

# Yong Loo Lin School of Medicine

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Website: <http://medicine.nus.edu.sg>, [www.facebook.com/NUSMedicine](http://www.facebook.com/NUSMedicine)

# 1 Faculty's Commitment

Ranked one of Asia's best medical education and research institutions, NUS Medicine admits 300 students every year into its undergraduate degree programme, and continues to produce the majority of doctors for Singapore. The School's undergraduate and postgraduate nursing degrees also train professionals who are able to work effectively with their medical colleagues in managing the full spectrum of diseases that afflict Singaporeans and Asians.

Along the way, the School has burnished its reputation as a crucible of significant research spanning the basic as well as clinical sciences. Its faculty comprise academic clinicians and scientists who have forged their credentials locally and internationally.

A transformational gift in 2005 from the Yong Loo Lin Trust further enabled the School to map new pathways of scientific enquiry into various causes and origins of key illnesses like cancer, cardiovascular disease, obesity, epigenetics and neurocognition. The gift also enabled a far-reaching revamp of the undergraduate education curriculum. This places the patient squarely in the centre of focus of everything that is now taught and done at the School, which was renamed in honour of its far-sighted benefactor.

The School strives to fulfil its mission of contributing to excellent clinical care, training the next generation of healthcare professionals, and fostering research that will help transform the practice of medicine. Its 18 departments in the basic sciences and clinical specialties work closely with the Centre for Medical Education and the Centre for Biomedical Ethics to ensure that teaching and research are aligned and relevant to Singapore's healthcare needs. In 2008, the School became an integral part of the National University Health System (NUHS), which also groups the National University Hospital, the NUS Faculty of Dentistry and the NUS Saw Swee Hock School of Public Health. The NUHS aims to develop and provide innovative, sustainable and value-driven healthcare for Singaporeans.

## 2 Key Contact Information

(For up-to-date information, please visit the Faculty's website at  
[http://medicine.nus.edu.sg/corporate/about\\_us.html#/contact\\_us](http://medicine.nus.edu.sg/corporate/about_us.html#/contact_us))

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE (6772-XXXX)	EMAIL (XXXX@NUS.EDU.SG)
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Prof HOOI Shing Chuan	Vice-Dean (Education)	3755	phshsc
Prof Prof HO Khek Yu	Vice-Dean (Research)	4362	mdchoky
Assoc Prof LEE Yung Seng	Vice-Dean (Academic Affairs)	3356	paeleey
Mr TEO Kheng Lin Stewart	Vice-Dean (Finance)	3811	medtkls
Assoc Prof CHONG Yap Seng	Vice-Dean (Academic Medicine)	4272	obgcys
Mr SIM Tiong Kian	Director (Administrative)	3788	medsimt
Mr LIM Teck Hau, Michael	Director (Corporate Communications)	3988	medlthm

### Departments/Divisions

The following departments are involved in teaching the undergraduate courses. In addition, clinical staff practise and teach in NUH and other restructured hospitals and national centres in Singapore. Medical undergraduates are also rotated to all the hospitals and selected clinics as part of their clinical teaching.

<b>TITLE &amp; NAME</b>	<b>DESIGNATION/RESPONSIBILITY</b>	<b>TELEPHONE</b>	<b>EMAIL (XXXX@NUS.EDU.SG)</b>
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Assoc Prof Shaikali Thameem DHEEN	Head, Department of Anatomy	6516 3127	anthead
Assoc Prof Markus R WENK	Head, Department of Biochemistry	6516 3624	bchhead
Assoc Prof QUEK Swee Tian	Head, Department of Diagnostic Radiology	6772 4211	dnrhead
Assoc Prof DAN Yock Young	Head, Department of Medicine	6772 4362	mdchead
Prof Nicholas Robert John GASCOIGNE	Head, Department of Microbiology and Immunology	6516 3275	michead
Prof Emily ANG Neo Kim	Head, Alice Lee Centre for Nursing Studies	6516 5088	nurhead
Prof YONG Eu Leong	Head, Department of Obstetrics and Gynaecology	6772 4285	obghead
Assoc Prof Clement TAN	Head, Department of Ophthalmology	6772 5338	ophthead
Assoc Prof WANG Ee Jen Wilson	Head, Department of Orthopaedic Surgery	6772 2477	doshead
Assoc Prof LOH Kwok Seng Thomas	Head, Department of Otolaryngology	6772 5372	enthead
Assoc Prof GOH Yam Thiam Daniel	Head, Department of Paediatrics	6772 4414	paehead

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	EMAIL (XXXX@NULLNUS.EDU.SG)
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Assoc Prof Fred WONG Wai-Shiu	Head, Department of Pharmacology	6516 3266	phchead
Prof SOONG Tuck Wah	Head, Department of Physiology	6516 3222	phshead
Assoc Prof WONG Chee Meng John	Head, Department of Psychological Medicine	6772 4511	pcmhead
Prof Krishnakumar MADHAVAN	Head, Department of Surgery	6772 4220	surhead

### **Centre for Medical Education (CenMED)**

The Centre for Medical Education (CenMED) is a core unit in the Yong Loo Lin School of Medicine, with the mission to promote Professionalism and Excellence in Medical Education.

### **CenMED aims to provide two core functions namely:**

#### **Academic Function**

- Initiate, organise, design and conduct faculty development programmes in medical pedagogy.
- Undertake and enhance scholarship and research in medical education.
- Establish the Yong Loo Lin School of Medicine and National University Health System as a centre of excellence for medical education in the region and beyond with enhanced capability in providing quality training courses in various aspects of medical education.

#### **Service Function**

- Provide educational leadership and expertise in the development of educational policies and procedures based on best evidence in medical education.
- Provide expertise in and support for student assessment and curriculum evaluation.
- Contribute to the development of instructional materials to support teaching and learning.

**Director: Dr Dujeeva D Samarasekera**

**Senior Associate Director: Ms Lee Su Mei**

Tel: 6516 3732 Fax: 6872 1454

Email: medlsm@nullnus.edu.sg

## **Centre for Healthcare Simulation (CHS)**

The mission of the Centre is to develop a world-class immersive, simulation-based learning environment where medical education is enhanced through simulation technology, innovation and research. Since the establishment of CHS, simulation teaching is embedded into all 5 years of medical school.

CHS comprises a simulated Operating Theatre (OT), an Intensive Care Unit (ICU), an Emergency Room (ER), a Paediatrics Acute Ward, a Labour Ward, eight clinical wards, two procedural rooms and 60 consultation rooms. With a suite of high fidelity simulators, part task trainers and a pool of trained Standardised Patients, faculty members are able to plan and design innovative programs where medical and nursing students are given opportunities to learn various clinical skills, team training and communication skills in a safe environment.

**Director: Assoc Prof Suresh Pillai**

**Assistant Manager: Ms Ang Shu Shing**

Tel: 6601 1520

E-mail: medangss@nus.edu.sg

## **Division of Graduate Medical Studies**

Graduate training and education is a continuation of medical education from the undergraduate years. The Division of Graduate Medical Studies (DGMS) has been responsible for graduate medical training and education in Singapore since 1969.

The objectives of the Division include:

- a. conducting examinations leading to graduate specialty qualifications in medicine;
- b. conducting courses and training leading to graduate specialty qualifications in medicine; and
- c. conducting courses and examinations leading to allied health qualifications.

DGMS currently offers 12 specialties or disciplines of Master of Medicine (MMed) examinations of which 5 are offered jointly with Royal Colleges in the United Kingdom. Besides MMed examinations and their examination preparatory courses, the Academic Unit also offers 6 Graduate Diploma programmes, 2 Allied Health professional degrees, namely Master of Science (Speech and Language Pathology) and Master of Science (Audiology), and is responsible for 2 Allied Health certification exams (Speech and Language Therapists, and Advanced Practice Nurse).

