

curriculum



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Historical Perspective

The Department of Nursing was first established in 1979 with a four-years study program in the School of Medicine of the National and Kapodistrian University of Athens and its first opening was at the academic year 1980-81.

Since the academic year 1983-84, the Department of Nursing is equal with the other Departments of the University according to the law for the Higher Educational Institutes, the 2424/83 decision of the Council of State, the Bl.959/22-8-83 Ministry Decision and the since 25-7-83 decision of the senate of the National and Kapodistrian University of Athens. Since then, The Department of Nursing was included in the School of Health Sciences as an independent department.

Since the academic year 2005-2006, the Academic training of the students of the Military Nursing Academy is offered by the Department of Nursing of the National and Kapodistrian University of Athens, while the military training is offered in the Military Academy according to their internal schedule.

Mission

The Nursing Science together with the Medicine, Dentistry and Pharmacy, consist the Health Sciences. The Department of Nursing aims at the spherical education of scientific nurses. The subjects of the theoretical and practical education refer to the prevention, treatment and rehabilitation of the healthy or ill people, their family and their community.

The Place

The Department of Nursing is established at the building located at 123 Papadiamantopoulou Str, in Goudi. This building includes 4 teaching rooms, 7 laboratories, 21 offices and some more space for secondary purposes. At 8

Tetrapoleos Street (Goudi) are located the laboratories of Anatomy and Physiology as well as offices of the teaching personnel. In 5 Feidipiou Street (Goudi) is the Paediatric laboratory, in 42 Davaki Pindou Street (Goudi) is the Community Centre for the Psychiatric Health of the Department and in 1 Koropiou Street is the teaching room for the post-graduate studies program. The Secretariat of the Department is located at the University buildings at 75 Micras Asias street (Goudi, tel. 210-7462008).

Organization and Function

The personnel of the Department of Nursing is distributed in 5 divisions:

- Basic Science Division
- Division of Internal Medicine - Nursing
- Division of Surgical - Nursing
- Division of Public Health
- Division of psychiatric Health and Science of Behavior

Elected Governing Body

President: Professor Chryssoula Lemonidou

Vice President: Professor Elisabeth Patiraki

Sections Directors

Public Health: Prof. Athena Kalokairinou

Psychiatric Health & Behavioral Sciences: Professor George Alevizopoulos

Internal Medicine-Nursing: Professor Hero Brokalaki

Basic Sciences: —

Surgical-Nursing: Professor George Baltopoulos

The Faculty of Nursing comprises the following Laboratories & Departments:

Laboratories

- **Department of Internal Medicine-Nursing**
 - Nursing Skills' Laboratory
 - Pediatric Research Laboratory
 - Gastrointestinal and Liver Unit
 - Infections Disease Laboratory

- **Department of Basic Sciences**

- Biology-Biochemistry
- Anatomy - Histology - Embryology
- Physiology and Clinical Neurophysiology

- **Department of Public Health**

- Prevention
- Demography
- Clinical Epidemiology
- Health Informatics
- Center for Health Services Management and Evaluation
- Biostatistics
- Laboratory of Community Health Nursing

- **Department of Psychiatric Health & Behavioral Sciences**

- Psychopathology-Neuropsychology. Unit of Social Psychiatry-Center for Psychiatric Health

- **Department of Surgical Nursing**

- Functional control of Lungs, Bronchoscopy and Hyperbaric Oxygen-therapy, Unit for Sleep Studies and Center for the Evaluation and Identification for the need of Respiratory Support

Hospital Departments

- Department of Internal Medicine-Nursing

1. Department of Internal Medicine
2. Department of Pediatric, including
 - Pediatric clinic
 - Unit for Endocrinology, Metabolism and Diabetic Center
 - Unit for Clinical Genetics
 - Unit for Pediatric Gastroenterology, Diet and Obesity
3. Unit for the Study and Investigation of Respiratory Diseases Pediatric

- **Department of Surgical-Nursing**

1. Department of Surgery
2. Intensive Care Unit

CURRICULUM **FOR THE UNDERGRADUATE DEGREE IN NURSING**

COURSES PER SEMESTER

FIRST SEMESTER					
<i>COURSES</i>	LEC	LAB	SEM	CL. PR.	TOTAL
COMPULSORY					
Anatomy – Histology – Embryology I	3	2			5
Biochemistry	3				3
Cell Biology	4	1			5
Biostatistics	2		2		4
Introduction to Nursing	2				2
ELECTIVES					
Bioethics	2				2
Introduction to Psychology	1		1		2
Introduction to Informatics and Data Analysis	2	1	1		4
Biophysics	2				2

