0661111 Fundamentals of Nursing (1) Theory [2] [2-2]

Introduction To Nursing Profession; The Nature of Nursing Profession; The History of Nursing Profession; Health Care Professionals; Nurses' Roles, Caregiver, Manager, Leader, Change Agent, Educator, Researcher of Health Care; Wellness and Disease States; The Nursing Process; The Communication Skills; Critical Thinking; Safe Application of The Acquired Skills.

Prerequisite: None

0661112 Fundamentals of Nursing (2) Theory: [2] [2-2]

Introduction To Nursing Profession; The Basic Knowledge And Positive Attitudes Related To The Individual's Physiological, Psychological, and Social Needs According to The Functional Health Patterns; Assess, Plan, Implement, and Evaluate Nursing Strategies to Meet Client's Needs Utilizing The Nursing Process as A Framework; Theoretical Scientific Knowledge Regarding Different Procedures, Basic Skills in Nursing: Vital Signs, Bed Making, Basic Care, Medication Administration, Chain of Infection, Insertion of Nasogastric Tube, Insertion of Urinary Catheters, Effects of Immobilization; Wound Healing and The Prevention of Pressure Ulcers; Medical Investigations; Preparation for and Application of Different Nursing Procedures.

Prerequisite: 0661111 Fundamentals of Nursing (1)
92220 Physiology
92219 Anatomy

0661113 Fundamentals of Nursing (2) - Clinical [1] [1-4]

Introduction to Clinical Nursing; Clinical Competencies Necessary to Meet The Needs of Individuals Throughout The Lifespan In A Safe, Legal, and Ethical Manner; Application of The Nursing Knowledge and Master Basic Nursing Skills Accurately and Safely Through Practice And Return Demonstration, In A Stimulated Nursing Laboratory; Basic Skills in Nursing: Vital Signs, Medication Administration, Chain of Infection, Theoretical Scientific Knowledge Regarding Different Procedures E.G. Insertion of Nasogastric Tube, Insertion Of Urinary Catheters, Preparation For And Application of Different Nursing Procedures, Effects Of Immobilization; Wound Healing and The Prevention of Pressure Ulcers, Medical Investigations; Competencies Core Concepts of Caring, Critical Thinking, Decision-Making and Professional Commitment.

Prerequisite or Concurrent: 0661112 Fundamentals of Nursing (2) Theory
0661114 Medical Terminology [2] [2-2]

Prerequisite: 28121 English (1)

0661115 Communication Skills and Health Education [3] [3-3]
General Introduction; Theoretical Basis of Communication: Elements of Communication, Components of Communication, Types of Communication, Function of Communication in Nursing, Factors that Influence Communication, Purpose of Therapeutic Communication, Characteristics of Therapeutic Communication; Theoretical Basis of Helping Relationship: Definition of Therapeutic Relationship, Characteristics of a Therapeutic Relationship, Phases of The Therapeutic Relationship, Differences between Helping & Social Relationship; Peplau's Theory of Interpersonal Relation in Nursing; The Conceptual Components of The Therapeutic Relationship: Concept That Enhance The Development of The Therapeutic Relationships, Concepts That Hinder Development of Therapeutic Relationships; Therapeutic and Non Therapeutic (Obstructive) Communication Techniques; Theoretical Basis of Health Education; The Process of Health Education: Factors Affecting Readiness to Learn, Characteristic of Learning, Condition That Facilitate Learning, Purpose of Teaching, Approaches And Strategies, Stages of the Health Education Process, Benefits of Health Education for the Patient and Staff, Characteristics and Role of the Nurse as Educator, Barriers to Education, Obstacles to Learning; Principles of Health Education in Health Care.

