

Associate Degree in Nursing Course Descriptions

General Education Courses

Course Title – AP 201 Human Anatomy and Physiology and Lab I

Prerequisite: none. *The course will include lab*

Course Description - Theory: This course introduces the learner to the structure of the body. The course will cover anatomical directions, geometric planes, and cavities of the body. Learners will learn the chemical basis of life, cellular metabolism, and the different types of organic and inorganic substances necessary for life. Included in this course are the different types of tissues that comprise the human body. Learners will address the structure and function of the integumentary, skeletal, muscular, nervous and endocrine systems, including pathology of each system.

Course Description - Lab: The laboratory component of the course parallels and reinforces lecture concepts. The lab course will use a lab-based systems approach, with integration of the structure of the tissue, and organ systems of the human body. The lab study materials will include a microscope, slide library of human and animal tissues, animal tissue for dissection, skeletons, anatomical models, and video clips of human cadaver dissections. All learners will receive an individual eScience lab kit.

Course Title – AP 202 Human Anatomy and Physiology and Lab II

Prerequisite: none. *The course will include lab*

Course Description - Theory: In this course, learners will learn the structure and function of the blood, cardiovascular, Immune and lymphatic systems of the human body. Also, the structure and function of the respiratory, digestive, urinary, and reproductive systems will be studied, including pathology of each system. Learners will be introduced to the study of pregnancy, and growth and development. Learners will discuss nutrition and metabolism, pH, and water/electrolyte balance.

Course Description - Lab: The laboratory component of the course parallels and reinforces lecture concepts. The lab course will use a lab-based systems approach, with integration of the structure of the tissue, organ and organ systems of the human body. The lab study materials will include a microscope slide library of human and animal tissues, animal tissue for dissection, skeletons, anatomical models, and video film clips of human cadaver dissections. All learners will receive an individual eScience lab kit.

Course Title – PSY 101 Introduction to Physiology

Prerequisite: none.

Course Description: This is a general overview course focusing on the scientific study of both the behavioral and mental processes of human beings. This course introduces the learner to: the history of psychology and scientific thought, the biological basis of behavior, research methodology and statistics, sensation and perception, states of consciousness, memory, language, intelligence, developmental psychology, personality, learning patterns, biological and developmental processes, motivation and emotion, stress, psychopathology, and social behaviors. The course will discuss core skills needed for developing emotional intelligence.

Course Title – BIO 201 Microbiology and Lab

Prerequisite: none. *The course will include lab*

Course Description - Theory: This is an introductory microbiology course that will cover the basic principles of microbial growth and metabolism, cellular morphology and structure, taxonomy, pathogenicity, immunity, and control. The course will focus on human diseases caused by microorganisms.

Course Description - Lab: The laboratory component of the course parallels and reinforces lecture concepts. The lab course will use a lab-based systems approach, with a focus on studying microbiological techniques that will be useful for understanding microbiology in a medical context. Topics covered will be microscopy, staining techniques, culturing bacteria, measuring microbial growth, use of selective media, and understanding the basics of microbes in food, and microbial genetics.

Course Title – STAT 201 Statistics

Prerequisite: none.

Course Description: This course teaches key principles that guide proper data collection and analysis using both statistical tools of computation and visualization. Learners will collect data using various sampling techniques, calculate key statistical measures, and create visualization of data - all to generate insight. This class places an emphasis on understanding both theory and practical application, including weekly case studies analyzing real-life examples of how statistics is used in the world today.

Course Title – PSY 202 Psychology: Human Growth and Development

Prerequisite: none.

Course Description: This course provides an engaging look at human development across the life-span, specifically the physical, cognitive, and socioemotional processes that are experienced through life's events. Engaging the conceptual model of Maslow's Hierarchy of Needs will assist learners in understanding the basic needs of human beings throughout their life-span.

Course Title – WCOM 110 Written Communication

Prerequisite: none.

