

## **COURSE MODULES**

### **LEVEL 1.1**

#### **Anatomy & Physiology 1**

This module provides a basic knowledge of the anatomy and physiology of the human body at the cellular, tissue, organ and systemic levels. Various body systems are covered, including the musculo-skeletal, cardiovascular, respiratory, gastrointestinal, renal, blood, lymphatic and immune systems. The inter-relationships of the body systems and how they maintain homeostasis are also examined.

#### **Clinical Attachment 1.1**

This module offers opportunities for students to care for individuals with health needs, diseases and illnesses across a lifespan. Students will apply the knowledge and skills learnt in clinical practice in community and hospital settings.

#### **Communication in Nursing Practice**

This module focuses on developing effective communication skills for students to establish caring and supporting relationships with patients, their families and healthcare members.

#### **Fundamentals of Nursing**

This module covers Foundation of Professional Nursing, Principles of Health Promotion, Disease Prevention & Rehabilitation and Nursing Process. The module surveys the development of nursing in Singapore and abroad, as well as the principles of using practice, focusing on the caring concept. The framework of the nursing process is introduced for the development of all care plans. Students will also learn how to promote health awareness, disease prevention and rehabilitation.

#### **Health Psychology**

This module provides students with an understanding of human development, health psychology and abnormal psychology, as well as how psychological concepts are applied in the context of healthcare.

#### **Microbiology & Infection Control**

This module examines basic microbiology, immunology and the infection process, the body's defence mechanism, and the host-immune response to infections. Students will learn about the modes of transmission of microorganisms, and the prevention and control of infection in the hospital and community.

#### **Nursing Skills Laboratory 1.1**

This module equips students with the knowledge and skills needed to meet patients' basic health needs at the beginner level. These essential skills are fundamental to nursing practice and can be applied in a variety of healthcare settings.

### **LEVEL 1.2**

#### **Anatomy & Physiology 2**

This module provides students with a basic knowledge of the anatomy and physiology of the human body's nervous, reproductive, integumentary and endocrine systems. Students will learn the way the body's receptors provide sensory information and how the sensory pathways distribute this information to provide us with our sense of smell, taste, touch, sight, hearing and equilibrium.

#### **Cell & Molecular Biology**

This module presents the basic living unit (the cell), cell structures and functions, the central dogma of genetics and genetic diseases. It also covers gene cloning, some advanced molecular biology techniques and applications of stem cell research.

#### **Clinical Attachment 1.2**

This module offers students more exposure to caring for patients in a hospital setting. Students get to apply the knowledge and skills learnt to clinical practice.

### Gerontology & Community Nursing

This module provides students with knowledge and understanding of the ageing process and the problems faced by the elderly. It prepares the students to acquire the knowledge and skills to care for the elderly in various healthcare settings. Students will also have the opportunity to employ the Nursing Process to devise preventive health strategies for the individuals, families and communities.

### Medical Sociology

This module presents an overview of sociological perspectives for the broad understanding and analyses of society. It also presents concepts of medical and sociological theories and how these are applied in healthcare.

### Nursing Research 1

In this module, students will be introduced to nursing research principles, research methodologies and nursing research processes.

### Nursing Skills Laboratory 1.2

This module provides students with strategies to assess patients' health needs, formulate nursing diagnoses and assist in implementing nursing interventions and care plans.

### Pharmacology 1

This module introduces students to pharmacokinetics and pharmacodynamics. The principles for safe drug administration are highlighted and the nursing process framework is utilised to avoid drug errors. Systems of measurement and drug calculation are also included.

## COURSE CURRICULUM

Module Name	Credit Units
<b>YEAR 1</b>	
<b>Level 1.1</b>	
<b>(Academic: 26.5 hours per week)</b>	
<b>(Clinical Attachment: 35 hours per week)</b>	
Anatomy & Physiology 1	5
Clinical Attachment 1.1	5
Communication in Nursing Practice	2
Fundamentals of Nursing	4
Health Psychology	4
Microbiology & Infection Control	3.5
Nursing Skills Laboratory 1.1	6
Creative & Innovative Thinking Skills ^	2
<b>Level 1.2</b>	
<b>(Academic: 29 hours per week)</b>	
<b>(Clinical Attachment: 35 hours per week)</b>	
Anatomy & Physiology 2	5
Cell & Molecular Biology	4
Clinical Attachment 1.2	5
Gerontology & Community Nursing	3
Medical Sociology	4
Nursing Research 1	2
Nursing Skills Laboratory 1.2	6
Pharmacology 1	3
Sports & Wellness ^	2

**Notes:**

^ For more details on Interdisciplinary Studies (IS) electives, please log on to [www.np.edu.sg/is/](http://www.np.edu.sg/is/)

**IS Modules**

The School of Interdisciplinary Studies (IS) delivers a broad-based curriculum, which nurtures a new generation of professionals with multidisciplinary skills and an innovative and entrepreneurial spirit to meet the challenges of a knowledge economy. IS offers both prescribed modules and electives to challenge boundaries. Prescribed modules develop students' competencies in core areas such as Communication, Innovation and Enterprise, Culture and Communication, and Personal Mastery and Development, while elective modules provide insights into Arts and Humanities, Business, Design, and Science and Technology.