Prerequisite: None

0661221 Physical Assessment / Theory :{ 2} [2-2]
Theoretical Knowledge of Comprehensive Physical Assessment to Ill and Healthy Individual; Assessment of the Whole Person; Approach to the Clinical Setting; Physical Examination of The Skin, Nails, Head, Neck, Regional Lymphatic, Eyes, Ears, Nose, Mouth, Throat, Thorax, Lungs, Heart, Neck, Vessels, Peripheral Vascular System, Lymphatic, Abdomen, Musculoskeletal System, Neurologic System.
**Prerequisite:** 0661113 Fundamentals Of Nursing 2 \ Clinical.  
92219 Anatomy

**0661222 Physical Assessment / Clinical:** {1} [1-4]  
This Course is Concurrent with the Theoretical Course of Health Assessment; Apply Theoretical Principles in the Laboratory; Evaluation of The Health Status of Healthy and Ill Individuals in both Hospitals and the Community; Assessment of the Whole Person; Approach to the Clinical Setting; Physical Examination of the Skin, Nails, Head, Neck, Including Regional Lymphatic, Eyes, Ears, Nose, Mouth, Throat, Thorax, Lungs, Heart, Neck, Vessels, Peripheral Vascular System, Lymphatic, Abdomen, Musculoskeletal System, Neurologic System.

**Concurrent:** 0661221 Health Assessments / Theory

**0661223 Adult Health Nursing (I) / Theory:** {3} [3-3]  
Introduction to Adult Health Nursing; Knowledge of Patient and Family Care Physiologic, Psychological Social Responses of the Patient with either Acute or Chronic Diseases; The Nursing Process; Providing Nursing Care Utilizing The Nursing Process as A Framework to Formulate Nursing Diagnoses and Identify Nursing Interventions Directed Towards Promoting, Maintaining and Restoring the Health of Adults and Their Families; Providing Nursing Care to Patients with: Fluid & Electrolyte Imbalance: Fluid Volume Deficit, Fluid Volume Excess, Electrolyte Imbalance: Hyper –Hyponatremia, Hypo-Hyperkalemia, Hypo-Hypercalcemia, Metabolic Alkalosis &Acidosis, Respiratory Alkalosis & Acidosis; Surgical Client: Intraoperative Care, Postoperative Care; Management of Client with Cardiovascular: Arthrosclerosis, Angina, Myocardial Infarction, Heart Failure, Hypertension; Management of Client With Respiratory Disorders: Sign & Symptom of Respiratory Disorders, Pneumonia, Asthma, Chronic Obstructive Pulmonary Disease; Management of the Clients with Endocrine Disorders: Hyperthyroidism, Hypothyroidism, Diabetes Mellitus.

**Prerequisites:** 0661113 Fundamental Of Nursing 2 \ Clinical.  
0661271 Pathophysiology  
92330 Microbiology

**Prerequisite or Concurrent:** 0661221 Health Assessments / Theory

**0661224 Adult Health Nursing (I) / Clinical:** {3} [2-12]  
Introduction to Clinical Adult Health Care; the Utilization of the Nursing Process: Assessment, Planning, Implementation of the Nursing Process Appropriate for Adults with Various Health Problems in the Acute Care Setting; Providing Care to Clients with Alteration in Health Life Patterns: Fluid & Electrolyte Imbalance: Fluid Volume Deficit, Fluid Volume Excess, Electrolyte Imbalance: Hyper –Hyponatremia, Hypo- Hyperkalemia, Hypo-Hypercalcemia, Metabolic Alkalosis & Acidosis, Respiratory Alkalosis & Acidosis; Providing Care to Surgical Client: Intraoperative Care, Postoperative Care; Providing Care to Client with Cardiovascular: Arthrosclerosis, Angina, Myocardial Infarction, Heart Failure, Hypertension; Providing Care to Client with Respiratory Disorders: Sign & Symptom of Respiratory Disorders, Pneumonia, Asthma, Chronic Obstructive Pulmonary Disease; Providing Care to the Clients with Endocrine Disorders: Hyperthyroidism, Hypothyroidism, Diabetes Mellitus.

**Prerequisite or Concurrent:** 0661222 Health Assessments / Clinical
0661225 Adult Health Nursing (II) / Theory: [3] [3-3]
Introduction to Adult Health Nursing; Knowledge of Patient and Family Care Physiologic, Psychological Social Responses of the Patient with either Acute or Chronic Diseases; The Nursing Process; Providing Nursing Care Utilizing The Nursing Process as A Framework to Formulate Nursing Diagnoses and Identify Nursing Interventions Directed towards Promoting, Maintaining And Restoring The Health of Adults and Their Families; Providing Nursing Care To Patients with: Renal, Hematologic, Nervous, Musculoskeletal and Gastrointestinal Problems; The Communication Skills with Patients, Family and Other Health Care Personnel; Applying Professional Ethics while Providing Care.