SECOND SEMESTER					
<i>COURSES</i>	LEC	LAB	SEM	CL. PR.	TOTAL
COMPULSORY					
Anatomy – Histology – Embryology II	2	2			4
Epidemiology	2		1		3
Health Economics	3				3
Fundamentals of Nursing I	3	3			6
Health Informatics	2	1	1		4
ELECTIVES					
Human Genetics	2				2
Clinical Nutrition	2				2
Biology of Behaviour	2				2
Health Sociology	2		1		3

THIRD SEMESTER					
<i>COURSES</i>	LEC	LAB	SEM	CL. PR.	TOTAL
COMPULSORY					
Pharmacology	2		1		3
Microbiology	2		1		3
Community Nursing I	2			4	6
First Aid	2	1			3
Fundamentals of Nursing II	2			3	5
Physiology I	4				4
ELECTIVES					
Biomedical Informatics & Technology	2				2
Nursing Theories	1		1		2
Radiation Protection	1		1		2
Oxygen Therapy	1			1	2

FOURTH SEMESTER					
<i>COURSES</i>	LEC	LAB	SEM	CL. PR.	TOTAL
COMPULSORY					
Prevention	2		2		4
Physiology II	4				4
Nursing Care Delivery Systems	2		1	2	5
Surgery – Physical Examination (Semeiography)	2			2	4
Health Psychology	3		1		4
Internal Medicine I	2				2
Ethical Issues in Health Care	1		1		2
ELECTIVES					
Transcultural Nursing	1		1		2
Hospital Information Systems	2				2
Occupational Health	2	2			4
Nursing Assessment	1	1			2
Dermatology Nursing	2				2
Communication Skills	1		1		2
Pathophysiology of Diseases	2				2

FIFTH SEMESTER					
<i>COURSES</i>	LEC	LAB	SEM	CL. PR.	TOTAL
COMPULSORY					
Internal Medicine II	4			2	6
Surgery	4			3	7
Medical Nursing I	3			4	7
Perioperative Nursing I	1		1	4	6
Management Health Services and Quality Assurance	2		1		3
ELECTIVES					
Rehabilitation of Patients with Chronic Diseases	1			1	2
Oncology Nursing	2			2	4
Gerontology Nursing	2			2	4
Neurological/Neurosurgical Nursing	1	1			2
Communication Skills	1		1		2

SIXTH SEMESTER					
<i>COURSES</i>	LEC	LAB	SEM	CL. PR.	TOTAL
COMPULSORY					
Psychiatry	3			3	6
Mental Health Nursing	2			4	6
Medical Nursing II	3			4	7
Perioperative Nursing II	1	1		4	6
Infection Control Nursing	2			3	5
Research Methodology	1		1		2
ELECTIVES					
Psychoactive Substances	3				3
Orthopaedic Nursing	1			2	3
Community Nursing II	2		2		4
Maternal and Gynaecological Nursing	2			2	4
Nephrology Nursing	1			2	3
Endoscopy Nursing	1			2	3
Cardiovascular Nursing	2			2	4

SEVENTH SEMESTER					
<i>COURSES</i>	LEC	LAB	SEM	CL. PR.	TOTAL
COMPULSORY					
Pediatric Nursing	2	1		4	7
Emergency Medicine & Intensive care	2			4	6
Emergency Nursing & Intensive care	2			4	6
Pediatrics	4			2	6
Anaesthesiology Nursing	2			2	4
ELECTIVES					
Mental Health Nursing Liaison	2				2
Complementary Therapies	2				2
Pulmonology-Nursing of Pulmonary Diseases	1			1	2
Mechanical Ventilation	1			1	2

EIGHT SEMESTER					
<i>COURSES</i>	LEC	LAB	SEM	CL. PR.	TOTAL
COMPULSORY					
Nursing Management	2		1	3	6
Clinical Nursing Practice				16	16
Palliative Care	2			1	3
Legislation and Nursing Responsibility	2				2
ELECTIVES					
Evidence Based in Nursing Practice	1	1			2
Nursing Problems of Children with Chronic Diseases	2			2	4
Emergency Medicine	2			2	4
Psychosocial Rehabilitation	2				2
Pediatric Trauma and Intoxications	1			1	2

COURSE DESCRIPTION

Anatomy, Histology and Embryology I

The objective of this course is to provide a basic understanding and working knowledge of the clinical anatomy, histology and embryology, and to give the students a concise account of the development of the human body. The material selected for inclusion is related to the organization and function of the human respiratory, cardiovascular, digestive, urinary, reproductive and endocrine system and tissue. Also, the structure and function for understanding gross anatomy and an explanation of many of the congenital anomalies that are seen in clinical practice.