Course Description: In this course, learners will learn the different applications of written communications including the mastery of grammar, punctuation, and writing mechanics. Learners will master the writing process as an effective way to write necessary workplace communication correspondence.

Course Title - OCOM110 Oral Communication

Prerequisite: none.

Course Description: This course is designed to empower students to speak effectively in a public forum. Students will learn public speaking contexts, topic selection, audience analysis and ethical communication. Students will practice organizing and outlining ideas, constructing introductions and conclusions, and utilizing presentational aids. Students will deliver speeches in this class.

Course Title – SOC 101 Introduction to Sociology

Prerequisite: none

Course Description: Sociology is designed to introduce learners to the study of society. Sociology focuses on the systematic understanding of social interaction across all cultures, social organization, social institutions, and social change. The course highlights the social basis of everyday life. Sociology develops critical thinking by revealing the social structures and processes that shape cultural norms. Students will understand how people interact given the diversity of their backgrounds. Learners will be introduced to major concepts, theories, scholars, subfields, and research results of this very rich and diverse social science discipline.

Nursing Courses

Course Title - NURS 100 Fundamentals of Nursing and Clinical

Prerequisite: none. This course is a set of two co-requisite courses for 11.5 credit units. *The course will include lab and/or clinical hours.*

Course Description: The learner will understand fundamentals of nursing. The course helps learners develop nursing process competencies to meet the essential needs of individuals throughout the life span. Learners will use a safe, legal and ethical approach, and learn concepts and theories basic to the art and science of nursing. The learner will incorporate Maslow's Hierarchy of needs model to utilize nursing process and critical thinking skills. They will manage comfort, pain, sleep, rest and psychological needs along with the family unit. Learners will be required to take responsibility for their education as a nursing professional. Learners will be taught knowledge, skills, and abilities necessary to function in accordance with the Nursing Scope of Practice. Learners will understand the fundamental competency requirements to become a Registered Nurse.

Fundamentals of Nursing Clinical. The learner will complete laboratory and clinical hours to learn basic fundamentals of nursing care using the nursing process and clinical reasoning to meet their client needs. The learner will learn how to perform therapeutic communication, learn to develop the nurse client relationship, establish trust with the patient, prioritize patient safety. Learners will demonstrate basic care of bedmaking, personal hygiene, pulse, respiration, blood pressure, physical assessment of the incoming patient, and establishing basics of patient care in the nursing process. Learners will implement Neuman's Conceptual Model including Assessment, Diagnosis, and Outcomes. Learners will assess evidence-based nursing interventions as appropriate for managing the acute and chronic care of patients and promoting health across the lifespan.

Course Title-NURS 255 Pharmacology

Prerequisite: completion of AP 201 and AP 202

Course Description: The course focuses on basic drug classification, concepts, safe administration, contra-indications, interaction with other drugs, and a safety assessment/analysis for all drug administration. *Learners will learn to consider all safety ramifications of drug administration with safety certification upon successful completion of the course.* This course provides the foundation of basic pharmacology and math skills related to pharmacology, including the metric system, with emphasis on clinical application related to pediatric and adult drug administration. The course also focuses on nursing process and priority of needs special consideration to the physiological, psychosocial, cultural and spiritual needs of patient/client's effective drug therapy by disease and diagnosis. Learners will learn how to observe and monitor patients for specific drug actions and side effects. Clinical application of Pharmacology will be included in the lab portion of NURS 100 Fundamentals of Nursing and Clinical which will be taught concurrently.

Course Title - NURS 110 Beginning Medical Surgical and Clinical

Nursing Prerequisite: completion of NURS 100 with a passing grade of 75 percent or better. This course is a set of two co-requisite courses for 11.5 credit units. *The course will include lab and/or clinical hours.*

Course Description: The learner will begin learning nursing care for the adult and geriatric patients/clients with medical-surgical conditions. This course prepares the learner by focusing on nursing concepts and clinical trends. A pathophysiology review and types of surgery and how to manage the total patient care will be presented. The learner will learn roles and responsibilities of the developing nurse in planning and delivering evidence-based patient/client care using the nursing process. Neuman's conceptual model of assessment, diagnosis, nursing outcomes will be implemented throughout the course.