Prerequisite: 0661224 Adult Health Nursing (I) / Clinical

92350 Pharmacology

0661226 Adult Health Nursing (II) / Clinical: [3] [2-12]
Introduction to Clinical Adult Health Care; The Utilization of the Nursing Process: Assessment, Planning, Implementation of the Nursing Process Appropriate for Adults with Various Health Problems in the Acute Care Setting; Providing Care to Clients with Alteration in Health Life Patterns: Fluid & Electrolyte Imbalance: Fluid Volume Deficit, Fluid Volume Excess, Electrolyte Imbalance: Hyper –Hyponatremia , Hypo- Hyperkalemia, Hypo-Hypercalcaemia, Metabolic Alkalosis & Acidosis, Respiratory Alkalosis & Acidosis; Providing Care to Patients With Various Health Problems Such as Renal, Neurological, Musculoskeletal and other Medical Diseases.

Prerequisite: 0661223 Adult Health Nursing (I) / Theory
0661224 Adult Health Nursing (I) / Clinical
Prerequisite or Concurrent: 0661225 Adult Health Nursing (II) / Theory

0661271 Pathophysiology / Theory: [3] [3-3]
Introduction to Pathophysiology; Physiological Changes due to Internal or External Influences which May Lead to Health Problems; Disease Signs and Symptoms; Study of the Pathology; General Health Management of Diseases and Injuries Across the Life Span: The Etiology, Symptoms, The Physical and Psychological Reactions to Diseases and Injuries.

Prerequisite: 92219 Physiology

0661316 Trends & Ethics in Nursing Profession / Theory {3} [3-3]
The History of Nursing Profession; Modern Trends in Problem Solving; The Modern Trends in Nursing Services: Teaching, Development, Application; The Educational Preparation of Nurses; The Historical Development of The Nursing Profession; The Image of Nursing and Influence of The Present; Nursing Theories; Nursing Ethical Issues; Bioethical Issues; The Legal Responsibilities of Nurses; Reality Shock; Employment Consideration; Self-Care Strategies; Preceptorship and Mentorship; Nursing Informatics; Nursing Research Utilization.

Prerequisite: None

0661327 Critical Care Nursing / Theory :{3} [3-3]
Introduction To Critical Care Nursing; The Advanced Concepts of Critical Care Related to Multi-Organ System Function and Dysfunction; Core Concepts of Complex Pathophysiology; Current Treatment Modalities; Advanced Nursing Roles are Integrated in Discussions of Providing Care to Critically Ill Patients: Alteration In Cardiovascular System, Pulmonary System Dysfunction, Burn; Advanced Cardiac Life Support.

Prerequisite: 0661225 Adult Health Nursing (II) / Theory

0661328 Critical Care Nursing / Clinical: {3} [3-12]
Introduction to Critical Care Nursing in The Clinical Setting; The Application of Principles & Theories From Nursing Science, Pathophysiology, Pharmacology and Medical Technology To Provide Nursing Care for Adult Clients Experiencing Critical Health Disturbance: Advanced Nursing Roles are Utilized In Providing Care To Critically Ill Patients: Alteration in Cardiovascular System, Pulmonary System Dysfunction, Burn; Advanced Cardiac Life Support.

Prerequisite: 0661226 Adult Health Nursing (II) / Clinical

0661331 Human Growth & Development / Theory {3} [3-3]
Introduction to Human Growth and Development; The Main Concepts and Principles that are Related to the Growth and Development of Children; Adolescents; Adults and Elderly People; The Physical, Psychosocial, Cognitive Changes During the Different Age Periods; The Comprehensive and Holistic Nursing Care for Individuals in each Age Group and to Their Families; The Concept of Health Maintenance and Promotion.

