



JOHNSON & WALES
UNIVERSITY

PROVIDENCE CAMPUS

**JOHNSON & WALES UNIVERSITY PHYSICIAN ASSISTANT STUDIES
DIDACTIC YEAR COURSE DESCRIPTIONS**

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
SEMESTER: Summer
COURSE TITLE: Applied Anatomy
COURSE NUMBER: PAS5100
SEMESTER CREDIT HOURS: 3 Credit Hours

COURSE DESCRIPTION:

This lecture and laboratory course covers the anatomy most relevant to clinical practice as a physician assistant through the use of prosection and dissection of human cadavers. The course proceeds through each of the body organ systems with presentations emphasizing normal and clinically relevant gross, regional and surface anatomy to include the musculoskeletal, neurologic, cardiovascular, respiratory, endocrine, gastrointestinal, renal, and reproductive systems. This course complements, enhances, and assists the student with integration of this information into the physical examination skills taught in the Patient Care I course. As part of this course, clinical correlations introduce the student to principles of radiologic imaging and laboratory studies to further recognize and evaluate normal anatomy, conditions and pathology. Applied Anatomy also serves to provide a foundation for the practical application of anatomical knowledge needed for the study and understanding of diseases which will be taught in the Clinical Medicine I-IV courses and ultimately clinical practice.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
TERM OR SEMESTER: Summer
COURSE TITLE: Foundations of Medicine
COURSE NUMBER: PAS 5200
SEMESTER CREDIT HOURS: 4 Credit Hours

COURSE DESCRIPTION:

This lecture based course provides the foundation of the basic scientific concepts and principles needed for the study and treatment of diseases. It consists of 5 modules: Microbiology, Immunology, Genetics, Cell Physiology and Introduction to Pharmacology. The five modules of the course provide the molecular and cellular basis of diseases which is vital for understanding the mechanisms of disease pathogenesis. The cell physiology module presents the physiological fundamentals and processes at the human cellular and tissue level necessary for understanding disease processes and drug metabolism. The genetics module presents the basic concepts and principles of genetics, the basic architecture of the genome, mechanisms of disease related to genetic changes, and gene therapy, to build upon the role of genetics

in disease risk, development and prevention. The microbiology and immunology modules introduce and explore the roles of bacteria, viruses and other infectious-disease-causing microorganisms in humans. The module covers useful diagnostic laboratory procedures and emphasizes the clinical significance of pathogenicity and therapy. The Introduction to Pharmacology module presents the basic scientific principles of pharmacology, pharmacokinetics, pharmacodynamics and biotransformation needed to understand the therapeutic uses and effects of drugs. The module provides an introduction of how to apply these principles to classes of drugs using prototype and common examples in each class.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
TERM OR SEMESTER: Summer
COURSE TITLE: Patient Care I
COURSE NUMBER: PAS 5325
SEMESTER CREDIT HOURS: 3 Credit Hours
COURSE DESCRIPTION:

Patient Care I is a lecture and laboratory based course designed to teach the principles and techniques for obtaining, performing and documenting a comprehensive medical history and complete physical examination. Lectures focus on history taking skills including communication and interviewing skills and humanistic principles. The normal physiologic findings for each system of the body in addition to initial introduction to abnormal findings indicative of disease states are presented. The laboratory sessions focus on developing, practicing and meeting a defined level of skill needed to competently perform both the medical interview and a complete head to toe physical examination. Instructional techniques include lecture, small and large group dynamics, practical experience and critiques of interviewing, communication and physical examination skills by peers and faculty.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
SEMESTER: Summer
COURSE TITLE: Professional and Health Policy I
COURSE NUMBER: PAS 5344
SEMESTER CREDIT HOURS: 2.5 credit hours

COURSE DESCRIPTION:

Professional and Health Policy (I-III) is a course which spans all three (3) first-year semesters. It is a lecture and small group course which focuses on practical principles related to medical ethics and professionalism, cultural awareness and bias, health care delivery and policy issues, behavior change principles, evidence-based medicine, Food As Medicine, the opioid epidemic and public health as they relate to the role and responsibilities of a Physician Assistant.

