



Jinan University of Lebanon

Faculty of Public Health



**Course Descriptions for the Undergraduate Nursing Sciences Program
2014/2015**

Remedial Courses

BIO100 Introduction to Biology

This course is designed to introduce freshman students to key biological concepts that is fundamental to animal biology. The topics include: biological history; structure and function of cells; cell division; reproduction; respiration; nervous system; immune system; genetics and heredity of population; protein synthesis and evolution.

University Required Courses

ADM105 Introduction to Information Technology

Topics include the Internet; computer hardware; operating systems and application software; multimedia; network communication; personal, social, and ethical issues. Systems and application software; multimedia; network communication; personal, social, and ethical issues.

LIT105 Arabic Civilization

This course introduces the overall concepts of civilization and the most important factors that contributed to the emergence of Islamic civilization. It also encompasses the main characteristics of the Islamic civilization with particular focus on the human dimension. Manifestations of Islamic civilization in policy, management, economy, society, and sciences are emphasized; topics discussed include: the Caliphate, the Ministry, the Emirate, tax calculations, the judiciary, the mandate of grievances, the police, government bureaus, the treasury, mail department, the army, the navy, women's rights and contributions, intellectual life, sciences, technological manifestations, and others. The impact of Islamic civilization in the European Renaissance and the reasons for the decline of civilization and ways to address them are also discussed.

LIT110 Arabic Language I

The primary aim of this course is to familiarize the students with correct writing styles, to avoid linguistic and spelling errors, to use proper punctuations, and to master various correspondence styles. The course also discusses the main principles of Arabic grammar through selected texts, spelling rules, writing paragraphs about subjects related to the selected texts, summary techniques, punctuations, rules of number spelling, common linguistic errors, titles, Curriculum Vitae editing techniques, methods of writing minutes of meetings, and administrative correspondences.

LIT113 Research Methodology I

This course aims at the development of a scientific orientation in the solution of educational problems. This course develops students' skills in identifying and developing research problems dealing with a variety of research designs. Basic statistical concepts are included.



LIT114 Research Methodology II

This course aims to cover what the activity of research is, how to proceed, how to measure progress, and what constitutes success. Students must understand the research process and the rules that guide it. It provides students an overview of qualitative and quantitative methods, data collection, recording and analysis and final output of a research proposal. It also provides students with tools to look at things objectively, develop critical and scientific attitude, as well as disciplined thinking to observe objectively and finally, skills of research particularly in the age of information. By the end of this module students should be in a position to prepare and carry out a small research proposal within a three month project.

LIT120 English Language I (or French Language I)

This is a study skills course that aims at developing potential teacher's proficiency in the skills of test taking, studying, word attacking, paraphrasing, restating and handwriting.

LIT125 English Language II (or French Language II)

This course aims at helping potential teachers extend their knowledge of vocabulary and grammar, as well as develop their oral/aural language proficiency through watching videos, conducting role-plays, simulations, and interviews, as well as presenting reading materials (of various sources: the internet, newspapers, magazines, and so on).

Faculty and Major Required Courses

MSA122 Psychiatry and Mental Health

The course presents psychiatric principles that are fundamental to practice for health care providers. It will help the student apply these principles to specific clinical disorders and describe the modalities of psychiatric treatment in hospital and community based settings.

NURS103 Introduction to ethics

This course focuses on exploring values, codes and principles that govern ethical decisions in professional practice within nursing care settings. Particular emphasis is given to the resolution of ethical dilemmas through ethical reasoning and ethical obligations in health professional patient relationships. Case studies of potential and actual ethical issues and dilemmas arising in nursing practice are analyzed using the intellectual standards of critical thinking in a framework of ethical decision making.

NURS107 Biophysics and Medical Technology

This course will introduce the field of biological physics by examining living systems quantitatively. The course is intended to train a broad student audience in mathematical and physical modeling of biological systems. Emphasis will be given to understanding the techniques and instrumentation used to investigate biological systems, including membranes, nerves, and muscle. This course will also serve as an introduction to biotechnology.



NURS117 Anatomy and Physiology I

This course will provide a superficial yet sufficient view over the anatomy and physiology of human body. It will cover the thorax, cardiovascular, gastrointestinal, endocrine, genitourinary systems.. It will grossly pinpoint the location and function of any organ or tissue within human corps, relate the function of organs to major pathologies the nurse might be faced with during his practice

NURS122 General Microbiology

In this course, microbiological principles related to the morphology, metabolism, genetics, classification, and ecology of bacteria are emphasized. Characterization of viruses and eukaryotic microorganisms, and applications of microbiology are also covered. Content on human disease includes characteristics of pathogens, immunology, and epidemiology.