Anatomy, Histology and Embryology II

The objective of this course is to provide a basic understanding and working knowledge of the clinical anatomy, histology and embryology, and to give the students a concise account of the development of the human body. The material selected for inclusion is related to the organization and function of the human respiratory, cardiovascular, digestive, urinary, reproductive and endocrine system and tissue. Also, the structure and function for understanding gross anatomy and an explanation of many of the congenital anomalies that are seen in clinical practice.

Anesthesiology Nursing

The course focuses on various types of anesthesia with regard to uses, advantages, disadvantages and nursing responsibilities.

Biochemistry

The aim of the course is to analyze the biochemical processes occurring in mammalian cells, to relate the biochemical events at the cellular level to the physiological processes occurring in the organism and to present examples of deviant biochemical processes in human disease.

Bioethics

This course is designed to provide students with frameworks for approaching ethical issues and to

enhance the student's understanding of ethical issues in nursing and health care.

Biology of Behaviour

Biological mechanisms and brain areas regulating behaviour:

- Neurobiology of stress and addiction.
- Hormonal influences on reproductive and feeding behaviour.
- Learning & Memory.
- Sex differences in cognitive abilities.

Biology of the Cell

The aim of the course is to help students understand the mechanisms underlying the phenomena of life. It includes the following topics: Macromolecules, basic techniques for the study of cells, biological membranes, cellular interactions, synthesis of DNA, RNA, and proteins, cytoskeleton, mitochondria and chloroplasts, cell cycle and its control, biology of cancer.

Biomedical Informatics and Technology

This subject will provide to the student the understanding of the principles of Biomedical technology devices as these are encountered in the hospital and health care environment. The emphasis is given on principles of Biomedical Informatics, biomedical Technology and bioinformatics, signal Processing Principles, imaging Devices, tomography Devices, safety Issues, introduction to Bioinformatics.

Biophysics

Biophysics is an integrated approach of physics to biology, medicine and biomedical technology. The material in these lectures is structured as a 13-week, one-semester course and it progresses from the basic concept of the mechanics of objects and fluids to the theory of waves and electromagnetism and the interaction of electromagnetic radiation with matter. It deals with the various spectroscopic techniques such as optical and mass spectrometry, gas chromatography, magnetic resonance spectroscopy, X-ray diffraction analysis and gel electrophoresis.

Biostatistics

This course provides an introduction to basic statistical procedures used in health care research. It also provides the basic knowledge necessary for the comprehension of variability in biological phenomena as well as for the classification, analysis, evaluation, description and display of data.

Cardiovascular Nursing

The course aims to prepare students for assessment of cardiovascular function, how to incorporate assessment of cardiac risk factors into the health history and physical assessment of the patient, how to use assessment parameters appropriate for determining the status of cardiovascular function, how to identify the clinical significance and related nursing implications of the various tests and procedures used for diagnostic assessment of cardiac function.

Clinical Nursing Practice

The course aims to the implementation by the students in clinical practice of the knowledge acquired during their studies. Emphasis is given in the development of critical thinking and clinical skills according to the nursing care and education of patients and their family, based on the principles of Nursing Process.

Communication Skills

Purpose of this course is to sensitize students to the dynamics involved in the patient – health care provider relationship and to develop specific communication skills that will help nurses to understand effectively, support and collaborate with patients and family members throughout the course of the disease.

Community Nursing I

This course focuses on the theories and principles underlying current community health nursing practice. The focus of care is on family and community. Particular emphasis is placed on assessing and intervening for and with a target population. The nursing role is developed with

emphasis on health maintenance, health promotion and disease prevention, as facilitated by health education and appropriate use of community resources. Critical inquiry using research and epidemiological processes is fostered by didactic and clinical learning experiences.

Community Nursing II

This course focuses on the role of community health nursing practice in relation to populations with special health needs. Particular emphasis is placed on assessing and intervening with individuals and groups with special health needs, such as home nursing, transcultural nursing, disaster nursing, etc.