Prerequisite: None

0661332 Maternal Health Nursing / Theory {3} [3-3]
Introduction to Maternal Health Nursing; Understanding the Anatomy and Physiology of the Reproductive System; Physiological and Psychological Changes During Normal Pregnancy; Health Assessment of the women in the Reproductive Age; Normal Changes Verses Abnormal Changes; Apply Nursing Care to Women in the Prenatal period; Apply Nursing Care For High Risk Pregnant Females; Physiological Changes During Labor , Mechanism Of Labor, Caring of Mothers Going Through Prolonged Labor and CS, Providing Nursing Care During Puerperium; Identifying Minor Discomforts and Complications of Postpartum Period; Counseling Mothers About Family Planning Method; Apply Comprehensive Nursing Care to Families in the Reproductive Period; Apply Comprehensive Nursing Intervention for Women With Gynecological Problems.

Prerequisites: 0661223 Adult Health Nursing (1) 0661224 Adult Nursing (1)\ Clinical 92350 Pharmacology

0661333 Maternal Health Nursing / Clinical {3} [3-12]
Introduction To Maternal Health Nursing; Nursing Theory and Skills Needed to Promote the Comfort, Health and Safety of Mother and Theory and Skills Needed to Promote and Comfort, Health And Safety of the Mother and Newborn During the Childbearing Period; The
Demonstration and Redemonstration of Different Procedure Steps Used in Care for Women in The Reproductive Period; Women with Obstetrical and Gynecological Problems; Providing Physical, Psychological, Emotional, Social, Spiritual Care for Women in the Reproductive Age within A Family Context; Providing Nursing Care to the Woman During Pregnancy; Labor; and Postpartum Periods Utilizing the Nursing Process as A Framework; Providing Immediate Care of The Newborn; Nursing Care To Women Suffering From Gynecological Problems; Participate in Providing family Planning Services and Counseling.

**Prerequisites:** 0661224 Adult Nursing (1) /Clinical

**Prerequisite or Concurrent:** 0661332 Maternal Health Nursing

0661334 Nursing Care Of Children / Theory [3] [3-3]  
Introduction to Nursing Care of Children; Nursing Care of Newborn: Nursing Assessment of Newborn, Providing Nursing Care to Newborns; The Newborn At Risk; Gestational Health problems, Acquired Disorder; Children as unique individuals with different capacities and vulnerabilities according to developmental level and health status; Children potential for a variety of responses in health and illness situations; Children’s abilities to respond to changes in health status within the context of their environment with an emphasis on the family; Nursing interventions that promote, maintain, or restore health and optimal functioning in relation to children and their families. The Application of the Nursing Process in the Care of Children with Various Health Problems Related To: Respiratory; Cardiovascular; Neurological; Renal; Gastrointestinal; Endocrine; Blood Disorders; Communicable Diseases.

**Prerequisites:** 0661223 Adult Health Nursing (1)  
0661224 Adult Nursing (1) / Clinical  
92350  Pharmacology

0661335 Nursing Care Of Children / Clinical [3] [3-12]  
This Clinical Course is Designed to Provide the Student with the Opportunity to Utilize Evidence-Based Knowledge and Critical Thinking Skills in the Planning and Provision of Comprehensive Nursing Care to Children along the Health-Illness Continuum; Prepare Students to be Competent in Providing Total Care for Infant or Child with Acute or Chronic Illness: Cardiovascular, Respiratory, Neurological, Renal Disorders, Endocrine, Gastrointestinal, Blood Disorders; Concepts Of Growth And Development, Family Integrity, Wellness, Risk Reduction, Disease Prevention; A Comprehensive Plan to Meet the Clients Physical and Psychological Needs, Implementation of the Plan of Care Utilizing The Nursing Process.

**Prerequisites:** 0661224 Adult Health Nursing (1) /Clinical

**Concurrent:** 0661334 Nursing Care Of Children / Theory

0661364 Methods of Research in Nursing / Theory [3] [3-3]  
Introduction to Nursing Research; Basic Concepts of Research: Research Nature, Purposes, Defining A Nursing Researchable Problem, Formatting Hypotheses, Stating Objective; Research Methodology: Research Design, Research Sample, Research Tools, Methods of Data Collection, Ethical Considerations; Literature Review; Data Analysis; Presentation of Findings,
Conclusions, Recommendations; The Applicability and Implementation of The Research Process to Nursing And Health Related Problems; Designing A Research Proposal.