**Head: Assoc Prof Chen Fun Gee**

**Assistant Director: Ms Goh Mei Ling**

Tel: 6601 4848

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### Phase Directors

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Assoc Prof Malcolm MAHADEVAN	Year 4 (Phase IV)	6772 5002	malcolm_mahadevan@nullnuhs.edu.sg
Asst Prof Derek SOON	Year 5 (Phase V)		mdcstld

### Administrative Coordinators

#### A. Undergraduate Medical Studies

<b>TITLE &amp; NAME</b>	<b>DESIGNATION/RESPONSIBILITY</b>	<b>TELEPHONE (6772-XXXX)</b>	<b>FAX</b>	<b>EMAIL (XXXX@NULLNUS.EDU.SG)</b>
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Ms Karen TAN	Manager (Curriculum, Assessment, Admissions & Electives)	6601 5640	6778 5743	medtssk
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Ms Vania HO	Assistant Manager (Curriculum and Assessment, Phase I)	6601 5523	6778 5743	medhhyv
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Mr William CHOW	Assistant Manager (Curriculum and Assessment, Phase III)	6601 5641	6778 5743	medwcwk
Mr Alex ONG	Executive (Curriculum and Assessment, Phase IV)	6601 3471	6778 5743	medoxxa
Ms Angeline HUANG	Senior Executive (Curriculum and Assessment, Phase V)	6601 5636	6778 5743	medhha
Ms CHONG Xin Yu	Executive (Curriculum and Assessment, Phase V)	6601 5635	6778 5743	medcxyu
Ms CHONG Siew Ling	Manager (Student Affairs)	6601 3477	6778 5743	medchon
Ms Grace SOW	Senior Manager (Education Technology)	7601	6778 5743	medgstb
Ms TAN Yan Ling	Assistant Manager (Education Technology)	7557	6778 5743	medtanyl
Mr KOH Hwei Keong	Assistant Manager (Undergraduate Student Feedback System)	3776	6778 5743	medkhk

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Ms JAYARAM Sunitha	Assistant Manager (Plans: IPE & Global Health & Leadership)	6979	6778 5743	medjaya
Ms LIU Ching Man	Senior Assistant Manager (Plans: Curriculum Planning & Development)	7554	6778 5743	medlcm
Ms Jenn YE	Assistant Manager (Plans: Curriculum Planning & Development)	7605	6778 5743	medyzj
Ms Clara CHAN	Assistant Manager (Plans: Curriculum Planning & Development)	3783	6778 5743	medcshc
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Ms HAFIZAH Binte Ibrahim	Assistant Manager (Centre for Healthcare Simulation)	6601 2989		medhi

## B. Undergraduate Nursing Studies

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Ms HOI Lai Meng	Manager (Undergraduate Programmes)	6516 5087	6776 7135	nurhlm

C. Graduate Studies

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Ms Dee PHAM	Executive (Cancer Science Institute of Singapore PhD Programme)	6516 7287	6873 9664	csidp
Mr Michael LIM Seow Ping	Senior Executive (Master of Clinical Investigation Programme)	6772 7545	6778 5743	medlspm
Ms GOH Mei Ling	Assistant Director (Division of Graduate Medical Studies)	6601 4848	-	gsmgohml
Ms YEO Chwee Geok Doris	Manager (Master of Science [Speech and Language Pathology])	6516 6740	-	gsmycgd
Mr CHOO Boon Beng Edmund	Assistant Manager (Master of Science [Audiology])	6601 3613	-	entcbbe

<b>TITLE &amp; NAME</b>	<b>DESIGNATION/RESPONSIBILITY</b>	<b>TELEPHONE</b>	<b>FAX</b>	<b>EMAIL (XXXX@NULLNUS.EDU.SG)</b>
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Ms MARIATI Bte Mohd Noor	Senior Assistant Manager (Graduate Research Programmes in Nursing)	6516 3115	6776 7135	nurmmn

D. General Enquiries

<b>TITLE &amp; NAME</b>	<b>DESIGNATION/RESPONSIBILITY</b>	<b>TELEPHONE</b>	<b>FAX</b>	<b>EMAIL (XXXX@NULLNUS.EDU.SG)</b>
Ms JURAIDAH Binte Selamat	Undergraduate Medical Studies	6601 5643	6778 5743	medjs
Ms HOI Lai Meng	Manager/Undergraduate Nursing Studies	6516 5087	6776 7135	nurhlm
Mdm KHO Teck Kheng	MSc/PhD Research Programme	6772 3728	6778 5743	dgrs
Ms Yvette SOON	Cancer Science Institute of Singapore PhD Programme	6601 1607	6873 9664	csishhy
Ms KAN Jia Hui	Assistant Manager/ Master of Nursing (MN) Programme	6516 8687	6776 7135	nurkjh

<b>TITLE &amp; NAME</b>	<b>DESIGNATION/RESPONSIBILITY</b>	<b>TELEPHONE</b>	<b>FAX</b>	<b>EMAIL (XXXX@NUS.EDU.SG)</b>
Ms MARIATI Bte Mohd Noor	Senior Assistant Manager/ Graduate Research Programmes in Nursing	6516 3115	6776 7135	nurbox3
Ms RIDASERI Binte Suparman	MMed, MSc (SLP) and Graduate Diploma Programmes	6601 4888	-	gsmbox1

## **3 Undergraduate Education**

3.1 [Degrees Offered](#)

3.2 [Degree Requirements](#)

3.3 [Special Programmes](#)

3.4 [Financial Assistance and Awards](#)

### 3.1 Degrees Offered

The Yong Loo Lin School of Medicine offers two full-time undergraduate programmes, leading to:

- Bachelor of Medicine and Bachelor of Surgery (MBBS)
- Bachelor of Science (Nursing) / Bachelor of Science (Nursing)(Honours)

#### Overview of Bachelor of Medicine and Bachelor of Surgery (MBBS)

The undergraduate medical programme is a five-year course leading to the degrees of Bachelor of Medicine and Bachelor of Surgery (MBBS). The curriculum map is as follows:

Phase I (Year 1)	Normal Structure and Function	Longitudinal Tracks: <ul style="list-style-type: none"><li>• Health Ethics, Law &amp; Professionalism</li><li>• Medicine &amp; Society</li><li>• Information Literacy</li><li>• Patient-based Programme</li><li>• Clinical Skills Foundation Programme</li></ul>
Phase II (Year 2)	Abnormal Structure and Function	
Phase III (Year 3)	Core Clinical Practice	
Phase IV (Year 4)	Acute and Specialty Clinical Practice	
Phase V (Year 5)	Student Internship Programme	

**Note:** The curriculum map set out in the above table is only applicable to students admitted in AY2008/09 and subsequent academic years, or students graduating 2013 and onwards. This revised curriculum map is not applicable to students admitted before AY2008/09 or students graduated in 2012 and before. Students should note that there is a distinction in the degree requirements for students graduated in 2012 and before and the degree requirements for students graduating in 2013 and onwards. Where applicable, the distinctions in the requirements are set out in this Bulletin and students should take note of the requirements that are applicable to them. The Yong Loo Lin School of Medicine will endeavour to give students notice of any requirements which have yet to be finalised as soon as reasonably practicable after these have been finalised, and such requirements shall apply to students as if they had been incorporated in this Bulletin.

Some of the key highlights of the undergraduate medical curriculum are:

- Early meaningful clinical exposure;
- Developing caring and ethical medical professionals;
- Devoting significant curriculum time to case-based learning and small group teaching;
- Interprofessional education;
- Aligning teaching and assessment to outcomes.