Complementary Therapies

Main purpose of the subject is to give students the chance to learn about the scientific background of complementary treatments, through current long-term research and critical evaluation. It will also promote integrative and critical thinking, optimizing the offered healthcare.

Dermatology Nursing

The aim of this course is to present the essential knowledge of common dermatological diseases. Also it focuses to the assessment of clinical manifestations and the appropriate nursing interventions in the prevention and management of these diseases.

Emergency Medicine

The aim of the course is to introduce the principles of patient management in emergency situations and specifically in hospital emergency departments.

That is to provide appropriate knowledge and clinical skills regarding a variety of clinical situations including medical, surgical and trauma conditions.

Specific emphasis is given on nursing evaluation, triage and initial therapeutic measures and management decisions in an emergency department environment.

Emergency Medicine and Intensive Care Emergency Nursing and Intensive Care

These courses focus on the care given to patients with urgent and critical needs. The emergency care is viewed as a holistic concept that includes the patient, the family and significant others. An emphasis is given in the physiological and psychological homeostasis.

Endoscopy Nursing

The course includes: Principles of diagnostic and therapeutic endoscopy of the gastrointestinal tract and the biliary tree. Role of the endoscopy nurse.

Epidemiology

The course aims at the understanding of mortality and morbidity, the individual's characteristics (constitutional, environmental, behavioural), which influence the occurrence of disease (risk factors) and finally the measures of comparison, as well as the notions of the confounder or modifier. Upon completion of the course the student should be able to understand an epidemiologic study.

Ethical Issues in Health Care

The aim of this course is to extend the knowledge base of professional nursing to include ethical practice. The student will become familiar with human rights that concern health care. It focuses on the recognition of ethical issues as they arise in nursing practice and on the application of critical thinking in ethical decisions.

Evidence Based in Nursing Practice

This course provides an introduction to evidence-based practice and the critical appraisal of best evidence literature. Students learn to formulate clinical questions in answerable format, search for and identify best evidence, and appraise that evidence for rigor and applicability to a clinical problem. Best evidence consists of pre-appraised individual studies and overviews. Basic principles of scientific inquiry, quantitative and qualitative research methods and research ethics are intro-

duced in the context of clinically relevant research.

First Aid

The course instructs students on the actions that have to be taken in an emergency situation. Topics include: emergency resuscitation measures, patients with hemorrhage due to trauma and hypovolemic shock, heat stroke, cold injuries, anaphylactic reaction, poisoning etc.

Fundamentals of Nursing I, II

The courses focus on the actions basic to nursing practice – those commonly planned and implemented to meet the healthcare needs of individuals at any age, at any point along the health – illness continuum. The nursing actions include taking vital signs, and the health history, assessing health needs, maintaining safety, administering medications, following aseptic techniques to prevent and control the spread of microorganisms, and providing perioperative care.

Gerontology Nursing

The aim of this course is to give students the essential knowledge in order to recognize and understand problems faced by older people and their caregivers. It will facilitate the student's ability to identify and use therapeutic interventions effectively. Emphasis is given on legal and ethical issues in the care of older people.

Health Economics

To give the student a basic understanding of the fundamentals of economy theory and of the economic forces that determine behavior in the health sector. Elements of demand and supply for health care, income and price determination, output measurement, and assessment are discussed.

Health Informatics

The course offers a broad coverage of the multidisciplinary and inter-disciplinary area of Health Informatics. Applications of the Hospital Informa-

tion Systems, Nursing Systems, Biostatistical Analysis Tools, Expert and Diagnostic Systems as well as Computer Imaging, Bio-medical Signal Processing and of Multimedia Education Systems are introduced both during the lectures and the laboratory classes.

Health Psychology

The purpose of the course is to provide knowledge that will contribute to an effective interaction with patients and families under various conditions of illness and health. Special emphasis will be given to the psychosocial care of adult and child patients facing chronic and life threatening disease. In addition, the course will provide opportunities for the development of active listening skills that will facilitate communication among nurse, patient, family members and colleagues.

Health Sociology

Comparison and contrast of the biomedical and the psychosocial holistic model for the total comprehension of health and illness.

Hospital Information Systems

Health informatics aims at the process of collection and data processing for the extraction of information dealing mainly with data of hospitalized patients. The HIS course studies the methodology of designing systems, the software development, the application of information systems and the way of assessing them. Special emphasis will be given to the clinical and the administrative subsystems of the Hospital Information Systems. Existing HIS will be demonstrated. Development of an HIS sample will be performed using a data base development system.