**COURSE MODULES****LEVEL 2.1****Clinical Attachment 2.1**

This module offers opportunities for students to care for individuals with diseases in a hospital setting. Students will apply the knowledge and skills learnt to clinical practice.

**Nursing Research 2**

This module introduces quantitative research methods, statistics and qualitative research methods. Students will be presented with evidence-based models, and acquire knowledge and skills to write research proposals.

**Nursing Science 1**

This module commences with the human physiological processes followed by diseases and disorders of the immune, cardiovascular and respiratory systems. Students will consolidate their knowledge of anatomy and physiology, pathophysiology and pharmacology, as well as medical and surgical management in caring for such patients. The nursing process framework will be used to develop care plans to meet physical, psychosocial and spiritual needs of patients.

**Nursing Science 2**

This module commences with the study of human physiological processes followed by diseases and disorders of the gastrointestinal, hepatic, pancreatic and renal systems. Students will consolidate knowledge of anatomy and physiology, pathophysiology, pharmacology, medical and surgical management in caring for patients with these diseases and disorders. The nursing process framework will be used to develop care plans that meet the physical, psychosocial and spiritual needs of the patients.

**Nursing Skills Laboratory 2.1**

This module equips students with the knowledge and skills to handle patients, and provide preventive, therapeutic and rehabilitative care. These developmental skills are necessary to enable students to implement plans in caring for adult patients with diseases and medical-surgical disorders of body systems.

**Pharmacology 2.1**

This module builds on Pharmacology 1 while focusing on the pharmacology of pathophysiological conditions related to the cardiovascular, renal, respiratory and digestive systems.

**LEVEL 2.2****Clinical Attachment 2.2**

This module gives students a first-hand experience in caring for patients across a lifespan in a hospital setting. Students should apply the knowledge and skills learnt to clinical practice. They will be assigned to mental health, paediatric, and obstetrics and gynecology units or the Communicable Disease Centre for their clinical attachment practice.

**Emerging Clinical Trends: Mental Health Nursing & Palliative Care**

This module helps students to assess and plan care for patients from the young to the elderly with psychiatric disorders. They will explore the treatment modalities, legal and ethical issues related to mental health nursing and

the role of the psychiatric nurse in the hospital and community. Students will also plan and deliver palliative care with an understanding of end-of-life patients requiring palliative care across their lifespan.

### Law, Ethics & Healthcare

This module helps students understand the laws that govern nursing practice, and explores ethical principles and moral standards of conduct. Students are also encouraged to examine their own personal and professional values and beliefs.

### Nursing Science 3

This module focuses on diseases and disorders of the endocrine, reproductive, musculoskeletal, haematological, integumentary, central nervous and sensory systems. Students will consolidate their knowledge of anatomy and physiology, pathophysiology, pharmacology, as well as medical and surgical management in caring for such patients. The nursing process framework will be used to develop care plans that meet physical, psycho-social and spiritual needs of patients.

### Nursing Science 4

This module introduces students to specialties such as maternal and infant nursing. This provides a basic understanding of conception and care of the expectant mother during the pre-natal, intra-natal and post-natal periods, as well as infant care. Paediatric nursing prepares students for paediatric clinical practice in hospitals.

### Nursing Skills Laboratory 2.2

This module equips students with the knowledge and skills to provide preventive, therapeutic and rehabilitative care to meet patients' health needs. These developmental skills are necessary to enable students to care for patients with mental health problems, obstetric and gynecological disorders, and children with medical-surgical disorders.

### Pharmacology 2.2

This module continues to build on Pharmacology 1 and adopts a pathophysiological approach for the study of pharmacology. The organisation of drugs by the disorders of body systems places the drug in context with how they are used therapeutically. Nursing considerations are emphasised and students are required to use the nursing process framework in drug administration.

## COURSE CURRICULUM

Module Name	Credit Units
<b>YEAR 2</b>	
<b>Level 2.1</b>	
<b>(Academic: 28 hours per week)</b>	
<b>(Clinical Attachment: 35 hours per week)</b>	
Clinical Attachment 2.1	5
Nursing Research 2	4
Nursing Science 1	6
Nursing Science 2	5
Nursing Skills Laboratory 2.1	8
Pharmacology 2.1	3
Singapore & World Issues ^	2
<b>Level 2.2</b>	
<b>(Academic: 27 hours per week)</b>	
<b>(Clinical Attachment: 35 hours per week)</b>	
Clinical Attachment 2.2	6
Emerging Clinical Trends:	
Mental Health Nursing & Palliative Care	4
Law, Ethics & Healthcare	2

Nursing Science 3	6
Nursing Science 4	4
Nursing Skills Laboratory 2.2	8
Pharmacology 2.2	3

**Notes:**

^ For more details on Interdisciplinary Studies (IS) electives, please log on to [www.np.edu.sg/is/](http://www.np.edu.sg/is/)

**IS Modules**

The School of Interdisciplinary Studies (IS) delivers a broad-based curriculum, which nurtures a new generation of professionals with multidisciplinary skills and an innovative and entrepreneurial spirit to meet the challenges of a knowledge economy. IS offers both prescribed modules and electives to challenge boundaries. Prescribed modules develop students' competencies in core areas such as Communication, Innovation and Enterprise, Culture and Communication, and Personal Mastery and Development, while elective modules provide insights into Arts and Humanities, Business, Design, and Science and Technology.