**Prerequisites:** None

**0661441 Palliative Care Theory [2] [2-2]**
General Introduction To Palliative Care; Pain Management; Symptoms Management; Cultural And Ethical Issues; The Role of The Nurse in Providing Palliative Care; The Grief Process; Quality of Care; Death &Dying.

**Prerequisite:** 0661225 Adult Nursing (2)\ Theory

**0661442 Psychiatric- Mental Health Nursing \ Theory [3] [3- 3]**
Introduction to Psychiatric- Mental Health Nursing; Basic Concept of Psychiatric Nursing: The Value of Humanistic and Holistic Approach to Nursing Care, Concepts of Mental Health and Mental Illness, Representing the Concept as A Major Coping Pattern Along the Mental Health-Mental Illness Continuum as Addressed Through its Relation to the Anxiety Continuum; Theoretical Bases, Its Manifestation With The Five Dimensions of the Person, Related Nursing Diagnosis, Psychiatric Diagnosis, Nursing Care Plans; Psychiatric Nursing Practice; Principles Of Psychiatric Nursing Practice, The Nursing Process As An Organizing Framework; Therapeutic Approaches In Care Of Psychiatric Patients: Relationship Development And Therapeutic Communication; Signs And Symptoms Of Psychiatric Disorders; Electroconvulsive Therapy; Schizophrenia And Other Psychotic Disorder, Antipsychotic Agent; Mood Disorder; Suicide.

**Prerequisites:** 0661223 Adult Health Nursing (1)  
0661224 Adult Nursing (1)\ Clinical  
92350 Pharmacology

**0661443 Psychiatric –Mental Health Nursing (Clinical) [3] [3- 12]**
Introduction to the Clinical Aspects of Psychiatric- Mental Health Nursing; Explore and Gain Insight into The Problems Experienced by the Mentally Ill Person; The Emotional, Intellectual Social, and Spiritual Strains that Physical Illness Causes; Thoughts And Feelings of the Students' Regarding their Dealing with the Psychiatric Patients; Integration of Theoretical Base From the Mental Health Nursing Course; Utilize the Nursing Process within the Therapeutic Nurse Client Relationship with the Emphasis on the Humanistic Holistic Approach; Development of an Open Communication with Health Care Providers Team to Facilitate the Client's Healing Process in A Structured Environment; Nursing Care of Clients with Alteration in Biopsychosocial Adaptation, Schizophrenia and Other Psychotic Disorder, Mood Disorder and Suicide, Anxiety Disorders; Providing Holistic Care to Clients with Psychiatric And or Mental Health Problem While Applying the Nursing Process.

**Prerequisites:** 0661224 Adult Nursing (1)\ Clinical  
**Concurrent:**  0661224 Psychiatric- Mental Health Nursing/Theory

**0661451 Community Health Nursing Theory [3] [3-3]**
Introduction to Community Health Nursing; The Multidimensional Role of the Nurse in Community Setting Among Individual; Family; Community; The Role of Community Health
Nurses, School Health; Environmental Health; Occupational Health; Violence; Principles of Epidemiology; Types of Diseases, Diseases Prevention; The Group Process; The Communication Skills.

**Prerequisite:** 0661225 Adult Health Nursing (2) Theory
0661332 Maternal Health Nursing / Theory
0661334 Nursing Care Of Children/ Theory
0661442 Psychiatric- Mental Health Nursing / Theory

**0661452 Community Health Nursing Clinical [2] [1-8]**
Introduction To Community Health Nursing; The Family in The Community; Knowledge and Skills Learned Previously are Used to Guide the Concepts of the Individuals within the Family and the Family Within the Community either in Illness or in Wellness; Concepts of the Nursing Process within the Family and Self Care Framework are Applied; Analysis of Roles and Interactions of the Community Health Nurse with the Individual, Family, and Community; Nursing Roles in School Health, Occupational Health, Roles for Clients with Special Needs.