Human Genetics

Aim of the course is the understanding of the mechanisms of human genetic diseases, both monogenic and polygenic, as well as those due to chromosomal aberrations. The basis and social and ethical questions arising during genetic counseling are discussed. Methods such as linkage analysis and positional cloning are also presented.

Infection Control Nursing

The course gives the necessary theoretical and clinical knowledge for the recognition of the risk factors for Nosocomial Infections which are transmitted to patients and personnel. Special emphasis is given to high risk hospital sections (ICU, operating rooms etc.)

Internal Medicine I, II

The aim of these courses is to present the essential knowledge of current internal medicine (pathophysiology, clinical manifestations, therapeutic modalities). Emphasis is given to assessment of symptoms and signs of human diseases and introduction to health history, diagnostic procedures and management of the most common disease entities.

Introduction to Informatics and Data Analysis

The course introduces the basic notion of Informatics, Computer Science and Information Science. The students acquire knowledge and experience in using Computer Systems by learning operating systems, application and programming computer tools from a user-oriented point of view.

Introduction to Nursing

The course explores the foundations for nursing practice from the perspective of the nurse and of a holistic understanding of the individual. Students of nursing are introduced to an evolving, challenging and rewarding profession and discipline and are provided with a knowledge base to ground the development of caregiving skills and professional relationships and behaviors.

Introduction to Psychology

The purpose of this course is to provide basic knowledge in contemporary psychology and will address the following topics: a) the science of psychology, b) functions of human behavior, c) theories of personality and d) developmental psychology. Students will also have the opportunity to visit community health programs that provide mental health services in the area of Athens.

Legislation and nursing responsibility

This course introduces the legal process, the roles and responsibilities of the multi-disciplinary nurse and forensic professionals, and the civil and criminal applications of forensic nursing in the judicial process. The course will prepare nurses to interface with the legal system. The recognition, collection, analysis and preservation of physical evidence are presented. The sources of law, legal systems, civil and criminal systems, interaction between the law and forensic science in the courtroom, fact versus expert witness, and tasks of the fact finder will be reviewed. Specific forensic nursing competencies for professional caring practice will be applied to discussion of medical-legal issues.

Management of Health Services – Quality Assurance

The study of health services for the purpose of preparing students as potential leaders in nursing administration to function in hospitals, public health and other care delivery agencies.

This course focuses on the concept of quality assurance, the accountability on the part of the health professions to society for the quality, appropriateness, and cost of health services provided.

Maternal and Gynaecological Nursing

The course focuses on the health issues of pregnancy, delivery and the post-partum period. Particular emphasis will be given to the role of the nurse in the management of these issues.

Mechanical Ventilation

The aim of this course is to introduce and teach the principles of mechanical assistance of the ventilation in emergency and critical care setting. Specifically the aim of the course is to help students to understand how a ventilator works, when and how mechanical ventilation is implemented in acute medicine. Another aim is to make mechanical ventilation easy and familiar to nursing students and give clinical skills for the everyday practice of mechanical ventilation.

Medical Nursing I & II

These courses focus on the theory underlying the principles involved in the planning of nursing interventions appropriate for adults with various complex health problems. The nursing process is used for identifying and solving health problems in order to meet a person's health care and nursing needs. Students must use critical thinking skills in their clinical practice.

Mental Health Nursing

To help students learn the basic scientific principles and clinical practices of psychiatric nursing, concerning the prevention of mental disorders, nursing care, therapy and rehabilitation of mental patients.

Microbiology

The study of the structure and the basic characteristics of bacteria, viruses, fungi and parasites as well as host-parasite interactions. Emphasis is given to taxonomy and the virulence factor of pathogenic microorganisms (bacteria, viruses, parasites).

Nephrology Nursing

This course focuses on the role of the kidney in the regulation of fluid and electrolyte balance, acid-base balance, and blood pressure. The assessment parameters for determining the status of renal and urinary function are presented. Emphasis is given to the use of nursing process to formulate a plan of care for patients undergoing assessment of the urinary/renal system and for patients with urinary and renal health problems.