**COURSE MODULES**

**LEVEL 3.1**

**Life Sciences (Elective)**

Students have a choice of Medical Microbiology and Infectious Diseases, Drug Discovery: From Bench to Bedside, Immunology & Oncology or Health Informatics for this module.

**Nursing Management & Professional Development**

This module provides students with an understanding of the healthcare system, organisation of nursing services and healthcare operations. Students will examine their future roles as registered nurses, managers and leaders. They will understand the need and requirement to continuously develop themselves personally and professionally.

**Nursing Science 5**

This module has two components, Peri-Operative Nursing and Emergency & Critical Care Nursing. Students will learn about the physical set-up and environment of the operating room and find out about the responsibilities of the nurse. Students will also be introduced to the management of acute or life threatening conditions at the Accident and Emergency Unit and the care of the critically ill in the high dependency/intensive care units.

**Nursing Skills Laboratory 3.1**

This module equips students with the knowledge and skills to provide preventive, therapeutic and rehabilitative care for patients. This is necessary to enable students to coordinate and manage patient care in a variety of healthcare settings. Students will also learn how to care for patients in specialised settings such as emergency unit, operation theatre and high dependency/intensive care unit.

**Pharmacology 3**

This module builds upon the students' prior knowledge in Pharmacology 1, 2.1 and 2.2 modules. They will learn pharmacokinetics and pharmacodynamics of classes of drugs commonly used in perioperative and critical care and emergency care patients. Research Project In this module, students will conduct a clinical research project that will be primarily evidence-based in nature. Students will be exposed to report writing and research workshops.

**LEVEL 3.2**

**Clinical Attachment (Specialised)**

This module gives students experience in caring for patients across a lifespan in a hospital setting. They will apply the knowledge and skills learnt to clinical practice. Students will be assigned to care for patients in specialised settings in the Emergency Unit, Operation Theatre and Community Health.

### Clinical Attachment 3.2

This module gives students experience in caring for patients across a lifespan in a hospital setting. Students will apply the knowledge and skills learnt to clinical practice. Students are prepared for PRCP.

### Healthcare Career & Professional Preparation (Nursing)

The module helps to give students an introduction to the curriculum of their three-year Diploma in Health Sciences (Nursing) course and prepares them for the healthcare industry. It will help them to embark on their three-year course with the end in mind, through guided reflection of their personal characteristics, and producing an overall game plan for their future education and career goals. It also aims to deepen students' commitment to the healthcare sector.

### Pre-Registration Consolidation Placement

This module gives students experience in caring for patients across a lifespan in a hospital setting. They are required to complete a 14-week Pre-Registration Consolidation Placement (PRCP) in Medical or Surgical/Orthopaedic discipline. PRCP provides opportunities for students to consolidate and refine their skills and knowledge.

## COURSE CURRICULUM

Module Name	Credit Units
<b>YEAR 3</b>	
<b>Level 3.1</b>	
<b>(Academic: 26 hours per week)</b>	
Life Sciences (Elective)	3
• Drug Discovery: From Bench to Bedside	
• Medical Microbiology & Infectious Diseases	
or	
• Health Informatics	
• Medical Microbiology & Infectious Diseases	
Nursing Management & Professional Development	3
Nursing Science 5	6
Nursing Skills Laboratory 3.1	8
Pharmacology 3	2
Research Project	4
<b>Level 3.2</b>	
<b>(Academic: 25 hours per week)</b>	
<b>(Clinical Attachment: 35 hours per week)</b>	
Clinical Attachment (Specialised)	4
Clinical Attachment 3.2	6
Healthcare Career & Professional Preparation (Nursing)	1
Pre-Registration Consolidation Placement	14

### Notes:

^ For more details on Interdisciplinary Studies (IS) electives, please log on to [www.np.edu.sg/is/](http://www.np.edu.sg/is/)

### IS Modules

The School of Interdisciplinary Studies (IS) delivers a broad-based curriculum, which nurtures a new generation of professionals with multidisciplinary skills and an innovative and entrepreneurial spirit to meet the challenges of a knowledge economy. IS offers both prescribed modules and electives to challenge boundaries. Prescribed modules develop students' competencies in core areas such as Communication, Innovation and Enterprise,

Culture and Communication, and Personal Mastery and Development, while elective modules provide insights into Arts and Humanities, Business, Design, and Science and Technology.