS-Knoxville PA Program

**Credits** 5

### **PAS 511: Patient Assessment and Clinical Skills I**

This is the first of three courses focused on patient assessment and clinical skills. Students develop interpersonal communication and clinical decision-making skills as they learn how to elicit focused patient histories, perform focused physical examinations, interpret clinical findings, order and interpret diagnostic studies, generate differential diagnosis lists, determine the most likely diagnosis, explain clinical findings and assessments to patients and their families, determine appropriate management options, engage patients and their families to formulate patient-centered management plans, and present and document patient encounters. Students learn the indications, contraindications, and potential complications of common clinical procedures. Students also develop correct techniques for and proper documentation of common clinical procedures. Learning objectives in this course align with many of the learning objectives in PAS 501 and PAS 531. Instruction is primarily in small group discussion, simulated patient encounters, and laboratory format. Procedures are performed on simulated task trainers, human cadavers, and classmates as appropriate. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with physical examination and clinical skills practicals, written assignments, and simulated patient encounters.

**Pre-requisite(s):** PAS 506 and PAS 507

**Credits** 4

### **PAS 512: Patient Assessment and Clinical Skills II**

This is the second of three courses focused on patient assessment and clinical skills. Students develop interpersonal communication and clinical decision-making skills as they learn how to elicit focused patient histories, perform focused physical examinations, interpret clinical findings, order and interpret diagnostic studies, generate differential diagnosis lists, determine the most likely diagnosis, explain clinical findings and assessments to patients and their families, determine appropriate management options, engage patients and their families to formulate patient-centered management plans, and present and document patient encounters. Students learn

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the indications, contraindications, and potential complications of common clinical procedures. Students also develop correct techniques for and proper documentation of common clinical procedures. Learning objectives in this course align with many of the learning objectives in PAS 502 and PAS 532. Instruction is primarily in small group discussion, simulated patient encounters, and laboratory format. Procedures are performed on simulated task trainers, human cadavers, and classmates as appropriate. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with physical examination and clinical skills practicals, written assignments, and simulated patient encounters.

**Pre-requisite(s):** PAS 506, PAS 507, PAS 501, PAS 511, PAS 531, and PAS 542

**Credits** 4

### **PAS 513: Patient Assessment and Clinical Skills III**

This is the third of three courses focused on patient assessment and clinical skills. Students develop interpersonal communication and clinical decision-making skills as they learn how to elicit focused patient histories, perform focused physical examinations, interpret clinical findings, order and interpret diagnostic studies, generate differential diagnosis lists, determine the most likely diagnosis, explain clinical findings and assessments to patients and their families, determine appropriate management options, engage patients and their families to formulate patient-centered management plans, and present and document patient encounters. Students learn the indications, contraindications, and potential complications of common clinical procedures. Students also develop correct techniques for and proper documentation of common clinical procedures. Learning objectives in this course align with many of the learning objectives in PAS 503 and PAS 533. Instruction is primarily in small group discussion, simulated patient encounters, and laboratory format. Procedures are performed on simulated task trainers, human cadavers, and classmates as appropriate. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with physical examination and clinical skills practicals, written assignments, and simulated patient encounters.

**Pre-requisite(s):** PAS 506, PAS 507, PAS 501, PAS 502, PAS 511, PAS 512, PAS 531, PAS 532, PAS 541, and PAS 542

**Credits** 3

### **PAS 531: Principles of Clinical Medicine I**

This is the first of three courses focused on the evaluation and management of acute, emergent, and chronic presentations of medical and surgical conditions found in pediatric, adult, and geriatric patient populations. Students learn the epidemiology, etiology, physiology, pathophysiology, clinical presentation, diagnostic evaluation, prevention, and management (acute, longitudinal, pre-/intra-/post-operative, pharmacologic, non-pharmacologic, referral, rehabilitative, palliative/end-of-life) of these conditions. Students also learn how to generate differential diagnoses and make clinical decisions by linking relevant anatomic, physiologic, and pathophysiologic concepts with clinical presentations and diagnostic study results. Learning objectives in this course align with many of the learning objectives in PAS 501 and PAS 511. Instruction is primarily in lectures, small group discussion, and case study format. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with multiple-choice question examinations.