Neurological-Neurosurgical Nursing

The course provides the scientific knowledge and promotes nursing skills development concerning the holistic care of patients with neurological or neurosurgical health problems as well as the support and collaboration with family members. The course focuses on nursing assessment parameters for determining the functional status of nervous system in communicative and non-communicative patients and emphasizes in nursing care plans for patients with stroke, aneurysm, epilepsy, convulsions, nervous system infections,

vertebral column injuries, increased intracranial pressure and neurodegenerative diseases.

Nursing Assessment

This course provides an introduction to nursing Assessment which is the first step of the Nursing Process. The students develop the skills needed for nursing diagnosis, decision making, nursing implementation, care delivery and nursing plans. Assessment is a key component of nursing practice, required for planning and provision of patient and family centred care. Students learn to take the patient history and vital signs, to assess the general appearance, to implement physical examination in the whole body in specific types of patients, in collaboration with the multidisciplinary health care team, so as to achieve goals and health outcomes.

Nursing Care Delivery Systems

This course focuses on the operational models for patient care delivery, which support professional nursing practice. The organization of patient care is addressed in ways that enable nursing to be attractive and viable in an environment of high technology and constant change.

Nursing Management

This course analyzes nursing management across organizational settings and compares management practice across settings. Students develop collaborative, managerial and writing skills.

Nursing Problems of Children with Chronic Diseases

The provision of specialized knowledge so as to achieve the comprehension of the difficulties which arise in the care of children with chronic diseases. The care of children and teenagers with life-threatening diseases requires active and holistic approach with emphasis on their physical, social and psychological care. The student must be aware of the basic principle, needs, specificities and impact of any chronic disease on the child and his family.

Nursing Rehabilitation of Patient with Chronic Diseases

The course will consider the very complex needs

of patients with chronic diseases. The care of these individuals will be considered across care settings with particular emphasis to the age span.

Nursing Theories

This course will explore the conceptual and theoretical basis of nursing. Selected conceptual models of nursing will be analyzed with emphasis on implications for nursing practice. Interrelationships among theories, practice and research will be stressed.

Occupational Health

This course addresses all levels of prevention within the scope of occupational health nursing practice. Program and policy issues are discussed using as examples the health needs of working populations such as women, shift workers and disabled workers, adolescents and aging workers. The importance of drawing on existing knowledge and research findings is emphasized, particularly as it relates to the occupational health nursing role in practice and policy decisions.

Oncology Nursing

This course provides the student with the knowledge and understanding of concepts essential to oncology nursing. Current knowledge and research in principles of carcinogenesis and therapeutics of cancer treatment, psychosocial responses to cancer and the quality of life of the individual with cancer, and the care of the terminally ill patient (palliative care) will be presented. Ethical, legal and health care system issues which influence nursing practice in oncology will be addressed.

Orthopaedic Nursing

The aim of the course is to provide the necessary knowledge related to the musculoskeletal system and how it works in health. The ability to observe, recognize and report abnormal functioning is presented. Emphasis is given to the basic nursing skills required for a careful assessment of the individual patient's needs and plan of care.

Oxygen Therapy

The aim of the course is to introduce the principles and practice of oxygen administration in the com-

mon clinical practice. It includes the mechanisms of action of oxygen under normobaric and hyperbaric conditions, the appropriate indications and contraindications as well as the complications that must be avoided. Specific emphasis is given on the safe application of oxygen under pressure in an effort to treat certain diving accidents and medical disorders, according to the approved indications. Also, the course underlines the role of the nursing staff which is very important in patient management.

Palliative Care

The course will provide students with the appropriate knowledge skills and attitudes to offer therapeutic supportive and palliative nursing care. The focus will be on understanding the philosophy and principles underpinning palliative care that is an approach that improves the quality of life of patients and families facing the problems associated with life-threatening illness, through the prevention and relief of suffering by means of early identification and impeccable assessment and treatment of pain and other problems, physical, psychosocial and spiritual. Special emphasis is given to enhance students' appreciation for a team approach to patient care, especially for the terminal patient.

Pathophysiology of Diseases

This course presents basic knowledge on the cellular mechanisms underlying the disease process. It includes description of the altered function of all major human systems as it relates to the most common diseases.

Pediatrics

The purpose of the course is to provide a basic knowledge of pediatric theory and practice necessary for practicing scientific nursing care. Emphasis is given to the special needs of newborn infants, children and adolescents with reference to physical, emotional, mental health and performance.

Pediatric Nursing

This course focuses on the unique health and developmental needs of infants, children and adolescents. A goal of the course is to develop

perspectives on health and illness in children emphasizing family – centered care that incorporates screening, teaching and health counseling. The student will use the nursing process to provide comprehensive care to children.