## **Overview of Bachelor of Science (Nursing)**

The BSc (Nursing) curriculum reflects current healthcare trends and the role of registered nurses in facing the challenges of nursing practice in the 21st century. Students will learn basic skills in a simulated clinical laboratory on campus and be exposed to practise in a range of clinical settings as they progress. The programme is modular in nature and includes the following subjects:

- Nursing Sciences
- Anatomy and Physiology
- Pathophysiology
- Pharmacology
- Immunology
- Microbiology
- Psychology
- Sociology
- Critical Thinking and Analysis
- Healthcare Law and Ethics
- Healthcare Management and Education
- Research and Statistics
- Evidence-based Practice
- Clinical Skills
- Clinical attachments at local hospitals/institutions, etc.

Fourth-year Honours students will be expected to complete a research project and modules such as Applied Research Methods and Evidence-based Health Care Practice.



## **3.2 Degree Requirements**

3.2.1 [Bachelor of Medicine and Bachelor of Surgery \(MBBS\)](#)

3.2.2 [Bachelor of Science \(Nursing\) / Bachelor of Science \(Nursing\) \(Hons\)](#)

### **3.2.1 Bachelor of Medicine and Bachelor of Surgery (MBBS)**

#### **Admission to the undergraduate medical programme**

Apart from the minimum requirements specified by the NUS Office of Admissions, to be eligible for Medicine, candidates presenting the Singapore-Cambridge GCE 'A' Levels / International Baccalaureate / NUS High School Diploma / Local Polytechnic Diploma must meet the applicable prerequisites set out below:

##### GCE 'A' Levels

A good H2 pass in Chemistry and H2 pass in either Biology or Physics

##### International Baccalaureate

A good Pass in HL Chemistry and either HL Biology or HL Physics

##### NUS High School Diploma

Major CAP of at least 2.0 in Chemistry and either Biology or Physics and  
CAP of at least 1.0 in one other major and in English Programme and Research Project

##### Local Polytechnic Diploma

Good GPA from accredited polytechnic diplomas

Applicants will be shortlisted for the Focus Skills Assessment (FSA) and Situational Judgement Test (SJT) based on University Admission Score. All shortlisted candidates are required to submit a portfolio, attend the FSA and SJT. Candidates who do not meet shortlisting criteria but have exceptional talents or achievements may apply to be shortlisted by means of discretionary admissions process, known as the Exceptional Individual Scheme (EIS). Admission to NUS Medicine will be based on your performance in the FSA and SJT.

#### **Health Requirements - Virus Screening and Immunisation**

Besides the conditions indicated in the offer letter, admission to Medicine & Nursing is also subject to the following health requirements.

HEALTH REQUIREMENT	DETAILS
Mumps, Measles and Rubella (MMR)	<p>All prospective medical/nursing students should be immune (from documented infection) or fully vaccinated. Candidates should produce official records of previous vaccinations or serological screening results or physician documented diagnoses of previous infection as proof of immunity. Self-declaration of previous infection is not sufficient.</p> <p>Students may begin classes without documentary evidence of immunization for MMR if he/she has a letter from a physician stating that there is a reason why he/she cannot receive the vaccine.</p>
Varicella (Chickenpox)	<p>All prospective medical/nursing students must undergo screening for immunity to the Varicella Zoster Virus (VZV), as demonstrated by adequate serological titres as defined by the reference range of an accredited testing laboratory. Candidates with negative or equivocal titres will require immunisation. Certification of past infection/previous immunisation of chickenpox is not acceptable as there are issues with clinical diagnosis and the risk of transmission from students to vulnerable patients is significant.</p> <p>Students may begin classes without documentary evidence of immunization for Chickenpox if:</p> <ul style="list-style-type: none"> <li>i. He/she has a letter from a physician stating that there is a reason why he/she cannot receive the vaccine;</li> <li>ii. He/she concerned has documented evidence of two administrations of the varicella vaccine (non-responders).</li> </ul>
Pertussis	<p>All prospective medical/nursing students should produce documented proof of vaccination with Tdap. Those who have not previously received tetanus toxoid, reduced diphtheria toxoid and acellular pertussis (Tdap) should be vaccinated with a single dose of Tdap, regardless of the interval since the last dose of tetanus or diphtheria-containing vaccine. Proof of vaccination with Td alone is insufficient. Self-declaration is not accepted as proof of immunity.</p>

HEALTH REQUIREMENT	DETAILS
Blood Bourne Diseases (BBD)	<p><u>Hepatitis B</u></p> <p>All prospective medical/nursing students should be screened for hepatitis B carriage and show documented serological evidence of immunity against hepatitis B (i.e. anti-HBs <math>\geq 10</math> mIU/mL). Hepatitis B negative students who do not have documented serological evidence of immunity against hepatitis B (i.e. anti-HBs <math>\geq 10</math> mIU/mL) should be vaccinated with the primary course series (i.e. 3 doses of hepatitis B vaccine). A post-vaccination serology test should be conducted to determine the concentration of protective antibodies i.e. anti-HBs of at least 10mIU/mL</p> <p><u>Hepatitis C</u></p> <p>All prospective medical/nursing students should be screened for hepatitis C.</p> <p><u>HIV</u></p> <p>All prospective medical/nursing students should be screened for HIV.</p> <p>Screening should be carried out before final admission into the course, as results may affect students' career choices. Students tested positive for Hep B, Hep C and/or HIV will be counselled to understand that their areas of practice may be restricted to non exposure-prone procedure areas.</p>

All candidates may have their screenings and immunisations done at the University Health Centre (UHC) Level 1, 20 Lower Kent Ridge Road, Singapore 119080; or a registered medical practitioner of your choice. The deadlines by which the screening and immunisation must be completed, are set out in the table below.

VIRUS	SUBMISSION OF PROOF OF VACCINATIONS / SCREENING	IMMUNISATION (FOR THOSE WHO DO NOT HAVE IMMUNITY)		POST VACCINATION SCREENING
	DEADLINE	DETAILS	DEADLINE	DEADLINE
Varicella Zoster (Chickenpox)	22 July 2016	• 2 injections over 6 to 10 weeks	To submit proof of first injection by 10 August 2016	Not Applicable
Mumps Measles Rubella (MMR)		• 2 injections over 4 to 6 weeks or booster single injection only		Not Applicable
Pertussis		• 1 injection only	To complete and submit proof of vaccination by 10 August 2016	Not Applicable
Hepatitis B		• 3 injections over 6 months or booster single injection only	To submit proof of first injection by 10 August 2016 To complete by 30 January 2017	1 month after immunization
Hepatitis C		Not Applicable		
HIV		Not Applicable		

All students are required to submit a complete set screening and vaccination records in soft copy to [nusmedicine\\_ohc@nullparkwayshenton.com](mailto:nusmedicine_ohc@nullparkwayshenton.com)

Students who do not have immunity must provide proof of first injection to [nusmedicine\\_ohc@nullparkwayshenton.com](mailto:nusmedicine_ohc@nullparkwayshenton.com) failing which, they will not be allowed to attend lessons in hospitals.

The above Health Requirements are subject to change. All updates will be available on our Corporate Website at <http://www.med.nus.sg/corporate/>

## Bonds for Medical Students

Candidates admitted to the Medical course at the NUS and who are not in receipt of Public Service Commission (PSC)/Ministry of Defence (MINDEF) scholarships/ bursaries, are required to serve the Government of Singapore upon successful completion of the course for a number of years as stated in the following table:

SINGAPOREANS		SINGAPORE PR AND INTERNATIONAL STUDENTS
No. of Years of Bond	5 (excluding housemanship / first year residency training)	6 (excluding housemanship / first year residency training)

Those awarded PSC/MINDEF scholarships/bursaries will be bonded according to the terms of their respective awards.

Students are required to sign agreements with the Government to serve the bond periods as specified. Your acceptance of the offer of admission to the Medical course is conditional upon you signing the agreements with the relevant authority in the year of entry to the University.