**Pre-requisite(s):** PAS 506 and PAS 507

**Credits** 10

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### **PAS 532: Principles of Clinical Medicine II**

This is the second of three courses focused on the evaluation and management of acute, emergent, and chronic presentations of medical and surgical conditions found in pediatric, adult, and geriatric patient populations. Students learn the epidemiology, etiology, physiology, pathophysiology, clinical presentation, diagnostic evaluation, prevention, and management (acute, longitudinal, pre-/intra-/post-operative, pharmacologic, non-pharmacologic, referral, rehabilitative, palliative/end-of- life) of these conditions. Students also learn how to generate differential diagnoses and make clinical decisions by linking relevant anatomic, physiologic, and pathophysiologic concepts with clinical presentations and diagnostic study results. Learning objectives in this course align with many of the learning objectives in PAS 502 and PAS 512. Instruction is primarily in lectures, small group discussion, and case study format. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with multiple-choice question examinations.

**Pre-requisite(s):** PAS 506, PAS 507, PAS 501, PAS 511, PAS 531, and PAS 541

**Credits** 10

### **PAS 533: Principles of Clinical Medicine III**

This is the third of three courses focused on the evaluation and management of acute, emergent, and chronic presentations of medical and surgical conditions found in pediatric, adult, and geriatric patient populations. Students learn the epidemiology, etiology, physiology, pathophysiology, clinical presentation, diagnostic evaluation, prevention, and management (acute, longitudinal, pre-/intra-/post-operative, pharmacologic, non-pharmacologic, referral, rehabilitative, palliative/end-of- life) of these conditions. Students also learn how to generate differential diagnoses and make clinical decisions by linking relevant anatomic, physiologic, and pathophysiologic concepts with clinical presentations and diagnostic study results. Learning objectives in this course align with many of the learning objectives in PAS 503 and PAS 513. Instruction is primarily in lectures, small group discussion, and case study format. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with multiple-choice question examinations.

**Pre-requisite(s):** PAS 506, PAS 507, PAS 501, PAS 502, PAS 511, PAS 512, PAS 531, PAS 532, PAS 541, and PAS 542

**Credits:** 8

### **PAS 541: Physician Assistant Practice I**

The first of three courses focused on topics relevant to Physician Assistant practice. Instruction covers the historical development of the profession, professional organizations, the PA relationship with the physician and other health care providers, the roles and responsibilities of various health care professionals, the team approach to patient centered care, medical ethics, intellectual honesty, academic integrity, professional conduct, the provision of care to diverse populations, death, dying, and loss, patient response to illness, injury, and stress, and provider wellness. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with written assignments and/or small group activities.

**Pre-requisite(s):** PAS 506 and PAS 507

**Credits** 2

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### **PAS 542: Physician Assistant Practice II**

This is the second of three courses focused on topics relevant to Physician Assistant practice. Instruction covers methods to search, interpret, and evaluate medical literature, concepts of public health, patient safety, prevention of medical errors, quality improvement, and risk management. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with written assignments and/or small group activities.

**Pre-requisite(s):** PAS 506, PAS 507, PAS 501, PAS 511, PAS 531, and PAS 541

**Credits** 2

### **PAS 543: Physician Assistant Practice III**

This is the third of three courses focused on topics relevant to Physician Assistant practice. Instruction covers coding and billing, documentation of care, healthcare delivery systems, health policy, credentialing, laws and regulations regarding professional practice and conduct, licensure, and certification, and policies that affect PA practice. These learning experiences enable students to achieve the program's Didactic Phase Learning Outcomes. Student learning is assessed primarily with written assignments and/or small group activities.