**Prerequisite:** 0661226 Adult Health Nursing (2) Clinical
0661333 Maternal Health Nursing / Clinical
0661335 Nursing Care Of Children / Clinical
0661443 Psychiatric- Mental Health Nursing / Clinical

**Concurrent:** 0661451 Community Health Nursing / Theory

**0661461 Administration in Nursing / Theory [3] [3-3]**
Introduction To Nursing Administration; The Principles, Concepts, Basic Theories in Administration Field; The Elements and Components of the Administrative Process, Planning, Organizing, Staffing, Directing Including Delegation, Conflict Management, Supervision, Coordination, Communication, Motivation, Staff Development and Guidance, Leadership and Power Structure; Change Theories; Quality Management in Health Care Field; Organizing Patient Care; Assembling Resources Including Budgeting; Staff Employment, Managerial Functions of the Head Nurse; The General Framework Carrying out the Elements of the Administrative Process by Hospital Administration in General, And For the Nursing Department In Particular.

**Prerequisites:** 0661225 Adult Health Nursing (2) Theory
0661332 Maternal Health Nursing / Theory
0661334 Nursing Care Of Children / Theory
0661442 Psychiatric- Mental Health Nursing / Theory

**0661462 Administration in Nursing / Clinical [2] [2-8]**
Introduction To The Clinical Aspects of the Nursing Administration; the Administration Skills and Leaderships in Hospitals and Health Care Centers; Application of The Practical Aspects of Nursing: Principles, Concepts, Basic Theories In Administration Field; Elements And Components of the Administrative Process: Planning, Organization, Personal Affairs Training, Guidance, Leadership, Evaluation; Changes And Different Strategies; Quality Management in Health Care Field; The Student Will Develop The Skills To Complete And Utilize The
Prerequisites: 0661226 Adult Health Nursing (2) / Clinical
0661333 Maternal Health Nursing / Clinical
0661335 Nursing Care Of Children / Clinical
0661443 Psychiatric- Mental Health Nursing / Clinical

 Concurrent: 0661461 Administration in Nursing / Theory

0661481 Intensive Clinical Training / Clinical :{ 6} [3-18] 40 Days
This Course Prepares The Student For His / Her Future Role After Graduation Through Independent Clinical Training By Applying Previously Acquired Knowledge & Skills Under The Supervision of The Nursing Staff in The Training Center and in Coordination with Faculty Members; Theoretical Knowledge and Practical Skills in Providing Holistic Nursing Care to Clients; Prepare the Students to be Competent and Professional in Providing Nursing Care to Individuals within A family Context Approach at the Preventive, Curative and Rehabilitative levels; Facilitate the Students’ Abilities to Collaborate Effectively with Interdisciplinary Health Care Teams to Improve the Quality of Nursing Care; Support the Students’ Abilities to Acquire Critical Thinking, Leadership, Decision Making, Commitment, Communication Skills and Ethical attitudes attributes; Appreciate the Impact of Advanced Technology to Develop Nursing Professional Practice; and to Utilize Research Results in Providing Care to Clients; During this Course and in the Final Semester of the Fourth Year the Students will Work on Daily Full Shift and for 40 Shifts Practice in One of the Health Care Institutions.

Prerequisites: 0661461 Administration in Nursing / Theory
0661462 Administration in Nursing / Clinical

0661329 Disaster And Emergency Nursing/ Theory: {3} [3-3]
Introduction to Disaster and Emergency Nursing; Definition of Disaster Nursing; Recognition of The Community Resources, Utilizing Disaster Planning Models; Recognizing the Role that Nurses Could Play in Disaster Situations; Basics of Emergency; First Aid; Emergency Nursing Care for Specific Medical Emergencies; Critical Thinking; Problem Solving.

Prerequisites: None

0661453 Gerontological Nursing / Theory {3} [3-3]
Introduction To Gerontological Nursing; The Basic Knowledge And Positive Attitudes Related To Elders’ Needs: Physiological, Psychological Or Social According To Their Health And Functional Patterns; The Planning And Implementation Of Nursing Care That Meets Elders’ Needs By Using The Steps Of The Nursing Process; Normal Changes To The Different Systems In The Body; Nursing Care Provided To Patients With: Respiratory, Cardiovascular, Integument, Muscleloskeletal, Genitourinary, Digestive, And Senses Alteration; Cognitive & Memory Changes, Psychosocial Adaptation.