Students who fail to fulfil the bond obligations will be required to pay liquidated damages (LD), amounting to the actual amount of tuition grants given, pro-rated by the number of completed months of service. Failure to obtain the MBBS or to complete the MBBS course within the time stipulated by NUS will also be considered a breach of the provisions of the Agreement.

Please note that candidates are required to sign the agreement only in the year that they are matriculating in NUS.

For signing of the bond, two persons are required to stand as your sureties. Your sureties should:

- a. Be above 21 years of age and preferably under 65 years of age;
- b. Not be in bankruptcy;
- c. Either be:
  - i. Able to provide proof of financial means to pay the scholarship liabilities should it become due, viz. banker's guarantee or proof of ownership of assets\*;  
or is
  - ii. Gainfully employed and drawing an income of at least S\$1,000 per month;
  - iii. Not party to an existing bond, scholarship or bursary; and
  - iv. Not bonded for an existing scholarship, bursary or study loan agreement.

**\*Note:**

**The asset(s) must be owned by the surety (not mortgaged) and the purchase value of the asset(s) must not be less than the quantum of liquidated damages.**

For Singaporeans/Singapore Permanent Resident students, the first surety should be a Singapore Citizen. The second surety can be a Singapore Citizen or Singapore Permanent Resident. For international students, sureties can be non-citizens if they are parents of the non-citizen students. Otherwise, each surety must either be a Singapore Citizen or Singapore Permanent Resident.

If you need further information, please visit the Ministry of Health website at [https://www.moh.gov.sg/content/moh\\_web/healthprofessionalsportal/allhealthcareprofessionals/career\\_practice/medical\\_dental\\_undergraduate\\_agreement.html](https://www.moh.gov.sg/content/moh_web/healthprofessionalsportal/allhealthcareprofessionals/career_practice/medical_dental_undergraduate_agreement.html) or contact the Ministry of Health at Tel: 6325 9104.

## **Educational Aims**

The aim of the medical curriculum is to produce graduates who are excellent Residents or House Officers and servant leaders, with the foundation to undergo further training to become excellent clinicians and specialists, clinician researchers, clinician scholars, or health administrators.

The curriculum aims to support Singapore's goal of becoming a regional centre of excellence in healthcare, by meeting the needs of the aging population, and by fostering translational research as an engine of growth for the economy.

## **Education Outcomes**

Our graduates will:

- be equipped with sound medical knowledge;
- be able to provide quality patient care;
- demonstrate excellent interpersonal and communication skills;
- uphold high standards of professionalism;
- engage in continual practice-based learning & improvement; and
- engage in systems-based practice.

## **Medical Knowledge**

- Demonstrate a thorough knowledge of the basic medical sciences and their relationship to the practice of medicine.
- Understand and apply the scientific basis of medicine as well as principles of the social-behavioural sciences to the diagnosis, management and prevention of disease, and to the maintenance of health.

## **Patient Care**

- Achieve a sufficient level of medical knowledge and clinical skill to be a highly competent medical practitioner who will be an effective house officer on graduation and have the capacity for further training to be a proficient general practitioner or specialist.

- Demonstrate the ability for effective and efficient data collection, synthesis and critical analysis in the prevention, diagnosis and management of disease.
- Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

## **Interpersonal and Communication Skills**

- Develop skills in effective communication with patients and their relatives, with colleagues and for scholarly communication.
- Develop leadership skills and team skills to be an effective member of the healthcare delivery team.

## **Professionalism**

- Display the attributes of compassion, honesty and integrity in relating to patients, families and the medical community.
- Adhere to the highest standards of professionalism, ethical behaviour and practice.
- Appreciate the limits of his/her clinical ability and seek assistance from more experienced colleagues where appropriate.

## **Practice-based Learning and Improvement**

- Demonstrate intellectual curiosity and the habit and skills for life-long learning and professional development.
- Develop the skills necessary to investigate and evaluate patient care based on scientific evidence, and proactively contribute to improve patient care.

## **Systems-based Practice**

- Develop a sound knowledge of the system of healthcare, and be able to garner resources for optimal treatment and quality delivery of healthcare to patients.

## **Longitudinal Tracks**

There are several broad-based curricular components that are integrated with biomedical sciences and clinical teaching, running through various Phases of the undergraduate medical course:

### **• Health Ethics, Law and Professionalism**

The Health Ethics, Law and Professionalism (HELP) longitudinal track aims to develop ethical sensitivity, theoretical understanding, reflective and critical skills, and professional attitudes in medical undergraduates through all five years of the curriculum. It is student- and patient-centred; case-related, multidisciplinary and inter-professional; fully integrated into all phases of the curriculum; and regularly assessed, both formatively and summatively.

### **• Information Literacy**

This longitudinal track aims to enable all students to gather and critically evaluate research information, effectively incorporate the selected information into their knowledge base and apply the knowledge in



patient care, and also to lay the foundation for future training in carrying out high quality research.

- **Medicine and Society**

This longitudinal track aims to expose students to the concepts of preventive healthcare at the population and individual level, with emphasis on the epidemiology of common communicable and non-communicable diseases, as well as on vulnerable groups. It also aims for students to gain an understanding of the influence and relevance of behavioural, social, cultural, environmental and economic factors that will assist in their promotion of health and management of illness as future doctors.

- **Patient-based Programme and Clinical Skills Foundation Programme**

These two Programmes aim to give medical students an introduction to the Singapore healthcare system, the practice of medicine and the importance of the preclinical sciences. Students will be trained to become practitioners with skills in listening and questioning, and who understand and reflect on patient-centred care. Examples of skills that the students are expected to achieve are the ability to conduct and manage an open interview; introduction to the physical examination; the ability to evaluate and reflect on their interviewing skills; and to understand another person from that person's point of view. These longitudinal tracks begin in Phase I (Year One) and will run through to the end of Phase II (Year Two) of the curriculum.

## **Course of Study**

Satisfactory completion of all components of the curriculum is required for graduation. The course of study for students admitted from AY2008/09 onwards is as follows:

<b>Phase I (Year 1)</b>	Introduction to Health & Disease	<b>Longitudinal Tracks:</b> <ul style="list-style-type: none"> <li>• Health Ethics, Law &amp; Professionalism;</li> <li>• Medicine &amp; Society;</li> <li>• Information Literacy;</li> <li>• Patient-based Programme;</li> <li>• Clinical Skills Foundation Programme.</li> </ul>
	Musculoskeletal System	
	Blood, Respiratory & Cardiovascular Systems	
	Renal, Fluid & Electrolyte Systems	
	Gastrointestinal, Nutrition & Metabolism Systems	
	Endocrine & Reproduction Systems	
	Neuroscience with Head & Neck	
<b>Phase II (Year 2)</b>	Genetics and Genomics	
	Cancer Biology	
	Immunology	
	Clinical Microbiology & Infection	
	Principles of Pharmacology and Systemic Pharmacology	
	Principles of Pathology and Systemic Pathology	
	Neuroscience & Musculoskeletal	
	Foundations in Geriatric Medicine	
	Clinical Skills Foundation Programme	
<b>Phase III (Year 3)</b>	Family Medicine	
	Medicine	
	Orthopaedic Surgery	
	Paediatrics	
	Surgery	
	Electives	
<b>Phase IV (Year 4)</b>	Acute Care comprising Anaesthesia and Emergency Medicine	
	Obstetrics and Gynaecology	
	Psychological Medicine	
	Forensic Medicine	
	Ophthalmology	
	Otolaryngology	
	Community Health Posting	
	Electives	
<b>Phase V (Year 5)</b>	Medicine Student Internship Programme	
	Surgery Student Internship Programme	
	Paediatrics Student Internship Programme	
	Geriatric Medicine Student Internship Programme	
	Orthopaedic Surgery Student Internship Programme	
	Dermatology	
	Infectious Diseases	
	Clinical Skills and Life Support Training	
	Electives	

## **Examinations**

At the end of each year of study, examinations leading to the degrees of Bachelor of Medicine and Bachelor of Surgery (MBBS) are held as set out below. A candidate must pass each examination before proceeding to the next stage of study leading to the degrees.