**Pre-requisite(s):** PAS 506, PAS 507, PAS 501, PAS 502, PAS 511, PAS 512, PAS 531, PAS 532, PAS 541, and PAS 542

**Credits** 1

### **PAS 602: Clinical Conference / Clinical Phase Cumulative Assessment**

This course occurs in the 5th, 6th, and 7th semesters of the program. Students complete scholarly projects, mock summative assessments, and PANCE preparation activities. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed with grading rubrics for scholarly projects and mock summative simulated patient encounters, physical examination skills assessment, and clinical procedures skills assessment and with multiple choice examinations for the mock summative written examination and PANCE preparation activities.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits** 2

### **PAS 611: Family Medicine**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to adult and elderly patients presenting for acute, chronic, and preventive encounters in family medicine. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in the outpatient setting from initial presentation through ongoing follow-up. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541,

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PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits 4**

### **PAS 621: Hospital Medicine**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to adult and elderly patients admitted to the hospital for acute conditions and exacerbations of chronic conditions. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in the inpatient setting from admission through discharge. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits 4**

### **PAS 622: Outpatient Medicine**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to adult and elderly patients presenting for acute, chronic, and preventive encounters in family or internal medicine.

Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in the outpatient setting from initial presentation through ongoing follow-up. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits 4**

### **PAS 631: Behavioral Medicine**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to adult patients seeking care for acute and chronic behavioral and mental health conditions. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in the outpatient setting from initial presentation through ongoing follow up. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

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### Credits 4

#### **PAS 641: Pediatric Medicine**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to infants, children, and adolescents brought for acute, chronic, and preventive encounters. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in the outpatient setting from initial presentation through ongoing follow-up. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

### Credits 4

#### **PAS 651: Women's Health**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to adult patients presenting for acute, chronic, and preventive encounters in women's health. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in the outpatient setting from initial presentation through ongoing follow-up. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

### Credits 4

#### **PAS 661: Emergency Medicine**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to adult and elderly patients presenting to the emergency department for acute and emergent encounters and exacerbations of chronic conditions. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in the emergency department. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

### Credits 4

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### **PAS 671: Orthopedics**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to adult patients requiring orthopedic care for acute and chronic encounters. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in the outpatient setting from initial presentation through ongoing follow-up. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits 4**

### **PAS 681: Surgery**

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with exposure to adult patients requiring surgical care for acute, chronic, and emergent encounters. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters in surgical practice. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance and a multiple-choice examination.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits 4**

### **PAS 691: Selective I**

PAS 691/692/693: Selective I/II/III: Surgery / Medicine

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with the opportunity to select a SCPE in a surgery or medicine discipline of interest. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance, an assignment, and a presentation.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits 4**



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### **PAS-692: Selective II**

PAS 691/692/693: Selective I/II/III: Surgery / Medicine

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with the opportunity to select a SCPE in a surgery or medicine discipline of interest. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance, an assignment, and a presentation.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits 4**

### **PAS-693: Selective III**

PAS 691/692/693: Selective I/II/III: Surgery / Medicine

This required 4-week supervised clinical practice experience under the supervision of the clinical site preceptor is designed to provide students with the opportunity to select a SCPE in a surgery or medicine discipline of interest. Students apply knowledge and skills learned during the Didactic phase of the program to novel patient encounters. These learning experiences enable students to achieve the program's Clinical Phase Learning Outcomes. Student learning is assessed primarily with the clinical preceptor evaluation of student performance, an assignment, and a presentation.

**Pre-requisite(s):** Successful completion of all Didactic Phase courses (PAS 506, PAS 507, PAS 501, PAS 502, PAS 503, PAS 511, PAS 512, PAS 513, PAS 531, PAS 532, PAS 533, PAS 541, PAS 542, and PAS 543) and the Didactic Phase Cumulative Assessment (written examination, simulated patient encounter, physical examination skills assessment, and clinical procedures skills assessment).

**Credits 4**