Pediatric Trauma and Intoxications

Purpose: The recording of the causes and particularities of children's accidents in order to offer better organized treatment and mainly to prevent them.

Perioperative Nursing I, II

The purpose of these courses is to allow students to explore the needs of the adult in the surgical setting. It aims to facilitate students in applying the knowledge gained from previous courses to clinical practice. The course focuses on concepts related to care of the adult with acute care needs particularly in relation to surgical nursing from the time the patient is prepared for and instructed about the forthcoming surgical procedure, through the immediate preoperative period, into the operative phase and the recovery from anesthesia and convalescence of these individuals. Attention focuses on the psychological as well as the physiologic reactions of the patient.

Pharmacology

The aim of the courses are to provide students with the necessary knowledge in order to understand the mechanism of action of drugs, their interactions with the biological substrate and their applications in disease prevention, diagnosis and therapy.

Physiology I, II

The study of the functions of the human body and its components and the chemical and physical processes involved.

Prevention

The aim of the course is: a) to understand the philosophy of prevention, its characteristics and to compare it to therapeutics; b) to evaluate its contribution to disease control and to the decrease of morbidity and mortality, as well as the promotion of health; c) to study the main preventive

programs implemented in Greece; d) to propose further preventive measures for the most important health problems.

Psychiatry (General – Social)

The course includes: introduction to psychopathology, taxonomic system concerning mental health, discussion of the organic, psychodynamic and social factors of mental illness, rehabilitation, prevention. The course is delivered through lectures and video tapes presenting case studies.

Psychoactive substances

This course is designed to provide an overview of the diagnosis, care and management of people who use drugs. Emphasis will be placed on defining concepts such as abuse and dependence on psychoactive substances and the understanding of the common substrate that leads to the development of disorders related to use of psychoactive substances. The effects of substance abuse and the assessment of "risks" associated with substance abuse are also discussed. The students will be also trained to basic skills to recognize the toxicity of drugs and major withdrawal symptoms. The principles of treatment of disorders associated with substance abuse and primary, secondary and tertiary prevention of substance abuse will be the final focus of this course.

Psychosocial Rehabilitation

The course introduces the student to the basic concepts and processes of psychosocial rehabilitation of chronic mental patients and their mainstreaming into the community. The definitions, concepts and categories of psychosocial rehabilitation, are presented as well as the chronicity of schizophrenia and the characteristics of institutionalization.

Pulmonology – Nursing of Pulmonary Diseases

The aim of the course is to teach common pulmonary diseases regarding aetiology, epidemiology, pathophysiology, clinical presentation, diagnosis and treatment. Specific emphasis is given on necessary knowledge and procedures regarding nursing diagnosis and provides nursing skills in the process of care, management and treatment in patients having pulmonary diseases.

Radiation Protection

The objective of the course is to provide the fundamental principles of Radiation Protection in medical field. By completing this course, students will acquire knowledge on: a) The use of ionizing radiation (and produce the systems) for diagnostic purposes in medicine b) Radiation Protection Regulations of ionizing radiation in medical applications c) Practical ways of radiation protection of patients and staff from the use of ionization radiation for diagnostic purposes in medicine.

Research Methodology

The aim of the course is to teach the principles of scientific knowledge. Topics examined within the framework of the course include: Epistemology as metatheory of science. Classification of sciences, the analysis of structure and function of scientific knowledge. Hypothesis, theories, concepts, scientific explanation and prognosis and the design of scientific studies and analysis of data.

Surgery I, II (Physical Examination Semeiography)

The aim of these courses is to present the essential theoretical background related to surgical indications and classifications of general physical assessment with emphasis on fluid and electrolyte balance and disturbances, nutritional status, respiratory status, cardiovascular status, hepatic and renal function, immunologic function and previous medication therapy. The concept of informed consent and family considerations are presented.

Transcultural nursing

This course explores how professional nursing interacts with the concept of culture. It is a specific cognitive specialty in nursing that focuses on global cultures and comparative cultural caring, health, and nursing phenomena. It is a body of knowledge based in anthropology and supported by nursing theory, research, and practice. The goals of transcultural nursing is to give culturally congruent nursing care, and to provide culture specific and universal nursing care practices for the health and well-being of people or to aid them in facing adverse human conditions, illness or death in culturally meaningful ways.