The examinations for students admitted from AY2008/09 onwards are as follows:

YEAR OF STUDY	EXAMINATION	MODULES
<b>Phase I (Year 1)</b>	First Professional	<p>Normal Structure and Function (MD1140):</p> <ul style="list-style-type: none"> <li>• Introduction to Health &amp; Disease</li> <li>• Musculoskeletal system</li> <li>• Blood, Respiratory and Cardiovascular systems</li> <li>• Renal, Fluid &amp; Electrolyte systems</li> <li>• Gastrointestinal, Nutrition &amp; Metabolism systems</li> <li>• Endocrine &amp; Reproduction systems</li> <li>• Neuroscience with Head and Neck</li> </ul>
<b>Phase II (Year 2)</b>	Second Professional	<p>Abnormal Structure and Function (MD2140):</p> <ul style="list-style-type: none"> <li>• Genetics and Genomics</li> <li>• Cancer Biology</li> <li>• Immunology</li> <li>• Clinical Microbiology &amp; Infection</li> <li>• Principles of Pharmacology and Systemic Pharmacology</li> <li>• Principles of Pathology and Systemic Pathology</li> <li>• Neuroscience &amp; Musculoskeletal</li> <li>• Foundations in Geriatric Medicine</li> </ul> <p>Clinical Skills Foundation Programme (MD2150)</p>
<b>Phase III (Year 3)</b>	Third Professional	<p>Core Clinical Practice (MD3140):</p> <ul style="list-style-type: none"> <li>• Family Medicine</li> <li>• Medicine</li> <li>• Orthopaedic Surgery</li> <li>• Paediatrics</li> <li>• Surgery</li> </ul>
<b>Phase IV (Year 4)</b>	Fourth Professional	<p>Acute and Specialty Clinical Practice (MD4140):</p> <ul style="list-style-type: none"> <li>• Obstetrics and Gynaecology</li> <li>• Psychological Medicine</li> <li>• Acute Care comprising Anaesthesia and Emergency Medicine</li> <li>• Specialties Posting comprising Forensic Medicine, Ophthalmology and Otolaryngology</li> </ul>

YEAR OF STUDY	EXAMINATION	MODULES
<b>Phase V (Year 5)</b>	Final Professional	Medicine (MD5140) <ul style="list-style-type: none"> <li>• Medicine Student Internship Programme (SIP)</li> <li>• Geriatric Medicine SIP</li> <li>• Paediatrics SIP</li> <li>• Specialties Posting comprising Dermatology and Infectious Disease</li> </ul> Surgery (MD5150) <ul style="list-style-type: none"> <li>• Surgery SIP</li> <li>• Orthopaedic Surgery SIP</li> <li>• Clinical Skills and Life Support Training</li> </ul>

## Policies and Rules on Examinations

(Contact for queries: Karen Tan 6772-7558 email: medtssk@nus.edu.sg )

### Policies on Examination

1. The course of study for the degrees of Bachelor of Medicine and Bachelor of Surgery lasts five years and consists of modules and tracks prescribed by the Yong Loo Lin School of Medicine.
2. The Examination Policies and Rules described below apply to students entering the respective year of study for academic year 2016/2017.
3. There are five examinations leading to the degrees of Bachelor of Medicine and Bachelor of Surgery, namely:

The First Professional, Second Professional, Third Professional, Fourth Professional and Final Professional Examination. A candidate must pass all requirements as set out in the Rules on Examination before proceeding to the next stage of study leading to the degree.

4. A candidate who fails the main examination or any part thereof may be permitted to take a supplementary examination for the part(s) that was failed.
5. A candidate may be granted up to a maximum of two calendar years of medical leave or leave of absence during the whole course of study. This may be extended only under extenuating circumstances, with the approval of the Dean.

6. Candidates shall not be permitted to take more than six (6) years, excluding approved leaves of absence, from the time of his/her admission to the course of study, to complete the prescribed examinations for the degrees of Bachelor of Medicine and Bachelor of Surgery.

7. A distinction in any module of the course may be awarded by the Board of Examiners to a candidate who at his/her first sitting at the main examination obtains not less than 85% of the aggregate marks assigned to the module and not less than 50% in any other required module of that Phase.

8. Students may submit an application for Special Consideration, if they have circumstances that may adversely affect their examination performance. The application will be reviewed on a case-by-case basis, according to principles set by NUS Special Consideration Guidelines (<https://myportal.nus.edu.sg/studentportal/academics/all/docs/Guidelines-on-Special-Consideration.pdf>).

## **Rules on Examinations**

### **First Professional Examination**

1. A candidate for the First Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase I of the undergraduate medical programme.
2. A candidate may be eligible to enter Phase II when he/she has:
  - Obtained 50% of the aggregate marks assigned to each required module;
  - Obtained 50% of the aggregate marks assigned to the end of academic year examination; and
  - Obtained 50% of the marks assigned to each paper of the end of academic year examination.
3. Subject to Policies 1 to 8 above, a candidate who fails the First Professional Examination shall be re-examined at a supplementary examination in that Phase as follows:
  - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake all the papers of the required module's end of academic year examination.
  - where the candidate failed any paper of the required module's end of academic year examination – to be re-examined in that paper only.
4. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.
5. No candidate shall be permitted to take more than two (2) years from the time of his/her admission to the course of study for the degrees of Bachelor of Medicine and Bachelor of Surgery to complete the First Professional Examination.

### **Second Professional Examination**

1. A candidate for the Second Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase II of the undergraduate medical programme.
2. A candidate may be eligible to enter Phase III, when he/she has:
  - Obtained 50% of the aggregate marks assigned to each required module (theory and clinical);
  - Obtained 50% of the aggregate marks assigned to each required module's end of academic year

examination (theory and clinical); and

- Passed a prescribed number of assessment points of the clinical module at the end of academic year examination.
3. Subject to Policies 1 to 8 above, a candidate who fails the Second Professional Examination shall be re-examined at a supplementary examination in that Phase as follows:
    - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake the required module's end of academic year examination.
    - where the candidate failed any of the required module's end of academic year examination – to retake the required module's end of academic year examination.
  4. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.

### Third Professional Examination

1. A candidate for the Third Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase III of the undergraduate medical programme.
2. A candidate who fails or who does not complete any one (1) continual assessment prescribed for Phase III shall be permitted to take the Third Professional Examination. A candidate who fails or who does not complete any two (2) continual assessments prescribed for Phase III shall not be eligible to take the Third Professional Examination and shall only be eligible to take the supplementary examination as his/her first and final attempt. A candidate who fails or who does not complete any three (3) continual assessments prescribed for Phase III shall have to repeat the whole course of study for that Phase. For any failed continual assessment, a candidate will need to remediate and pass all the failed continual assessments before embarking on Phase V clinical postings.
3. A candidate may be eligible to enter Phase IV, when he/she has:
  - Obtained 50% of the aggregate marks assigned to each required module;
  - Obtained 50% of the aggregate marks assigned to each component (theory and clinical) of the end of academic year examination; and
  - Passed a prescribed number of assessment points of the clinical component of the end of academic year examination.
4. Subject to Policies 1 to 8 above, a candidate who fails the Third Professional Examination shall be examined at a supplementary examination in that Phase as follows:
  - where the candidate failed to obtain 50% of two continual assessments – to take the supplementary examination as his/her first and final attempt.
  - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake all the components of the required module's examination.
  - where the candidate failed any component of the required module's end of academic year examination – to be re-examined in that component only.
5. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.