NURS143 Practicum I

This course is designed to train suitably qualified first year student nurses mainly in X-ray department, Laboratory Department and medical surgical floors. This will be done after the completion of the basic nursing courses such as Fundamentals of Nursing Practice, Foundation of Nursing Practice, Medical Terminology, Pharmacology I and Introduction to nursing ethics. The students are supposed to take care of patients through performing basic nursing skills depending on commonly utilized standards of care within a hospital based environment.

NURS153 Organic Chemistry

Organic Chemistry is a course that provides knowledge on the structure and chemistry of various functional groups such as: alkanes, cycloalkanes, alkenes, alkynes and alcohols. It emphasizes the structure/properties relationship and the practical aspects of organic chemistry in numerous health and daily life related situations.

NURS155 Anatomy and Physiology II

This course will provide a superficial yet sufficient view over the anatomy and physiology of human body. It is complementary for Nurs 116; hence, covering the aspects not dealt with in Nurs 116. Major systems such as central nervous system, musculoskeletal, and renal systems are covered in this course. The course will grossly help the student pinpoint the location and function of any organ or tissue within human corps, relate the function of organs to major pathologies the nurse might be faced with during his practice.

NURS166 Foundations of Nursing Profession

This course introduces the student to the main theories, concepts, principles and processes that are basic to the nursing practice.

NURS171 Fundamentals of Nursing

An introduction to basic nursing care concepts to provide a foundation for nursing care and subsequent nursing courses. This course facilitates the development of beginning technical competency in the application of the nursing process to assist in meeting the needs of selected patients of varying ages. The role of the professional nurse, interpersonal communication, legal and ethical considerations and basic skills will be taught. The clinical labs will include simulations and interactions with patients in hospitals.



NURS204 Cardiovascular System

This course will provide an overview of the main diseases in Cardiovascular system. In each disease, the pathophysiology, diagnosis and treatment will be discussed. In each chapter red flags for each disease will be discussed. In addition, it will provide a basic knowledge on Procedures and Techniques related to cardiovascular examination and assessment.

NURS206 Respiratory System

This course will provide an overview of the main diseases in respiratory system. In each disease, the pathophysiology, diagnosis and treatment will be discussed. In each chapter red flags for each disease will be discussed. In addition, it will provide a basic knowledge on Procedures and Techniques related to respiratory system examination and assessment.

NURS208 Cardiovascular System NC

This course provides basic overview of the anatomy and function of the human Cardiac system, and its assessment as well. Health alterations of the Cardiovascular system are also studied. The student will learn advanced principles and concepts related to the care of adults with Cardiovascular disorders. In addition, this course integrates advanced nursing concepts in caring for patients with Cardiovascular disorders and apply nursing process in specialty areas, acute care and in community settings.

NURS209 Respiratory System NC

This course provides basic overview of the anatomy and function of the Respiratory system, and its assessment as well. Health alterations related to the respiratory system are also studied. The student will learn advanced principles and concepts related to the care of adults with respiratory disorders. In addition, this course integrates advanced nursing concepts in caring for patients with respiratory disorders and applies nursing process in specialty areas, acute care and in community settings.

NURS213 Pharmacology I

This course provides an introduction to the major concepts and terminology in pharmacology, Outline the basic concepts in pharmaceutics, pharmacokinetics and pharmacodynamics, and acquaint the student with the basic pharmaceutical calculations.

NURS214 Sensorineural and Integumentary Systems

This course will cover the specialized neurological system such as the sensory organs and integumentary system anatomy and physiology. Overview the most common pathologies encountered in these systems is introduced. Relation of these pathologies to the medical issues we might encounter during practise will be also discussed during the course.

NURS218 Diagnostic Studies

This course is considered a basic course for nursing students. It provides an overview of the most common medical examination techniques and procedures such as laboratory studies and X-ray examinations done for patients inside and outside hospital settings.



NURS229 Digestive System

This course will provide an overview of the main diseases in digestive system. In each disease, the pathophysiology, diagnosis and treatment will be discussed. In each chapter red flags for each disease will be discussed. In addition, it will provide a basic knowledge on Procedures and Techniques related to gastrointestinal system examination and assessment.

NURS233 Pharmacology II

This course provides an overview of the major diseases affecting different systems of the human body and drugs utilized in the management and treatment of such diseases. In addition, It describes the mechanism of action of major drug classes and their adverse reactions.

