**Bachelor of Nursing Science (Bilingual) (Revised 2019)**

**Course Description (Foundation courses and Professional courses)**

**1. Foundation courses 23 credits**

**BCH 100 Introduction to Biochemistry 3(3-0-6)**

Structures and functions of biomolecules, amino acids, peptides and proteins, carbohydrates, lipids, nucleic acids; the kinetics of enzymes; bioenergetics and biological oxidation; various metabolic pathways, metabolisms of carbohydrates, lipids, amino acids and nucleic acids; gene structure and organization; biosynthesis of DNA, RNA and protein; regulation of gene expression; genetic engineering; regulation of metabolisms; interrelationship of tissue metabolism, hormone action; nutrition.

**BNP 103 Communication and Information Technology in Nursing 2(2-0-4)**

Principles and process of communication, the relationship between nurses and patients, establishing therapeutic relationship, professional characteristics required for effective communication in nursing, communications in nursing; importance and components of nursing information, applying nursing information technology to classify, gather, and manage nursing data, searching data from health and nursing database; academic writing and citing references.

**BNP 104 Health Science for Nursing I 3(2-3-6)**

Structure of human body; organ systems and tissues classification; histology of specific tissues, organs formation and functions, tissue damage and healing, advanced knowledge of organ transplantation, genetic material, fertility, embryological development, laboratory study of anatomy.

**BNP 201 Nutrition and Diet Therapy 3(3-0-6)**

Principles of nutrition and diet therapy, food and nutrients, nutrient replacement, energy and nutrients requirements, nutrition assessment, eating behaviors and factors affecting eating behaviors, nutrition for healthy individuals of all ages, nutritional deficiency, nutrition for admitted patients in hospital, diet therapy for persons with disorders in gastrointestinal tract, cardiovascular system, and immunity, food safety and sanitation.

**BNP 205 Health Science for Nursing II 3(3-0-6)**

Functional mechanisms of cells, tissues and organ systems for adaptation to maintain homeostasis, changes in functions of cells, tissues, neurological system, musculoskeletal system, endocrine system, and reproductive system resulting from pathology; the body’s response mechanisms and adaptation, clinical diagnostic investigations and the roles of nurses.

**BNP 206 Health Science for Nursing III 3(3-0-6)**

Functional mechanisms of cells, tissues and organ systems for adaptation to maintain homeostasis, changes in functions of cardiovascular system, respiratory system, gastrointestinal system, urinary system, body fluid, electrolytes, and acid-base resulting from pathology; the body’s response mechanisms and adaptation, clinical diagnostic investigations and the roles of nurses.

**BNP 207 Health Science for Nursing IV 3(2-3-6)**

Introduction to the nursing professional roles in therapeutic medication administration, Drug Act (Thailand), national drug policy, rational drug use, basic principles of pharmacological treatment for patient with various body system disorders, efficiency and effectiveness evaluation of medications for therapeutic treatments, drug-drug and drug-food interactions, observation for side effects, and appropriate nursing considerations, laboratory practices including transcription and verification of the prescribed medications, dosage calculation, safe drug administration, proper drug storage, educating patients about safety in high-alert/high-risk medication use, medication error prevention.

**MIC 201 Introduction to Microbiology and Parasitology 3(2-3-6)**

Morphology and characteristic of human pathogens, including bacteria, viruses, fungi and parasites; pathogenesis caused by both microorganisms and their toxins, and the immune response of microbial infection will be discussed; practical experience including control of microbial growth and laboratory techniques used in Bacteriology, Parasitology, Virology, Mycology, and Immunology.

**2. Professional courses 76 credits**

**BNP 211 Nursing Profession, Concepts, Theories and Nursing Process 3(2-3-6)**

Health systems, nursing care delivery systems, scope of nursing practice, professional development, professional conduct, patiens rights, metaparadigm of nursing and nursing theories, holistic nursing care, nursing process including health assessment, nursing diagnosis, planning, implementation, evaluation, and nursing documentation; practice health assessment in the nursing skills lab.

**BNP 212 Nursing for Health Promotion and Health Maintenance 3(2-3-6)**

Concepts and theories related to health promotion; assessing health and health behaviors; nursing for health promotion and health maintenance throughout the life span, including health responsibilities, nutrition, physical activity and exercise, avoiding smoking, drinking and addictive substances, spiritual development and stress management, interpersonal support; health screening, and health protection and management among people with common non-communicable diseases.