Professional and Health Policy I (PHP I) begins with an exploration of the Program's emphasis on humanism in medicine. It introduces the student to principles related to medical ethics and include the AAPA Guidelines for Ethical Conduct for the Physician Assistant Profession. It includes instruction and

discussion related to the laws and regulations regarding professional practice. Students explore and evaluate their own and others' cultural beliefs and values regarding health and illness, in order to understand the wide range of cultural differences and to navigate those differences comfortably for the best care of and relationship with the patient and significant others. As future providers within the U.S. health care system, students receive an overview of health care delivery systems. This course also includes the history and development of the Physician Assistant profession, its institutions, and current trends regarding legislation and regulations affecting PA practice. Finally, PHP I includes an introduction to the principles and practice of Public Health.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
SEMESTER: Fall
COURSE TITLE: Clinical Medicine I
COURSE NUMBER: PAS5523
SEMESTER CREDIT HOURS: 4 Credit Hours

PREREQUISITE(S): PAS5100 Applied Anatomy
PAS5200 Foundations of Medicine
PAS5344 Professional and Health Policy I
PAS5325 Patient Care I

COURSE DESCRIPTION:

Clinical Medicine I (part of the series of courses Clinical Medicine I-IV) is a cornerstone course in the curriculum. This lecture-based course is designed to teach the student fundamental principles in epidemiology, physiology, pathophysiology, clinical presentation, diagnosis and management of disease states and conditions commonly encountered in primary care practice. This course is coordinated with the Patient Care II, Diagnostic Skills I and Pharmacotherapeutics I courses, refining history taking and physical examination skills, differentiating between diagnostic tests, and identifying pharmacotherapeutic options. This organ-system, evidence-based course encompasses initial presentation through follow-up care with a humanistic approach to a patient centered medical model throughout the lifespan. Lectures present the most common clinical conditions (acute and chronic) seen by primary care providers. In addition, the course incorporates patient education, health promotion and disease prevention, and provides opportunities for the student to develop and refine critical thinking skills in preparation for clinical practice. Organ systems covered in Clinical Medicine I include Hematology, EENT (Eye, Ears, Nose, Throat,) Pulmonary, Musculoskeletal and Rheumatology.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies.
SEMESTER: Fall 2019
COURSE TITLE: Clinical Medicine II
COURSE NUMBER: PAS5533

SEMESTER CREDIT HOURS: 4 Credit Hours

PREREQUISITE(S): PAS5100 Applied Anatomy
PAS5200 Foundations of Medicine
PAS5344 Professional and Health Policy I
PAS5325 Patient Care I
PAS5523 Clinical Medicine I

COURSE DESCRIPTION:

Clinical Medicine II (part of the series of courses Clinical Medicine I-IV) is a cornerstone course in the curriculum. This lecture-based course is designed to teach the student fundamental principles in epidemiology, physiology, pathophysiology, clinical presentation, diagnosis and management of disease states and conditions commonly encountered in primary care practice. This course is coordinated with the Patient Care II, Diagnostic Skills I and Pharmacotherapeutics I courses, refining history taking and physical examination skills, differentiating between diagnostic tests, and identifying pharmacotherapeutic options in the management of the disease states and conditions. This organ-system, evidence-based course encompasses initial presentation through follow-up care with a humanistic approach to a patient centered medical model throughout the lifespan. Lectures present the most common clinical conditions (acute and chronic) seen by primary care providers. In addition, the course incorporates patient education, health promotion and disease prevention, and provides opportunities for the student to develop and refine critical thinking skills in preparation for clinical practice. Organ systems covered in Clinical Medicine II include Behavioral Health, Cardiology, Dermatology and Renal.

SCHOOL/COLLEGE: College of Health and Wellness **DEPARTMENT**
NAME: Center for Physician Assistant Studies
SEMESTER: Fall
COURSE TITLE: Diagnostic Skills I
COURSE NUMBER: PAS5620
SEMESTER CREDIT HOURS: 4.5 Credit Hours

PREREQUISITE(S): PAS5100 Applied
Anatomy PAS5200
Foundations of Medicine
PAS5344 Professional and Health Policy I
PAS5325 Patient Care I

COURSE DESCRIPTION:

This lecture, laboratory and small-group based course is designed to provide students with functional knowledge in clinical laboratory medicine, radiological imaging and other diagnostic modalities used for diagnosing, treating, and managing patients. The indications, limitations, benefits, potential risks and cost effectiveness of common and frequently used diagnostic modalities are presented. Normal and abnormal findings are also covered along with their correlation to the diseases. The content in this course is synchronized with organ systems and disease topics in the Clinical Medicine I and II courses. Evidence-based problem solving activities provide students opportunities to develop skills in selection and

interpretation of diagnostic methods and findings, and apply those to the treatment and management decision-making process across the lifespan.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies.
SEMESTER: Fall 2019
COURSE TITLE: Pharmacotherapeutics I
COURSE NUMBER: PAS5560
SEMESTER CREDIT HOURS: 3 Credit Hours

PREREQUISITE(S): PAS5100 Applied
Anatomy PAS5200
Foundations of
Medicine
PAS5344 Professional and Health Policy
Issues I PAS5325 Patient Care I

COURSE DESCRIPTION:

Pharmacotherapeutics I is the study of the therapeutic uses and effects of drugs. This lecture based course introduces students to general principles and the concepts of Pharmacotherapeutics and drug product selection, including issues of efficacy, potential toxicities, compliance, monitoring parameters, drug interactions, and cost. Pharmacotherapeutics I runs concurrently with Clinical Medicine I and Clinical Medicine II courses and focuses on the therapeutics associated with disease states presented in those respective courses. This course presents a rational and evidence-based approach to the selection of prescribed medications, including medications used in the treatment of acute and chronic illnesses across the lifespan. Additionally, the student learns mechanisms of drug action in different therapeutic classes, dosage forms and dose-response relationships, common side effects of prototypic drugs in each category, drug side effects, adverse reactions and interactions for the commonly prescribed medications in the diseases and conditions in Clinical Medicine I and II. This course also utilizes a case study format using patient scenarios to develop clinical pharmacotherapeutic knowledge. In addition, this course examines legal and professional issues in prescribing.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
SEMESTER: Fall
COURSE TITLE: Professional and Health Policy II
COURSE NUMBER: PAS 5454
SEMESTER CREDIT HOURS: 2 credit hours

PREREQUISITE(S): PAS5344

COURSE DESCRIPTION:

Professional and Health Policy (I-III) is a course which spans all three (3) first-year semesters. It is a lecture and small group course which focuses on practical principles related to medical ethics and

professionalism, cultural awareness and bias, health care delivery and policy issues, behavior change principles, inter-professional practice, evidence-based medicine, Food As Medicine, the opioid epidemic and public health as they relate to the role and responsibilities of a Physician Assistant.

Professional and Health Policy II begins with an introduction to research, exploration of the evidence-based medicine process and clinical practice guidelines. The course continues to explore professional, legal and ethical issues from the Physician Assistant perspective through practical application. There is exposure to inter-professional practice through multiple inter-professional activities. The course continues to build on knowledge gained in PHP I regarding the US health care system and its delivery. PHP II introduces the theory of behavior change and application to module(s) in Clinical Medicine I.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
TERM OR SEMESTER: Fall
COURSE TITLE: Patient Care II
COURSE NUMBER: PAS 5425
SEMESTER CREDIT HOURS: 3 Credit Hours

PREREQUISITE(S): PAS5100 Applied Anatomy
PAS5200 Foundations of Medicine
PAS 5344 Professional and Health Policy Issues I
PAS5325 Patient Care I

COURSE DESCRIPTION:

This lecture and small group course is designed to provide the student with opportunities to use their previous and ongoing fund of knowledge and skills and apply those to case-based patient scenarios. It is designed to teach and foster sound clinical decision-making using evidence-based practices, problem-based learning through case studies. The focus of this interactive course experience is the medical history, physical examination, clinical reasoning, laboratory evaluation, diagnosis, patient education and counseling for common problems encountered in primary care practice. In addition, the course stresses practice and implementation of humanistic techniques and approaches. The cases presented correlates with the disease states covered in Clinical Medicine I & II, Diagnostic Skills I course and Pharmacotherapeutics I.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
TERM OR SEMESTER: Spring
COURSE TITLE: Clinical Medicine III
COURSE NUMBER: PAS 5643
SEMESTER CREDIT HOURS: 5 Credit Hours

PREREQUISITE(S): PAS5100 Applied
Anatomy PAS5200

Foundations of
Medicine
PAS 5344 Professional and Health Policy Issues I
PAS 5454 Professional and Health Policy Issues II
PAS 5533 Clinical Medicine I
PAS5523 Clinical Medicine II
PAS5620 Diagnostic Skills
I
PAS5325 Patient Care I
PAS 5425 Patient Care II
PAS5560
Pharmacotherapeutics I

COURSE DESCRIPTION:

The two-semester Clinical Medicine (I-IV) course sequence is the cornerstone of the curriculum. This lecture-based course series provides physician assistant students with instruction in epidemiology, physiology, pathophysiology and the clinical presentation of diseases commonly encountered in primary care medicine. It also includes the diagnostic studies and findings needed to make a diagnosis as well as the management of patients from initial presentation through ongoing follow-up in a patient-centered model including patient education and specialty referral.