Beginning Medical Surgical Nursing Clinical. The learner will complete laboratory and clinical hours to provide safe and competent care for the adult and geriatric clients with medical and/or surgical conditions. Learners will understand and perform nursing safety policies and procedures. Learners will discuss case studies, pathology review, types of surgery, and the importance of managing the total patient/client using Neuman's concepts. Knowledge of pre-op, interoperative, and post-op care will be demonstrated in a clinical setting. Learners will adhere to the ethical, legal, and professional concepts of nursing.

Course Title - NURS 146 Gerontology

Prerequisite: completion of NURS 100 with a passing grade of 75 percent or better.

Course Description: This course provides an understanding of the nursing care for the aging population. The learner will apply health assessment skills to address the common physical changes of aging and the needs of older adult patients/clients. This course will focus on the cultural, spiritual, pharmacokinetics, and communication needs and care of aging clients. Learners will understand the psychiatric evaluation of the aging patient including dementia and end of life/palliative care. Rehabilitation concepts of care and acute, long term care and family care will also be addressed in this course. *Clinical application of Gerontology will be included in the lab portion of NURS 110 Beginning Medical Surgical and Clinical which will be taught concurrently.*

Course Title – NURS 130 Intermediate Medical Surgical Nursing and Clinical

Prerequisite: completion of NURS 110 with a passing grade of 75 percent or better. This course is a set of two co-requisite courses for 9.5 credit units. *The course will include lab and/or clinical hours.*

Course Description: This course is a continuation of the NURS 110 Beginning Medical Surgical and Clinical course. The learner will learn nursing concepts related to surgical pre-operative and post-operative care. The following subjects will be covered: critical care, emergency care, disaster nursing, orthopedic care, reproductive care, stroke care, neurological care, cardiovascular care, respiratory assessment, acute abdominal care, cancer care, urinary tract assessment, along with other acute and chronic illnesses associated with pre and post-operative outcomes and the nursing process. The learner will apply roles and responsibilities of the developing nurse, collaborating with the healthcare team to plan and deliver evidence-based care using the nursing process and following Neuman's conceptual model.

Intermediate Medical Surgical Nursing Clinical. The learner will complete laboratory and clinical hours to provide safe and competent care for the adult and geriatric clients with chronic illnesses. Learners will focus on data based clinical assessment as appropriate for the surgical procedure performed and following Neuman's conceptual model. Executing clinical skills related to the post-operative care of the patient. Learners apply sound nursing judgment to nursing situations using standards of care, critical thinking, clinical reasoning, and evidence-based practice. Learners will also apply a range of knowledge to promote health and well-being and prevent complications in adults experiencing illness and disease. Learners will apply the nursing process to patient learning needs.

Course Title - NURS 120 Mental Health and Psychiatric Nursing and Clinical

Prerequisite: completion of NURS 110 with a passing grade of 75 percent or better. This course is a set of two co-requisite courses for 8.0 credit units. *The course will include lab and/or clinical hours.*

Course Description: The learner will learn introduction to concepts of mental health illnesses and biological and physiological personality development. The course will cover mental health and psychiatric diagnoses and interventions including pharmacotherapeutics. Implications for clients who experience biological, changes in response to environmental events affecting mental health, neuro chemical and endocrine influences on the psychiatric illness. Diagnostic testing and procedures used to detect alterations in biological functions. Caring of clients with psychiatric disorders, substance use disorders addiction, psychiatric disorders, Depression, Bipolar, Anxiety, Compulsion Disorders. Traumatic and stress

related issues, eating disorders, personality normal and abnormal trait disorders. Special population, children and adolescents' survivors of abuse or neglect. Aging population community, Mental Health bereaved individuals, military and family's PTSD. Ethical and legal issues intervening in crisis. The recovery model, complimentary therapies, the spectrum autistic disorders, depressive disorders, gender dysphoria, human sexuality normal and other related issues. Learners will present research performed through the Learning Resource Systems regarding different neurotic conditions.