**BNP 218 Fundamental Nursing 3(2-3-6)**

Concepts and principles of nursing to meet individuals’ basic needs; hospitalization; providing a safe environment for patients and healthcare providers; fundamental nursing skills; practice in the nursing skills lab with regard to professional conduct and patient’s rights.

**BNP 227 Nursing Care of Adult and Elderly I 3(2-3-6)**

Demographic situation and health issues in adult and elderly clients; concept, theories, development and developmental tasks in adults and the elderly; the provision of professional nursing care for clients with acute and chronic health problems including gynecology, gastrointestinal, genitourinary, endocrine systems and perioperative clients by applying the nursing process to provide holistic nursing care, promote health, prevent complications and promote rehabilitation; ethical issues relevant to the adult and elderly nursing care; laboratory practice relevant to adult and eldery nursing with regard to professional conduct and patient’s rights.

**BNP 228 Nursing Care of Adult and Elderly II 3(2-3-6)**

Nursing care management principles of adult and elderly clients with acute, critical, chronic health problems related to respiratory, cardiovascular, nervous and musculoskeletal systems, fluid, electrolytes, acid-base balance, cancer, emergency and disaster by applying the nursing process when provide holistic care, to promote health, prevent complications, rehabilitation, palliative care, and end of life care; ethical issues related to the adult and elderly nursing care; practice in the nursing skills lab with regard to the code of ethics and professional conduct.

**BNP 234 Nursing Care of Child and Adolescent 3(2-3-6)**

Basic concepts and developmental theories of child and adolescent, promoting of growth and development, vaccination in children, child rearing and teenage parenting, nursing process and bio-psychosocial approach for health promotion and disease prevention, caring and rehabilitation of child and adolescent, nursing care of newborn with health problems, family involvement, children’s rights, ethical issues related to child and adolescent nursing care, laboratory practice relevant to child and adolescent nursing with regard to the code of ethics and professional conduct.

**BNP 311 Law and Nursing Ethics 2(2-0-4)**

History and development of law in nursing profession, laws relevant to the profession and practice of nursing, National Health Security Act; Sanatorium Act, and Professional Nursing and Midwifery Act; ethical theories, ethical principles, nursing ethics development, legal risks in nursing practice, legal issues and ethical dilemmas, ethical decision making.

**BNP 341 Maternal and Neonatal Nursing 3(2-3-6)**

Concepts of maternal and neonatal nursing, women’s reproductive health promotion, parental preparation, family building, family planning, infertility, nursing interventions for health promotion, promoting mother, neonate and family bonding and attachment during antepartum, intrapartum, and postpartum period, neonatal assessment, breastfeeding promotion, nursing process approach in caring for normal mother, neonate and family by using holistic care, laboratory practice relevant to maternal and neonatal nursing with regard to the code of ethics and professional conduct.

**BNP 342 Midwifery 3(2-3-6)**

Concepts of midwifery and midwifery evolution, assisting normal delivery, nursing care of mother and neonate with complication during antepartum, Intrapartum, and postpartum period, maternal role and adaptation, nursing process approach for promoting neonatal health, screening for risk and risk management of high risk pregnant during antepartum, Intrapartum, and postpartum period, management of operative obstetrics, assessment and caring for normal and complicated neonate, holistic care of mother and family with congenital anomalies neonate, laboratory practice relevant to midwifery skills with regard to the code of ethics and professional conduct.

**BNP 354 Mental Health and Psychiatric Nursing 3(2-3-6)**

Concepts and theories of mental health and psychiatric nursing, therapeutic treatment, mental health and psychiatric nursing technologies, the roles of nurses in caring for individuals, risk groups, those with mental health problems, psychiatric problems, and drug addiction in community and in institution; laboratory practice in using mental health and psychiatric screening and assessment tools, counseling and psycho-social therapy in patients with psychiatric problems, and therapeutic relationship with regard to laws, the code of ethics and professional conduct.

**BNP 418 Introduction to Nursing Research 2(2-0-4)**

Definitions, types, methods and basic processes of research; definitions and the significance of nursing research; nursing research questions and methodologies; ethical considerations in research; research utilization in nursing practice.

**BNP 419 Nursing Management and Professional Development 3(3-0-6)**

Concepts and theories of nursing management, leadership, nursing organization management, ward management, including resources, risks, quality, nursing standards, quality assurance, team development, positive practice environment, nursing performance evaluation, legal and ethical issues in nursing profession, nurses roles in professional development with respect to nursing science, nursing education, nursing research, nursing service, and nursing practice.