Prerequisites: 0661223 Adult Health Nursing (1) / Theory
Introduction to The Study of Epidemiology; Concepts of Epidemiology and Related Terminology; Implementing Preventive and Control Measures for Common Communicable Diseases on The Individual, Family and Community Levels; The Potential Emerging/Threatening Diseases; The First Line of Defense and Management; Applications of Epidemiology for Various Populations.

**Prerequisite:** None

Introduction to Biostatistics; The Concepts And Skills Of Statistical Analyses; the Use of Statistical Tests; Summarizing and Presenting Data; The Assumptions that Underlie Statistical Analyses; Statistical Tests: Z-Tests, T-Tests, Correlation, and Chi-Square; Selecting Statistical Tests.

**Prerequisite:** None

Introduction to Clinical Nutrition; Healthy Diet; The Variation in Diet According to Various Disease States; Nutritional Health Education to Patients and Community; Nutrition in Nursing; Components of Nutrition: Carbohydrate, Protein, Lipids, Vitamins, Water& Minerals; Feeding Client: Hospital Food, Enteral, Parenteral, Nutrition; Nutrition for Client with Cardiovascular Disorders Disease; Nutrition for Client with Renal Disorders; Nutrition for Client with Gastrointestinal Disorders.

**Prerequisite:** 93117 General Chemistry

Introduction to Nursing Pharmacology; The General Principles of Pharmacology: Implications of Drugs, Drugs Preparations, Drugs Therapeutic Effects, Drug Adverse Effects, Drug Administration; The Categories of Drugs Acting on Autonomic Nervous System; Drugs Acting on Central Nervous System; Diuretics; Antimicrobials; Antiprotozoal Agent; Antihelmenties; Anti Cancer; Drugs Acting on The Endocrine System; Drugs Used in Gastrointestinal System; Drugs in Respiratory System and Autacoids; Nurses Role in Pharmacological Applications.

**Prerequisites:** 92220 Physiology  
93117 General Chemistry {3} [3-3]
00000 Biology {3} [3-3]
Introduction to General biology; Water; Macromolecules; Cell; Membrane; Metabolism; Cellular Respiration; Cell Cycle; From Gene to Protein; The biological diversity; Diversity of the five kingdoms of living organisms: Organisms, Monerans, Protists; The structure and function of systems and organs of the human (using the human body as a model).

**Prerequisite:** 000000 xxxxxxxxx

92330 Microbiology {3} [3-3]
Introduction; Fundamental concepts of microbiology; Microorganisms and their relation to disease; Classification and bacterial metabolism; Study the chemical and physical agent of sterilization; Structure function and pathogenesis of viral and fungal disease in different organ systems.

**Prerequisite:** 000000 xxxxxxxxx

000000 Nursing Pharmacology {3} [3-3]
Introduction to Pharmacology; Principle of Pharmacodynamics and Pharmacokinetics; Routes of administration; General mechanisms of drug actions; Types of receptor ligands interactions; Drug affecting the autonomic nervous system; Drug affecting the cardiovascular system Drug affecting Central nervous system; Drug affecting Respiratory tract; Drug affecting Gastrointestinal tract; Drug affecting Endocrine system; Chemotherapy; Anti-inflammatory drugs.

**Prerequisite:** 000000 xxxxxxxxx

000000 Physiology {3} [3-3]
Introduction to Physiology; Human body; Normal functions and mechanism of various physiological systems: Nervous system, Cardiovascular system, Muscles system, Blood, and Respiratory system; Normal functions and Homeostasis; Human nervous system, Sensory system, Gastrointestinal system; Endocrine system; Excretory system, and Reproductive system

**Prerequisite:** 000000 xxxxxxxxx

000000 Pathophysiology {3} [3-3]
Introduction to Pathophysiology; Common disorders of the following systems: Endocrine, Hematology, Cardiovascular, Respiratory, Urinary, Digestive and Nervous system Body fluid disorders.

**Prerequisite:** 000000 xxxxxxxxx