Mental Health and Psychiatric Nursing Clinical. The required clinical hours may be completed in either an inpatient/client or outpatient/client settings, or both. Learners will complete some independent hours (with approval) to meet their clinical course objectives. Learners will apply Neuman's conceptual model of stress adaptation and observe all nursing process behaviors from clinical faculty. The format of the clinical curriculum is concept based. Faculty will use the flipped classroom approach using ATI's real-life clinical scenarios. Learners will be required to complete a weekly assignment during clinical, topics include psychopharmacological drug administration, neurotic and psychotic behavior, crisis intervention, assertive training, training regarding abuse and neglect, substance abuse, and addictive disorders. The psychosocial components of Neuman's conceptual model will be integrated with all assignments.

Course Title - NURS 140 Arts and Science of Nursing – Maternal Health and Clinical

Prerequisite: completion of NURS 120 and NURS 130 with a passing grade of 75 percent or better. The course is a set of two co-requisite courses for 5.0 credit units. *The course will include lab and/or clinical hours.*

Course Description: The learner will learn the art and science of nursing for the maternal and newborn care. The course focus on maternal care for clients in the antepartum, intrapartum, and postpartum nursing assessment, physiological conception, and the alterations that occur during pregnancy. Culture and childbearing families with review of anatomy and physiology from conception and fetal development. Learners will study a woman's reproductive health issues, common gynecological problems and concerns.

Arts and Science of Nursing –Maternal Health Clinical. The learner will complete laboratory and clinical hours to provide safe and competent care for the obstetrics and maternal clients. Learners will assess the risks of pregnancy, including nutritional requirements, cultural practices, and childbirth preparation applying Neuman's conceptual model and evaluation of maternal and newborn assessment and care. Learners will also participate in sixteen hours of ultrasound guided obstetric evaluation. Learners will engage with nursing simulators to identify the stages of labor and delivery.

Course Title - NURS 150 Arts and Science of Nursing - Pediatrics and Clinical

Prerequisite: completion of NURS 120 and NURS 130 with a passing grade of 75 percent or better. This course is a set of two co-requisite courses for 5.0 credit units. *The course will include lab and/or clinical hours.*

Course Description: The student will learn the foundations of pediatric nursing with factors influencing child health review of growth and development from infant to adolescent, including atraumatic care, principles and concepts. Using Neuman's conceptual model, learners will address trauma prevention and how to minimize stress for children and families, attempting to attain balance on the health-illness continuum. Students will learn the foundations of family centered care, therapeutic communication, healthy/unhealthy environments, and health teaching to children. Health assessment for children of all ages, including those with special needs and children in diverse settings. Learners will demonstrate key pediatric nursing interventions and pain management in children of all ages. Learners will acquire knowledge of all pediatric health disorders.

Arts and Science of Nursing –Pediatrics Clinical The learner will complete laboratory and clinical hours to provide safe and competent care for pediatric clients. In the clinical skills setting, the learner will demonstrate nutritional screening, prevention of unsafe environments (child proofing), assessing physiological presentation of congenital abnormalities, presentations and assessment of diseases during the child growth and development process. Learners will become proficient in vaccination scheduling and immunization records for children.

Course Title - NURS 170 Advanced Medical Surgical Nursing (Critical Care) and Clinical

Prerequisite: completion of NURS 140 and NURS 150 with a passing grade of 75 percent or better. This course is a set of two co-requisite courses for 8.0 credit units. *The course will include lab and/or clinical hours.*

Course Description: The learner will learn advanced nursing care for the critically ill adult and geriatric clients. This course is a continuation of prior medical surgical nursing courses. The learner will apply roles and responsibilities of the developing nurse, collaborating with the healthcare team to plan and deliver evidence-based care using the nursing process. The learner will address concepts related to the care of patient/clients across the life span with multi-system failure and other critical care conditions in local health care facilities and management with infectious and inflammatory system disorders and chronic pulmonary cardiac disease. This course covers emergency nursing. Learners will learn concepts related to patient care across the life span with multi-system failure, management of infectious and inflammatory system disorders, chronic pulmonary cardiac diseases, and critical conditions.