### Fourth Professional Examination

1. A candidate for the Fourth Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase IV of the

undergraduate medical programme.

2. A candidate who fails or who does not complete any one (1) continual assessment prescribed for Phase IV shall be permitted to take the Fourth Professional Examination. A candidate who fails or who does not complete any two (2) continual assessments prescribed for Phase IV shall not be eligible to take the Fourth Professional Examination and shall only be eligible to take the supplementary examination as his/her first and final attempt. A candidate who fails or who does not complete any three (3) continual assessments prescribed for Phase IV will have to repeat the whole course of study for that Phase. For any failed continual assessment, a candidate will need to remediate and pass all the failed continual assessments before embarking on Phase V clinical postings.
3. A candidate may be eligible to enter Phase V, when he/she has:
  - Obtained 50% of the aggregate marks assigned to each required module;
  - Obtained 50% of the aggregate marks assigned to each component (theory and clinical) of the end of academic year examination; and
  - Passed a prescribed number of assessment points of the clinical component of the end of academic year examination.
4. Subject to Policies 1 to 8 above, a candidate who fails the Fourth Professional Examination shall be examined at a supplementary examination in that Phase as follows:
  - where the candidate failed to obtain 50% of two major continual assessments – to take the supplementary examination as his/her first and final attempt.
  - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake all the components of the required module's end of academic year examination.
  - where the candidate failed any component of the required module's end of academic year examination – to be re-examined in that component only.
5. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.

### Final Professional Examination

1. A candidate for the Final Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase V of the undergraduate medical programme. There are two modules in Phase V, namely Medicine and Surgery. For the avoidance of doubt and without limitation to the foregoing, a candidate must:
  - pass all continual assessments prescribed for the Third and Fourth Year of Study, at first attempt or during remedial postings done as part of his/her electives, before he/she is eligible to undergo any posting in the Medicine and Surgery modules of Phase V; and
  - pass all final year continual assessments in order to be eligible for the Final Professional Examination
2. A candidate who fails or who does not complete any one (1) or two (2) continual assessment(s) in any module prescribed for Phase V shall not be eligible to take the Final Professional Examination for that module, and shall only be eligible to take the supplementary examination as his/her first and final attempt. A candidate who fails or who does not complete any three (3) continual assessments in a module prescribed for Phase V shall have to repeat the whole course of study (Phase V) for that module.
3. A candidate has passed a module when he/she:
  - Obtained 50% of the aggregate marks assigned to each required module;
  - Obtained 50% of the required module's end of academic year examination;
  - Obtained 50% of the aggregate marks assigned to the clinical component of the end of academic year examination of the module; and



- Passed a prescribed number of assessment points of the clinical component of the end of academic year examination.
4. Subject to Policies 1 to 8 above, a candidate who fails any module shall be examined at a supplementary examination in that module as follows:
- Where the candidate failed to obtain 50% in one (1) or two (2) continual assessment(s) in a module – to take the supplementary examination in that module as his/her first and final attempt.
  - Where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessment – to retake all the components of the required module's examination.
  - Where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination – to retake all the components of the required module's examination.
  - Where the candidate failed the clinical component of the end of academic year examination for that module – to retake all the components of the required module's examination.
5. A candidate who fails or for whatever reason misses a supplementary examination in any module must repeat the whole course of study for that module.

### **3.2.2 Bachelor of Science (Nursing) / Bachelor of Science (Nursing) (Honours)**

#### **Admissions**

Admission of candidates into the BSc (Nursing) programme will be based on the academic merit of and in open competition with all eligible applicants. Candidates must fulfil the minimum university requirements for admission to full-time undergraduate studies.

To be eligible to apply for admission, applicants need to present:

- The Singapore – Cambridge GCE ‘A’ Level certificate, or
- A diploma from a polytechnic in Singapore, or
- Equivalent international qualifications.

#### **Subject Requirement**

Applicants should also satisfy the subject prerequisites which require a H2 or HL pass in any two of the following at GCE ‘A’ Level or International Baccalaureate respectively: Biology, Chemistry, Computing, Physics, and Mathematics.

#### **Advanced Placement / Exemption (APC)**

Polytechnic graduates of certain diplomas admitted into the BSc (Nursing) programme may be granted advanced placement credits as follows:

<b>POLYTECHNIC</b>	<b>DIPLOMA</b>	<b>MODULES GRANTED APC</b>	<b>MODULAR CREDITS (MCS)</b>	
Nanyang Polytechnic	Nursing	NUR1113 Health and Well-being for Older Adults	4	49
		NUR1114 Fundamentals of Nursing	4	
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
		NUR1119 Medical/Surgical Nursing I	4	
		NUR1120 Comprehensive Health Assessment	4	
		SC2211 Medical Sociology	4	
		NUR1121 Pathophysiology and Pharmacology for Nurses I	4	
		NUR1110 Effective Communication for Health Professionals	4	
		NUR2122 Psychology for Nurses	4	
		NUR1107A Nursing Practice Experience 1.1	2	
		NUR1108A Nursing Practice Experience 1.2	7	

<b>POLYTECHNIC</b>	<b>DIPLOMA</b>	<b>MODULES GRANTED APC</b>	<b>MODULAR CREDITS (MCS)</b>	
Ngee Ann Polytechnic	Health Sciences (Nursing) (HSN)	NUR1113 Health and Well-being for Older Adults	4	49
		NUR1114 Fundamentals of Nursing	4	
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
		NUR1119 Medical/Surgical Nursing I	4	
		NUR1120 Comprehensive Health Assessment	4	
		SC2211 Medical Sociology	4	
		NUR1121 Pathophysiology and Pharmacology for Nurses I	4	
		NUR1110 Effective Communication for Health Professionals	4	
		NUR2122 Psychology for Nurses	4	
		NUR1107A Nursing Practice Experience 1.1	2	
		NUR1108A Nursing Practice Experience 1.2	7	
	Pharmacy Science (PHARM)	NUR1117 Anatomy and Physiology I	4	8
		NUR1118 Anatomy and Physiology II	4	

<b>POLYTECHNIC</b>	<b>DIPLOMA</b>	<b>MODULES GRANTED APC</b>	<b>MODULAR CREDITS (MCS)</b>	
Republic Polytechnic	Biomedical Sciences	NUR1117 Anatomy and Physiology I	4	8
		NUR1118 Anatomy and Physiology II	4	
	Biotechnology	NUR1117 Anatomy and Physiology I	4	8
		NUR1118 Anatomy and Physiology II	4	
	Pharmaceutical Sciences (DPS)	NUR1117 Anatomy and Physiology I	4	8
		NUR1118 Anatomy and Physiology II	4	
	Sports and Exercise Sciences (DSES)	NUR1117 Anatomy and Physiology I	4	8
		NUR1118 Anatomy and Physiology II	4	
Singapore Polytechnic	Applied Chemistry with Pharmaceutical Sciences Biomedical Sciences	NUR1117 Anatomy and Physiology I	4	8
		NUR1118 Anatomy and Physiology II	4	
	Perfumery and Cosmetic Science	NUR1117 Anatomy and Physiology I	4	8
		NUR1118 Anatomy and Physiology II	4	
Temasek Polytechnic	Pharmaceutical Sciences	NUR1117 Anatomy and Physiology I	4	8
		NUR1118 Anatomy and Physiology II	4	

## Interview of Candidates

All short-listed candidates, local and foreign, will be asked to attend an interview in April. The selection of students for the BSc (Nursing) programme will be determined by traits such as communication skills, emotional maturity and ability to be reflective about one's work as well as academic achievement.

## Health Requirements

Please refer to Health Requirements in Section 3.2.1.