**BNP 463 Community Health Nursing 3(2-3-6)**

Concepts of public health and community health nursing; health policy and national health development plan; health service systems in Thailand; innovation and public health strategies; biostatistics and epidemiology; utilizing nursing process in community health development, family health, school health, environmental health, occupational health; disaster mitigation measures; primary medical care and rational drug use; community health nursing and primary medical care practice in a nursing laboratory with regard to laws, code of ethics, and professional conduct.

**BNP 491 Independent Study 3(0-6-3)**

Independent study under supervision of advisor in the area of health issues, quality improvement issues in nursing practice, or innovation of learning and nursing practice, based on theories and research.

**BNP 282 Fundamental Nursing Practicum 3(0-9-5)**

Clinical nursing practice, applying the nursing process to meet individuals’ basic needs; providing a safe environment including infection prevention and control; basic nursing skills, vital signs, and medication administration, practice fundamental nursing care, in the nursing skills lab with regard to the code of ethics and professional conduct.

**BNP 381 Adult and Elderly Nursing Practicum I 4(0-12-6)**

Clinical nursing practice in healthy adults and the elderly with acute and chronic health problems related to gynecological, digestive, urological, hormone and endocrine systems; nursing care for individuals underwent surgical procedures, applying nursing process to provide holistic nursing care, promote health, prevent complications and care for rehabilitating patients with medical and surgical problems, assess patient’s medication use, provide necessary information regarding medication use, and administer medication safely with regard to laws, the code of ethics and professional conduct.

**BNP 388 Child and Adolescent Nursing Practicum 4(0-12-6)**

Clinical nursing practice in children and adolescents, applying nursing process and skills in health promotion, illness prevention, nursing therapeutics and rehabilitation for healthy children and adolescents as well as those with health problems, focus on family involvement with regard to laws, children’s rights, the code of ethics, and professional conduct.

**BNP 389 Adult and Elderly Nursing Practicum II 4(0-12-6)**

Clinical nursing practice in adults and the elderly with acute, critical, chronic health problems and end of life care of respiratory, cardiovascular, neuromusculoskeletal systems, fluid, electrolyte, acid-base balance, cancer, applying nursing process to provide holistic nursing care, promote health, prevent complication, nursing therapeutics, rehabilitation, palliative care, and end of life care for patients covering medical and surgical problems, assess patient’s medication use, provide necessary information regarding medication use, and administer medication safely, emergency and disaster nursing management with regard to laws, the code of ethics and professional conduct.

**BNP 481 Maternal and Neonatal Nursing Practicum 3(0-9-5)**

Clinical nursing practice in caring of normal mother and neonate during antepartum, intra-partum, and postpartum period applying nursing process to provide holistic nursing care, health promotion of mother and neonate, maternal and neonate attachment and bonding, family health promotion, and family planning, assessment of mother’s medication use, and providing necessary information regarding appropriate and safe medication use with regard to laws, the code of ethics and professional conduct.

**BNP 482 Midwifery Practicum 3(0-9-5)**

Clinical nursing practice in caring of high risk and abnormal pregnant women by applying nursing process to provide holistic nursing care, antepartum nursing care, health risk screening, normal delivery, providing primary nursing care for women with disorders during antepartum, intrapartum, and postpartum period as well as for neonate with disorders, assessment of mother’s medication use, and providing necessary information regarding appropriate and safe medication use with regard to laws, the code of ethics and professional conduct.

**BNP 483 Mental Health and Psychiatric Nursing Practicum 4(0-12-6)** Clinical nursing practice in mental health and psychiatric, caring for individual, risk groups, and persons with mental health and psychiatric problems in community and institution, applying nursing process to provide holistic care, using mental health and psychiatric screening and assessment tools, therapeutic relationship, counseling and psycho-social theray, to promote health, prevent health problems, provide therapeutic nursing care, and rehabilitation with regard to laws, the code of ethics and professional conduct.

**BNP 484 Community Health Nursing Practicum 4(0-12-6)**

Community health nursing practicum using community health development process, and integrating the knowledge of community health nursing, nursing science and related sciences in providing holistic care for individuals, families, and people living in community; primary medical care practicum and rational drug use with regard to laws, the code of ethics, and professional conduct.

**BNP 485 Selective Nursing Internship Program 7(0-21-11)**  Practical training in providing nursing care to international clients in a selected area either in a public or private health service sector in Thailand or as an exchange student in health care setting abroad; focusing on working as a team member of a multidisciplinary team; integrating nursing knowledge and related fields in providing care to clients in different cultures in order to improve nursing competencies including, cultural competency, clinical nursing judgement with regard to laws, the code of ethics, and professional conduct.