NURS247 Hospital Organization and Administration

This course is intended to provide nursing students with the theory, knowledge, and necessary application of leadership and management principles of health care system in diverse environments. It also provides an overview of the most important contemporary issues that health care administrators deal with on daily basis.

NURS256 Practicum II

This course is designed to train suitably qualified Second year student nurses mainly in specialized medical surgical floors. This will be done after the completion of the specialized nursing courses such as Cardiovascular System Nursing Care, Respiratory System Nursing Care, Digestive System Nursing Care and other systems. The students are supposed to take care of patients through performing complex nursing skills depending on commonly utilized standards of care within a hospital based environment.

NURS257 Practicum III

This course is designed to train a suitably qualified Second year student nurses mainly in specialized medical surgical floors, Haemodialysis Unit, and Operating rooms. This will be done after the completion of the specialized nursing courses such as Cardiovascular System Nursing Care, Respiratory System Nursing Care, Digestive System Nursing Care, Renal System Nursing Care and other systems. The students are supposed to take care of patients through performing complex nursing skills depending on commonly utilized standards of care within a hospital based environment.

NURS261 Musculoskeletal System and NC

The course describes the basic function and structure of the musculoskeletal system. It also provides basic information about the nursing management, rehabilitation, and health education needs of the patients with musculoskeletal disorders. In addition, it specifies diagnostic tests and modalities used for assessment and treatment of musculoskeletal disorders consecutively.

NURS272 Endocrine System Pathology and NC

This course provides basic understanding of the anatomy and function of the endocrine system, and the assessment as well. This course will be an overview of disorders related to endocrine and metabolic systems in all patient populations. In addition, it provides the student with information, strategies and techniques of how to take care of a patient with disorders of the endocrine system.



NURS276 Digestive System NC

This course provides basic overview of the anatomy and function of the Gastrointestinal tract, and its assessment as well. Health alterations of the digestive system are also studied. The student will learn advanced principles and concepts related to the care of adults with gastrointestinal disorders. In addition, this course integrates advanced nursing concepts in caring for patients with gastrointestinal disorders and applies nursing process in specialty areas, acute care and in community settings.

NURS301 Neurology System

This course will provide an overview of the main diseases in Neurology. In each disease, the pathophysiology, diagnosis and treatment will be discussed. In each chapter red flags for each disease will be discussed. In addition, it will provide a basic knowledge on neurological exam and neuroimaging procedures and techniques.

NURS302 Geriatrics Pathology

This course introduces the students to a different type of patient population which is the Geriatric population. It highlights the main diseases that they suffer from. It also discusses the major challenges and obstacles faced by this population as well as the people taking care of them mainly health care providers.

NURS309 Practicum IV

This course is designed to train suitably qualified experienced third year student nurses mainly in specialized medical surgical floors, Paediatric wards, nursery, Labour and delivery and maternity ward. This will be done after the completion of the specialized nursing courses such as Haematology and Oncology Nursing Care, Obstetric and Gynaecology Nursing Care, Neonatal and Paediatric Nursing Care, Pharmacology II and courses related to other systems. The students are supposed to take care of patients through performing complex nursing skills competently depending on commonly utilized standards of care within a hospital based environment.

NURS314 Public Health and Community Nursing

Lebanon and many countries in the world have witnessed tremendous growth in the area of public health and community. This course will focus on the identification of health problems in specific target populations and the development of plans for community health education programs, campaigns and interventions. It will also provide students with knowledge on basic elements of public health in general and community health nursing in particular. Moreover, this course provides students with potential career path in community health education, as one of the main pillars of public health, and other related health professions.

NURS338 Neurology System NC

This course provides basic overview of the anatomy and function of the human nervous system, and its assessment as well. Health alterations of the neurological system are also studied. The student will learn advanced principles and concepts related to the care of adults with neurologic disorders. In addition, this course integrates advanced nursing concepts in caring for patients with neurologic disorders and apply nursing process in specialty areas, acute care and in community settings.



NURS354 Hematology NC and Oncology NC

This course provides the students with the proper knowledge of the nursing processes and frameworks utilized for the care of patients who are suffering from blood disorders and different types of cancer.

NURS361 Quality Management and Accreditation

This course provides an overview of the principles, practices, and application of quality systems in health care organizations. It provides the knowledge on quality improvement and accreditation processes to improve skills of future health professionals. In addition, it discusses the mechanisms for effective preparedness and implementation of accreditation standards in hospitals.