## **Scholarships, Sponsorships and Bursaries**

Scholarships, sponsorships and bursaries are offered by the Alice Lee Centre for Nursing Studies, the National University of Singapore, Ministry of Health (MOH) and various healthcare agencies. For more information regarding scholarships, sponsorships and bursaries, please visit

[http://medicine.nus.edu.sg/nursing/prg\\_ug\\_scholarship.shtml](http://medicine.nus.edu.sg/nursing/prg_ug_scholarship.shtml).

## **Bond**

Candidates who are in receipt of scholarships/sponsorships/bursaries are required to serve the bond as stipulated by the respective funding agencies.

## **Educational Objectives**

On completion of the BSc (Nursing) / BSc (Nursing) (Honours) programme, a graduate will be a:

- Competent registered nurse who provides safe and informed care with compassion based on current knowledge, theory and research evidence.
- Critical thinker able to question, interpret, apply, analyse and evaluate knowledge to make independent decisions.
- Coordinator of primary, secondary, and tertiary healthcare resources to meet patients' needs.
- Effective communicator who collects, uses, and disseminates information to optimise care outcomes.
- Advocate for the promotion and maintenance of good health, and for the rights of patients in the healthcare system.
- Exemplary professional nurse role model committed to the learning of self and others.
- Leader and researcher in nursing and related healthcare fields.

## Curriculum Structure for BSc (Nursing)\* / BSc (Nursing)(Honours)\*\*

Year 1	Semester 1	NUR1110	Effective Communication for Health Professionals
		NUR1113	Health and Well-being for Older Adults
		NUR1114	Fundamentals of Nursing
		NUR1117	Anatomy and Physiology I
		NUR1107A	Nursing Practice Experience 1.1
	Semester 2	NUR1118	Anatomy and Physiology II
		NUR1119	Medical/Surgical Nursing I
		NUR1120	Comprehensive Health Assessment
		NUR1121	Pathophysiology and Pharmacology for Nurses I
	Special Term 1	NUR1108A	Nursing Practice Experience 1.2
Year 2	Semester 1	NUR2113	Mental Health Nursing
		NUR2116	Medical/Surgical Nursing II
		NUR2118	Pathophysiology and Pharmacology II
		NUR2120	Professional Nursing Practice, Ethics and Law
		NUR2106A	Nursing Practice Experience 2.1
	Semester 2	MIC2000	Infection and Immunology
		SC2211	Medical Sociology
		NUR2121	Maternal and Child Health Nursing
		NUR2122	Psychology for Nurses
	Special Term 1	NUR2107A	Nursing Practice Experience 2.2

Year 3	Semester 1	NUR3109	Introduction to Research, Evidence and Nursing Practice
		NUR3113	Medical/Surgical Nursing III
		NUR3117	Community Integrated Health Care
		NUR3105A	Nursing Practice Experience 3.1
	Semester 2	NUR3114	Leadership and Management
		NUR3118	Consolidated Clinical Simulation Nursing Practice
		NUR3116A	Transition to Professional Practice Experience
Honours	NUR4101	Evidence-based Health Care Practice (Sem 1 & 2)	
	NUR4102A	Consolidated Clinical Practice (Sem 2)	
	NUR4103A	Applied Research Methods (Sem 1 & 2)	
	NUR4104	Honours Project in Nursing (Sem 1 & 2)	
	Unrestricted Elective		

**\*Students have to take 2 General Education or Unrestricted Elective Module to make up 120MCs for the BSc (Nursing) programme requirement.**

## Assessment

A basic tenet in the application of assessment principles is the need to ensure that assessment strategies, both formative and summative, must be consistent with and match the desired learning outcomes identified. A fundamental and commonly known fact in education is that assessment drives student learning, and that well-designed assessment instruments will have a positive steering effect on student learning and learning outcomes. In the selection and design of assessment instruments it is critical, therefore, to adopt best practices which will ensure matching with the desired learning outcomes that will drive students learning in a positive way.

Assessment strategies that will be implemented for the BSc (Nursing) programme will:

- Be holistic and designed to test the cognitive, psychomotor and affective domains of learning.
- Test the various levels of learning (knows, knows how, performs, does) as described in the Miller's pyramid (Miller, 1990).
- Ensure the validity and reliability of test instruments used for both formative and summative assessments e.g. integrated, scenario-based multiple-choice questions (MCQs) and extended matching items (EMIs) which test higher-order thinking skills will replace recall, rote-memory-based Multiple



Choice Questions (MCQs).

- Include testing of clinical skills, log book record of clinical practice and case presentations at clinical conferences in its clinical assessment.
- Include multiple test instruments based on their utility with respect to the validity, reliability and practicality.
- Base pass/fail judgement on, whenever applicable, pre-determined criteria (i.e. criterion-based assessment).

GRADING OF ASSESSMENT AND CUMULATIVE AVERAGE POINTS (CAP)			
Grade	Grade Point	Grade	Grade Point
A+	5.0	C+	2.5
A	5.0	C	2.0
A-	4.5	D+	1.5
B+	4.0	D	1.0
B	3.5	F (Fail)	0.0
B-	3.0		

### **3.3 Special Programmes**

#### **Undergraduate Research Opportunities Programme (UROP)**

The Yong Loo Lin School of Medicine is committed to training outstanding doctors to serve the community and patients with care and integrity. We strive to establish the School as a centre of research excellence. To achieve this, a key approach is to develop and nurture our students to meet the research challenges of the 21st century. A research programme called the Undergraduate Research Opportunities Programme (UROP) is available for our medical undergraduates. Undergraduate research in non-clinical and clinical departments, under the supervision of faculty staff, is usually conducted during the vacation period in Phase I to Phase III of the curriculum. The clinical departments also offer opportunities for research in Phase IV and V. Students who participate and contribute in UROP will have due credits endorsed in their final-year academic transcripts. In addition, research projects of excellence may be submitted for consideration for research prizes awarded by the School.

### 3.4 Financial Assistance and Awards

The School has several bursaries available to full-time undergraduate MBBS students who are in need of financial assistance to help them through their course of study. For more information regarding these financial assistance and the application procedure, please visit :

[http://medicine.nus.edu.sg/corporate/education.html#/medicine\\_admission](http://medicine.nus.edu.sg/corporate/education.html#/medicine_admission)

There are several bursaries available to full-time undergraduate BSc (Nursing) students who are in need of financial assistance to help them through their course of study. For more information regarding these bursaries, the conditions of award and application, please visit:

[http://medicine.nus.edu.sg/nursing/prg\\_ug\\_scholarship.shtml](http://medicine.nus.edu.sg/nursing/prg_ug_scholarship.shtml)

## **4 Graduate Education**

4.1 [Research Programmes](#)

4.2 [Cancer Science Institute of Singapore \(CSI\) PhD Programme](#)

4.3 [Graduate Coursework Programme in Clinical Research](#)

4.4 [Research Programmes in Nursing](#)

4.5 [Graduate Examinations, Coursework and Allied Health Programmes Programmes: Division of Graduate Medical Studies \(DGMS\)](#)

4.6 [Graduate Coursework Programme in Nursing](#)

## 4.1 Research Programmes

The School of Medicine has a strong graduate programme that will be a significant factor in making the University a world-class tertiary institution, and providing the industry with highly competent biomedical scientists and clinician-scientists who will spearhead and drive the medical biotechnology efforts.

### 4.1.1 [Degrees Offered](#)

### 4.1.2 [Degree Requirements](#)

### 4.1.3 [Financial Assistance and Awards](#)

### **4.1.1 Degrees Offered**

The students are enrolled for the MSc or PhD programme at admission and fulfil requirements to graduate either with a generic MSc or PhD degree. Students will engage in supervised research with staff members from any of the departments for their period of candidature, at the end of which, they submit a thesis that is examined by a Board of Examiners.

Only those candidates who have fulfilled the criteria for PhD will be awarded the PhD degree. All other candidates will have to fulfil the criteria for the MSc in order to be awarded the MSc degree.

