

**COURSE DESCRIPTIONS – DIDACTIC YEAR****PAS 700 - Applied Anatomy & Physiology I – 4 Credit Hours**

Intensive study of human anatomy and physiology with clinical application of medical terminology. Designed to develop the PA student's working knowledge and understanding of the general structures and functional principles of the human body. Clinically relevant areas of radiographic imaging, surface anatomy, and clinical case correlations are integrated in course. Students will acquire anatomic knowledge with clinical application through cadaveric laboratory experience to include human and/or virtual dissection. Develops a strong foundation for the study of pathophysiology and disease states.

**PAS 711 - Applied Anatomy & Physiology II – 4 Credit Hours**

The second of two intensive human anatomy and physiology courses. Designed to develop the PA student's working knowledge and understanding of the human body's general structures and functional principles. Clinically relevant areas of radiographic imaging, surface anatomy, and clinical case correlations are integrated. Students will acquire anatomic knowledge with clinical application through the virtual dissection experience. Develops a strong foundation for the study of pathophysiology and disease states.

**PAS 710 – PA Profession – 1 Credit Hour**

Explores the history of the Physician Assistant (PA) profession, the role of the PA in today's health care system, and the factors affecting the PA. Designed to aid the student's transition into the medical profession and serve as an introduction to multiple professional practice issues.

**PAS 720 - Evidence Based Medicine – 1 Credit Hour**

Intensive study in evidence-based medicine and critical thinking about the information and evidence needed to produce clinical decisions. The student will be prepared to cope with the

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vast amount of medical literature produced every year. This course is structured to equip the student to effectively evaluate medical literature, and apply the information acquired to clinical decision making in the provision of individualized patient care.

**PAS 721 – Medical Genetics – 1 Credit Hour**

Will review the basic principles of medical genetics and its application to clinical practice. Students will learn to obtain a detailed family history and assess possible modes of inheritance. This involves the ability to understand the medical genetics literature, as well as the clinical application of genetic knowledge in the care of individual patients. Ethical principles related to genetic evaluation, testing, and diagnosis will be discussed. The underlying etiology, clinical presentation, evaluation, diagnosis, prognosis, and treatment options of specific genetic disorders will be reviewed.

**PAS 722 – Clinical Geriatrics– 2 Credit Hours**

Designed to provide an overview of the aging population and age-related disorders, and correlates theory and clinical practice in providing care to the geriatric population. The adjustment of older adults to degenerative changes, nursing home placement, and alternatives to placement in long term care facilities are discussed. Concepts relevant to pathophysiology, nutrition, pharmacology, psychosocial development, and ethical/legal responsibilities are emphasized using an evidence-based and functional approach.

**PAS 731 - Clinical Pediatrics – 2 Credit Hours**

Course introduces the PA student to pediatric medicine. Focuses on the physiological and psychological fundamentals of child development, major common pediatric illnesses, various immunizations and medications used in pediatrics, pediatric emergencies, and the management of both healthy and ill infants, children and adolescents.

**PAS 732 – Psychiatry & Behavioral Medicine – 2 Credit Hours**

Course will present an introduction to the neurobiological, psychobiological, emotional, social, and cultural influences on mental health and illness of diverse patient populations with acute and chronic conditions across the lifespan, including end-of-life care, and will integrate human physical and psychological development, human sexuality, and responses to stress, injury, illness and death. Also incorporated is the training in substance use, abuse, addiction, and treatment adherence issues. Principles of violence identification and prevention will be examined, and basic counseling skills and instruments for the evaluation and management of psychiatric disorders will be presented.

**PAS 740 – Clinical Procedures I – 2 Credit Hours**

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Designed to allow students to become competent in a variety of patient care skills. Skills are sequenced to the body systems being covered in the physical diagnosis course. Allows students to safely apply the medical-decision making process and learn the procedural skills in a simulated environment. Course will utilize simulators, task trainers and standardized patient experiences.

**PAS 741 – Clinical Procedures II – 2 Credit Hours**

Designed to allow students to become competent in a variety of patient care skills. Skills are sequenced to the body systems being covered in the physical diagnosis course. Allows students to safely apply the medical-decision making process and learn the procedural skills in a simulated environment. Course will utilize simulators, task trainers and standardized patient experiences.

**PAS 742 – Clinical Procedures III – 2 Credit Hours**

Designed to allow students to become competent in a variety of patient care skills. Skills are sequenced to the body systems being covered in the physical diagnosis course. Allows students to safely apply the medical-decision making process and learn the procedural skills in a simulated environment. Course will utilize simulators, task trainers and standardized patient experiences.

**PAS 750 – Physical Diagnosis I – 2 Credit Hours**

Designed to provide training on the skills and competencies necessary for obtaining a patient's medical history and performing a physical examination. Includes an approach to patient interviewing, acquiring clinical information, organizing and processing this information, and presenting it in a clear and concise manner. This will be achieved by learning examination techniques through lectures, small group settings, faculty mentoring, practicum examinations, and select body system specialty exams.

**PAS 751 – Physical Diagnosis II – 2 Credit Hours**

Designed to provide training on the skills and competencies necessary for obtaining a patient's medical history and performing a physical examination. Includes an approach to patient interviewing, acquiring clinical information, organizing and processing this information, and presenting it in a clear and concise manner. This will be achieved by learning examination

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techniques through lectures, small group settings, faculty mentoring, practicum examinations, and select body system specialty exams.

**PAS 752 – Physical Diagnosis III – 2 Credit Hours**

Designed to provide training on the skills and competencies necessary for obtaining a patient's medical history and performing a physical examination. Includes an approach to patient interviewing, acquiring clinical information, organizing and processing this information, and presenting it in a clear and concise manner. This will be achieved by learning examination techniques through lectures, small group settings, faculty mentoring, practicum examinations, and select body system specialty exams.