NURS364 Neonatal and Pediatric Pathology and NC

The course is designed to enable nursing student to care for the healthy as well as the sick children. It emphasizes on provision of comprehensive and competent nursing care for different age group of children and their families. Indeed, the course provides chances to deal with varieties of pediatric medical and surgical health problems.

NURS367 Hematology

This course provides the student with the knowledge about the hematopoiesis process and processes involved in hemostasis. It introduces the student to the most common blood disorders including anemias, leukemias, bleeding and thrombotic disorders, their diagnosis, and their treatment.

NURS368 Oncology

This course covers the topics related to Epidemiology of Cancer, Pathophysiology of the Malignant Process, and detection and Prevention of Cancer. It includes details about diagnosis techniques of Cancer, Tumor Staging and Grading, Management of Cancer, and nursing Care of Patients with Cancer.

NURS369 Obstetrics and Gynecology

This course provides details about the gross anatomy and physiology of the reproductive system, physiological changes that take place in a woman's body during pregnancy, describe major complications of pregnancy, and the sequence of anatomical changes experienced by the mother during the process of labor and delivery. In addition, it covers main disorders related to the female reproductive system.

NURS373 Renal System

This course will provide an overview of the main diseases that occur in the renal, urinary, and male reproductive system. In each disease, the pathophysiology, diagnosis red flags for each disease, and treatment will be discussed. In addition, it will provide a basic knowledge on Procedures and Techniques related to renal and male reproductive system examination and assessment.

NURS374 Obstetrics and Gynecology NC

This course will provide a comprehensive in depth discussion of the main facets of maternal health nursing while promoting a sensitive holistic outlook on nursing practice. It introduces the student to the basic maternity nursing care concepts. It also covers the nursing care procedures and processes related to taking care of female patients with gynecological disorders.



NURS377 Critical Care and Emergency

This course provides a comprehensive, deep, and breadth of nursing knowledge and skills used to care for the critically ill patients with the different acute and life threatening conditions and their families. It also includes information about the most commonly used critical care nursing procedures, the routine care for the most commonly inserted invasive devices, and the routine care for the most commonly used machines.

NURS378 Renal System NC

This course provides basic overview of the anatomy and function of the Renal, urinary, and male reproductive system, and its assessment as well. Health alterations related to the renal system are also studied. The student will learn advanced principles and concepts related to the care of adults with renal disorders. In addition, this course integrates advanced nursing concepts in caring for patients with renal disorders and applies nursing process in specialty areas, acute care and in community settings.

NURS381 Practicum V

This course is designed to train suitably qualified experienced third year student nurses mainly in Critical care units, and emergency departments. This will be done after the completion of the specialized nursing courses such as Critical care and Emergency Nursing Care, Pharmacology II AND all other Nursing Care Courses. The students are supposed to take care of patients through performing complex nursing skills competently depending on commonly utilized standards of care within a hospital based environment.

PHA276 Basic Nutrition

This course introduces the nutritional concepts encountered in nursing practice. It describes the science of nutrition and its use for a healthy lifestyle in all life stages. It also discusses the nutritional needs and concerns in different disease states and, accordingly, the optimal nutritional care that should be provided.

PHE133 Cell Biology for Health Sciences

This course introduces the student to the organization of living systems, energy transfer, continuity of life, biodiversity and classification of living things. The topics include: structure and functions of cells and cellular organelles, cell division, cellular respiration, photosynthesis, DNA structure and function, protein synthesis and heredity. It also includes an introduction to viruses and prokaryotes.

PHE161 Medical Terminology

This course is considered an introduction to medical terminology, designed to increase familiarity with medical terms such as basic anatomy and physiology terms. It will help the student to learn root words, and to learn how to analyze unknown words.

PHE190 Introduction to Genetics

Basic principles of classical genetics. Meiosis and chromosomal basis of Mendelian inheritance. Linkage, crossing-over and gene mapping. Sex and heredity. The genetic material. Mutations and chromosome aberrations. Pattern of inheritance. Cytoplasmic inheritance. Population genetics.



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PHE217 Immune System and Infectious Disorders

The Infectious Disease Course is designed to give an understanding of the basic biology of microbial pathogens and the mechanisms by which they cause disease. It introduces the basic methods for infectious disease epidemiology and case studies of important disease syndromes and entities. The course will also give students knowledge of the signs and symptoms of major infectious diseases and practice in developing differential diagnoses and fundamentals of treatment and prevention for these diseases.