Advanced Medical Surgical Nursing Clinical. The learner will complete laboratory and clinical hours to provide safe and competent care for the adult and geriatric clients with chronic illnesses. Learners will cover professional practice issues and special populations in critical care, rapid response teams and disaster management (emergency). Learners will learn all body systems and evaluate any abnormal conditions for nursing assessment. Learners will analyze conditions and management of all body systems and multisystem dysfunction (shock, trauma, overdose, and poisoning). Learners will demonstrate the impact of utilizing evidence-based practice and collaborate practice on the care of critically ill clients. Learners will also employ Neuman’s conceptual model relating to lifestyle recommendations with the goal of attaining balance on the health-illness continuum. Learners will understand legal requirements of end-of-life care. The clinical workflow will involve integrating clinical screening tools and competencies into each clinical setting to develop clinical decisions and treatment options.

Course Title - NURS 105 Communication in Health Care

Prerequisite: completion of NURS 100 with a passing grade of 75 percent or better.

Course Description: The learner will learn professional communication and leadership for the healthcare professional. This course will focus on self-reflection, communication styles, and how to interact as a healthcare professional. This course focuses on self-reflection, different communication styles, and how to effectively interact in a professional healthcare environment, including both verbal and nonverbal communication. This course will help learners develop a conscious style of communicating with patients and healthcare providers to improve health outcomes and improve patient satisfaction.

Course Title - NURS 180 Role Transition to Professional Nursing and Clinical

Prerequisite: completion of NURS 170 with a passing grade of 75 percent or better. This course is a set of two co-requisite courses for 10.0 credit units. *The course will include clinical hours.*

Course Description: This course emphasizes the synthesis of the application of the nursing process, with medication administration, nursing skills, client teaching, communication skills, legal and ethical responsibilities, professional trends and issues, accountability, organization and time management skills, leadership and management skills, collaboration with members of the interdisciplinary healthcare team and theories. Care for patient/client with acute geriatric dysfunctions is

included. Concepts are expanded to include professional issues in nursing, critical thinking, legal-ethical issues, quality improvement, managing a group of patients and role transition. Emphasis is placed on the application of knowledge, skills and attitudes needed for the entry level registered nurse within the scope of nursing practice. Experience is gained in the acute care settings managing multiple clients with rapidly changing and complex health care needs and their families. This course will facilitate the learner's transition into an entry-level position as a graduate nurse.

Role Transition to Professional Nursing Clinical This course will provide the learner with the experiential learning environment under the supervision of an RN to utilize the nursing process while delivering safe and competent care.

Course Title – NURS 252 Leadership and Ethics in Nursing

Prerequisite: completion of NURS 105 and NURS 170 with a passing grade of 75 percent or better.

Course Description: This course is designed to provide new graduates with the information they need to become effective managers and leaders in healthcare. The learner will study the synthesis of the application of the Registered Nurse scope of practice and Code of Ethics. This course will include the art and science of leadership and management, interpersonal communication, legal and ethical responsibilities, professional trends and issues, accountability, organization and time management skills, collaboration with members of the interprofessional healthcare team and theories. Concepts include professional issues in nursing, critical thinking, legal-ethical issues, quality improvement, managing a group of clients and the role transition from learner to the graduate nurse. Emphasis is placed on the application of knowledge, skills and attitudes needed for the entry level registered nurse within their scope of nursing practice. The transitional nurse will assume clinical assignments to learn how to care for patients but also be responsible and productive team member. Learners will learn to become leaders by making sound clinical decisions and learning from their mistakes.