**PAS 760 – Diagnostics I – Laboratory – 2 Credit Hours**

First of a three-part series designed to introduce the student to clinical diagnostics in medicine. Presents a foundation for understanding the appropriate use and interpretation of diagnostic testing. Various diagnostic tests will be reviewed to allow the student to differentiate normal from abnormal values, and provide the basis for selection, utilization, and interpretation of the tests used to evaluate principal functions of body systems, and their correlation to clinical conditions.

**PAS 761 – Diagnostics II - EKG – 2 Credit Hours**

Second of a three-part series designed to introduce the student to clinical diagnostics in medicine. Presents a foundation for understanding the appropriate use and interpretation of diagnostic testing. Various diagnostic tests will be reviewed to allow the student to differentiate normal from abnormal values, and provide the basis for selection, utilization, and interpretation of the tests used to evaluate principal functions of body systems, and their correlation to clinical conditions.

**PAS 762 - Diagnostics III - Radiology – 2 Credit Hours**

Third of a three-part series designed to introduce the student to clinical diagnostics in medicine. Presents a foundation for understanding the appropriate use and interpretation of diagnostic testing. Various diagnostic tests will be reviewed to allow the student to differentiate normal from abnormal values, and provide the basis for selection, utilization, and interpretation of the tests used to evaluate principal functions of body systems, and their correlation to clinical conditions.

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**PAS 770 – Applied Pathophysiology I – 2 Credit Hours**

Designed to develop the PA student's working knowledge and comprehensive understanding of the pathophysiological principles of the human body. An intensive study of pathology of the human body, which explores the etiology of organic and systemic disease, providing an insight into the disordered physiological changes resulting from specific disease processes. Provides the necessary linkage between the basic sciences and the clinical presentation of disease states.

**PAS 771 – Applied Pathophysiology II – 2 Credit Hours**

Designed to develop the PA student's working knowledge and comprehensive understanding of the pathophysiological principles of the human body. An intensive study of pathology of the human body, which explores the etiology of organic and systemic disease, providing an insight into the disordered physiological changes resulting from specific disease processes. Provides the necessary linkage between the basic sciences and the clinical presentation of disease states.

**PAS 772 – Applied Pathophysiology III – 2 Credit Hours**

Designed to develop the PA student's working knowledge and comprehensive understanding of the pathophysiological principles of the human body. An intensive study of pathology of the human body, which explores the etiology of organic and systemic disease, providing an insight into the disordered physiological changes resulting from specific disease processes. Provides the necessary linkage between the basic sciences and the clinical presentation of disease states.

**PAS 780 – Clinical Medicine I – 6 Credit Hours**

The first in a series of three courses designed to guide the development of problem-solving skills in the medical decision-making process. This course uses a body systems approach to thoroughly study diseases/disorders encountered in primary care practice. Medical knowledge includes the epidemiology, etiology, pathophysiology, clinical manifestations, diagnosis, management and patient education of diseases/disorders. Instruction includes providing care to preventive, emergent, acute, chronic, adolescent, adult, and elderly populations as it applies to disease processes. Instruction will consist of lectures, problem/case-based learning, and small

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group collaboration.

**PAS 781 – Clinical Medicine II– 6 Credit Hours**

The second in a series of three courses designed to guide the development of problem-solving skills in the medical decision-making process. This course uses a body systems approach to thoroughly study diseases/disorders encountered in primary care practice. Medical knowledge includes the epidemiology, etiology, pathophysiology, clinical manifestations, diagnosis, management and patient education of diseases/disorders. Instruction includes providing care to preventive, emergent, acute, chronic, adolescent, adult, and elderly populations as it applies to disease processes. Instruction will consist of lectures, problem/case-based learning, and small group collaboration.

**PAS 782 – Clinical Medicine III – 7 Credit Hours**

The third in a series of three courses designed to guide the development of problem-solving skills in the medical decision-making process. This course uses a body systems approach to thoroughly study diseases/disorders encountered in primary care practice. Medical knowledge includes the epidemiology, etiology, pathophysiology, clinical manifestations, diagnosis, management and patient education of diseases/disorders. Instruction includes providing care to preventive, emergent, acute, chronic, adolescent, adult, and elderly populations as it applies to disease processes. Instruction will consist of lectures, problem/case-based learning, and small group collaboration.

**PAS 790 – Pharmacology I – 2 Credit Hours**

Designed as a survey of pharmacology, course emphasizes the fundamentals of drug absorption, distribution, metabolism, and elimination. Course focuses on the relationship between drugs and receptors, adverse drug reactions, toxicity, and drug indications and contraindications. Utilizing evidence-based medicine, pharmacotherapeutics with application to patient care is also incorporated.

**PAS 791 – Pharmacology II – 2 Credit Hours**

Designed as a survey of pharmacology, course emphasizes the fundamentals of drug absorption, distribution, metabolism, and elimination. Course focuses on the relationship between drugs and receptors, adverse drug reactions, toxicity, and drug indications and

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contraindications. Utilizing evidence-based medicine, pharmacotherapeutics with application to patient care is also incorporated.

**PAS 792 – Pharmacology III – 2 Credit Hours**

Designed as a survey of pharmacology, course emphasizes the fundamentals of drug absorption, distribution, metabolism, and elimination. Course focuses on the relationship between drugs and receptors, adverse drug reactions, toxicity, and drug indications and contraindications. Utilizing evidence-based medicine, pharmacotherapeutics with application to patient care is also incorporated.

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