The third course of this series, *Clinical Medicine III*, builds upon the knowledge attained in first and second semester PA Program courses and applies it to the recognition, evaluation, treatment and management of common clinical conditions and diseases in the following organ systems:

Urologic
Neurologic
Infectious Diseases
Gynecologic
Obstetrics
Endocrine
Gastrointestinal/Nutritional

Lectures present the most common clinical conditions (acute and chronic) seen by primary care providers. The course incorporates healthy lifestyle practices and preventive medicine to promote health and reduce the risk of patient illness, injury and premature death. Preventive measures include the identification of risks factors, disease screening, substance abuse, domestic violence, immunization against communicable diseases and promotion of safety practices. Where applicable, genetic mechanisms in health and disease will be integrated into each system, including parameters used to determine appropriate genetic risk factors, need for genetic testing and referral to genetic counselors.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
TERM OR SEMESTER: Spring
COURSE TITLE: Clinical Medicine IV
COURSE NUMBER: PAS 5653

SEMESTER CREDIT HOURS: 5 Credit Hours

PREREQUISITE(S): PAS5100 Applied Anatomy PAS5200 Foundations of Medicine
PAS 5344 Professional and Health Policy Issues I
PAS 5454 Professional and Health Policy Issues II
PAS 5533 Clinical Medicine I
PAS 5523 Clinical Medicine II
PAS 5643 Clinical Medicine III
PAS5620 Diagnostic Skills I
PAS5325 Patient Care I
PAS 5425 Patient Care II
PAS5560 Pharmacotherapeutics I

COURSE DESCRIPTION:

The two-semester Clinical Medicine (I-IV) course sequence is the cornerstone of the curriculum. This lecture-based course series provides physician assistant students with instruction in epidemiology, physiology, pathophysiology and the clinical presentation of diseases commonly encountered in primary care medicine. It also includes the diagnostic studies and findings needed to make a diagnosis as well as the management of patients from initial presentation through ongoing follow-up in a patient-centered model including patient education and specialty referral.

The fourth course of this series, *Clinical Medicine IV*, builds upon the knowledge attained in first and second semester PA Program courses and applies it to the recognition, evaluation, treatment and management of common clinical conditions and diseases in the following organ systems:

- Pediatrics
- Geriatrics
- Surgery
- Emergency Medicine

Lectures present the most common clinical conditions (acute and chronic) seen by primary care providers. The course incorporates healthy lifestyle practices and preventive medicine to promote health and reduce the risk of patient illness, injury and premature death. Preventive measures include the identification of risks factors, disease screening, substance abuse, domestic violence, immunization against communicable diseases and promotion of safety practices. Where applicable, genetic mechanisms in health and disease will be integrated into each system, including parameters used to determine appropriate genetic risk factors, need for genetic testing and referral to genetic counselors.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
SEMESTER: Spring
COURSE TITLE: Diagnostic Skills II
COURSE NUMBER: PAS5632
SEMESTER CREDIT HOURS: 3 Credit Hours

PREREQUISITE(S): PAS5100 Applied Anatomy
PAS5200 Foundations of Medicine
PAS5454 Professional and Health Policy II
PAS5425 Patient Care II
PAS5620 Diagnostic Skills I
PAS5560 Pharmacotherapeutics I
PAS5523 Clinical Medicine I
PAS5533 Clinical Medicine II

COURSE DESCRIPTION:

This lecture, small group, and laboratory-based course is designed to provide students with functional knowledge in clinical laboratory medicine, radiological imaging, screening instruments and other diagnostic modalities used for diagnosing, treating, and managing patients. The course covers indications, limitations, benefits, potential risks, and cost effectiveness of common and frequently used diagnostic modalities. The course content also includes normal and abnormal findings along with their correlation to disease and conditions commonly encountered in primary care across the lifespan. This course is synchronized with the organ systems, conditions and disease topics in the Clinical Medicine III & IV, and Pharmacotherapeutics II courses. Evidence-based problem-solving activities provide students with the opportunity and practice needed to develop their skills in selection and interpretation of the diagnostic tests and findings and to apply those to the treatment and management decision-making process.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant
Studies **SEMESTER:** Spring
COURSE TITLE: Pharmacotherapeutics II
COURSE NUMBER: PAS5570
SEMESTER CREDIT HOURS: 4 Credit Hours

PREREQUISITE(S): PAS5100 Applied Anatomy
PAS5200 Foundations of Medicine
PAS5454 Professional and Health Policy II
PAS5425 Patient Care II
PAS5620 Diagnostic Skills I
PAS5560 Pharmacotherapeutics I
PAS5523 Clinical Medicine I
PAS5533 Clinical Medicine II

COURSE DESCRIPTION:

Pharmacotherapeutics II builds on Pharmacotherapeutics I (PAS5560) on the therapeutic uses and effects of drugs used in conditions, diseases and disease prevention. This lecture-based, small group and case study-based learning course introduces and refines student knowledge of general principles and concepts of Pharmacotherapeutics, including drug selection, indications, contraindications, efficacy, potential toxicities, compliance, therapeutic monitoring, drug interactions and cost effectiveness. Pharmacotherapeutics II runs concurrently with the Clinical Medicine III (PAS5643) and Clinical Medicine IV (PAS

5653) focusing on therapeutics associated with conditions and diseases presented in those courses. Pharmacotherapeutics II provides an evidence based approach to the selection and prescribing of medications used in the treatment of acute and chronic illnesses across the lifespan. The course also focuses on the application of pharmacotherapeutic principles in patient care situations with a focus on the mechanisms of action, dosage forms, dose-response relationships, common side effects, adverse reactions, and interactions of commonly prescribed medications. In addition, this course examines legal and professional issues in prescribing medications across the lifespan.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
TERM OR SEMESTER: Spring
COURSE TITLE: Patient Care III
COURSE NUMBER: PAS 5735
SEMESTER CREDIT HOURS: 7 Credit Hours

PREREQUISITE(S): PAS5100 Applied Anatomy
PAS5200 Foundations of Medicine
PAS 5344 Professional and Health Policy Issues I
PAS 5454 Professional and Health Policy Issues II
PAS 5533 Clinical Medicine I
PAS5523 Clinical Medicine II
PAS5620 Diagnostic Skills I
PAS5325 Patient Care I
PAS 5425 Patient Care II
PAS5560 Pharmacotherapeutics I

COURSE DESCRIPTION:

This lecture and small group course is designed to provide the student with opportunities to use their previous and ongoing fund of knowledge and skills and apply those to case-based patient scenarios. It is designed to teach and foster sound clinical decision-making using evidence-based practices, problem-based learning through case studies. The focus of this interactive course experience is the medical history, physical examination, clinical reasoning, laboratory evaluation, diagnosis and patient education and counseling for common problems encountered in primary care practice. In addition, the course stresses practice and implementation of humanistic techniques and approaches. The cases presented follow those disease states covered in Clinical Medicine III & IV, Diagnostic Skills II and Pharmacotherapeutics II.

SCHOOL/COLLEGE: College of Health and Wellness
DEPARTMENT NAME: Center for Physician Assistant Studies
SEMESTER: Spring
COURSE TITLE: Professional and Health Policy III
COURSE NUMBER: PAS 5464
SEMESTER CREDIT HOURS: 2.5 credit hours

PREREQUISITE(S):

PAS5344

PAS5454

COURSE DESCRIPTION:

Professional and Health Policy Issues (I-III) is a course which spans all three (3) first-year semesters. It is a lecture and small group course which focuses on practical principles related to medical ethics and professionalism, cultural awareness and bias, health care delivery and policy issues, behavior change principles, inter-professional practice, evidence-based medicine, Food As Medicine, the opioid epidemic and public health as they relate to the role and responsibilities of a Physician Assistant.

Professional and Health Policy Issues III continues with topics such as the theory and practice of behavior change, integrative medicine, medical ethics, food as medicine, professional practice, health policy and public health issues, human sexuality and death and dying. Students continue to explore the process and application of evidence based medicine through critical appraisal of the literature.