## 4.1.2 Degree Requirements

### Admission Requirements

#### MSc Programme

- A relevant Bachelor's degree with at least a Second Class Honours or its equivalent
- The degree of Bachelor of Medicine and Bachelor of Surgery (MBBS) or
- The degree of Bachelor of Dental Surgery and
- The ability to pursue research in the candidate's proposed field of advanced study.

#### PhD Programme

- A good Master's degree in a relevant discipline or
- A relevant Bachelor's degree with at least a Second Upper Class Honours or its equivalent
- The degrees of Bachelor of Medicine and Bachelor of Surgery (MBBS) or
- The degree of Bachelor of Dental Surgery and
- The ability to pursue research in the candidate's proposed field of advanced study.

### Other Requirements

#### TOEFL

As the medium of instruction is English, applicants whose native tongue and medium of undergraduate instruction is not English must submit TOEFL scores as evidence of their proficiency in the English Language. Exemptions will be given to applicants with distinctions in the Cambridge GCE 'O' level examination English Language Paper 1119. The minimum TOEFL score required is 580/237/85 for the paper-based, computer-based and internet-based tests respectively. For IELTS, the minimum score required is 6.5.

#### GRE

Applicants (except NUS & NTU graduates from relevant disciplines) must also submit GRE scores to support their application. A minimum total GRE score of 320 for the verbal and quantitative sections and 3.5 for the analytical section is required.

### Credit Transfer and Exemptions

Credit transfer and exemption are allowed subject to the following conditions:

- □ There is no limit to the transfer of credit for relevant modules that have not been used towards another degree at NUS or elsewhere.
- For relevant modules that have been credited towards another degree elsewhere, up to 50% of the modular credits (MCs) required in the coursework component of the NUS graduate research programme into which the candidate seeks admission may be exempted.
- For relevant NUS modules that have been credited towards another degree at NUS, on a case-by-case basis and subject to approval, more than 50% of the MCs required in the coursework component of the NUS graduate research programme may be allowed credit and grade transfer.
- Only graduate modules at Level-5000 and above which are relevant to the degree programme to which the candidate seeks admission at NUS can be considered for credit transfer or exemption. In addition,

only modules that have substantially the same learning objectives, content, and level of sophistication as the corresponding NUS module can be considered for credit transfer/exemption.

- Credit transfer and exemption is allowed only for modules that are taken less than five years before the date of admission.
- Applications for credit transfer or exemptions must be submitted within the first semester of study, preferably within two weeks of the start of the semester.

## **Curriculum Structure and Requirements**

Candidates admitted to the graduate programme will undertake research under the supervision of staff members from the School for their period of candidature, at the end of which, they submit a thesis that is examined by a Board of Examiners. In addition, they are required to fulfil a coursework component comprising the following, to graduate either with a MSc or a PhD degree:

MSc : A total of 16 modular credits comprising of two core modules + elective modules (at Level-5000)

PhD : A total of 24 modular credits comprising of two core modules + elective modules (at Level-5000 & 6000)

To be confirmed a PhD candidate, a student is required to pass a PhD qualifying examination within two years from the date of admission.

Candidates deemed weak in English by the School would also have to sit for the Diagnostic English Test and take additional English Language courses conducted by the Centre for English Language Communication.

All PhD candidates are required to take ES5002 (Advanced Level Writing) regardless of their performance in the Diagnostic English Test.

## **Residency Requirements and Candidature**

### Residency requirements

All candidates must spend a minimum period of residence in Singapore as follows:

MSc : 6 months (one semester)

PhD : 18 months (three semesters)

### Residency Requires:

- a. Payment of fees
- b. Satisfying all curricular requirements of the programme of study
- c. Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, MSc and PhD candidates must be resident during the semester in which they submit their thesis for examination.



### Candidature

The following maximum candidature periods are inclusive of periods of approved study leave and leave of absence.

MSc : 36 months

PhD : 60 months

## **Continuation and Graduation requirements**

### Continuation

For continuation of candidature, candidates have to meet the following CAP set for coursework:

MSc : CAP should not fall below 2.5 for two consecutive semesters or 3.0 for three consecutive semesters

PhD : CAP should not fall below 3.0 for two consecutive semesters or 3.5 for three consecutive semesters

Termination of candidature would result if a student fails to maintain the minimum CAP as stipulated above.

For any semester in which the MSc candidate's CAP falls below 3.0 (but  $\geq 2.5$ ), he/she will be issued an academic warning. If, in the following semester, the candidate's CAP again falls below 3.0, he/she will be placed on probation. If the candidate's CAP remains below 3.0 for the third consecutive semester, the candidate will be issued a letter of dismissal by the Registrar and denied re-admission.

For MSc candidates, if the CAP falls below 2.5 for two consecutive semesters, they will be placed on probation for the first semester, followed by dismissal in the second semester.

For any semester in which the PhD candidate's CAP falls below 3.5 (but  $\geq 3.0$ ), he/she will be issued an academic warning. If, in the following semester, the candidate's CAP again falls below 3.5, he/she will be placed on probation. If the student's CAP remains below 3.5 for the third consecutive semester, the student will be issued a letter of dismissal by the Registrar and denied re-admission.

For PhD candidates, if the CAP falls below 3.0 for two consecutive semesters, they will be placed on probation for the first semester, followed by dismissal in the second semester.

A student may also be issued a warning or placed on probation or be issued a letter of termination for poor performance in the PhD qualifying examination, research thesis, or other programme requirements.

### Graduation Requirements

## MSc

- Pass all prescribed core and elective modules with a minimum CAP of 3.0 (B-) for the prescribed modules
- Pass the Master's Thesis
- A minimum grade of C+ for all levels of English course(s), where applicable

## PhD

- Pass all prescribed core and elective modules with a minimum CAP of 3.5 (B) for the prescribed modules
- Pass the Qualifying Examination
- Pass the PhD Thesis and Oral Examination
- A minimum grade of C+ for all levels of English course(s), where applicable

## **Leave of absence**

The University policies on leave of absence shall apply.

## **Examination rules**

The University policies on examination rules shall apply.

### **4.1.3 Financial Assistance and Awards**

Financial support in the form of scholarships is available for qualified candidates. These range from S\$1,500 – S\$3,500 per month for MSc and PhD candidates respectively.

Some additional support for projects in certain strategic research areas is also available. There may also be opportunities for earning additional income as part-time tutors and demonstrators.

To be eligible for the research scholarship, applicants must possess at least a Second Class Upper Honours degree.

## 4.2 Cancer Science Institute of Singapore (CSI) PhD Programme

The CSI Singapore PhD Graduate Programme in Cancer Biology seeks to attract top scientific and medical talents interested in a career in cancer research. Graduate students will have access to world-class facilities dedicated to cancer research and can look forward to working with a dynamic global team of renowned specialized scientists and clinicians in an intellectually stimulating environment.

This programme also aims to produce high-calibre researchers who are capable of independent research investigation, who will contribute original ideas that advance their specific field of cancer research, and are well-equipped to pursue careers in basic or translational cancer.

### 4.2.1 [Degrees Offered](#)

### 4.2.2 [Admission Requirements](#)

### 4.2.3 [Financial Assistance and Awards](#)

### **4.2.1 Degrees Offered**

The students are enrolled for the PhD programme at admission and fulfil requirements to graduate with a generic PhD degree. There is no specialisation of the degrees awarded. Students will engage in supervised research with staff members from the Institute for their period of candidature, at the end of which, they submit a thesis that is examined by a Board of Examiners.

Only those candidates who have fulfilled the criteria for PhD will be awarded the PhD degree.

## 4.2.2 Admission Requirements

### PhD Programme

- A good Master's degree in a relevant discipline; or
- A relevant Bachelor's degree with at least a Second Upper Class Honours or its equivalent;
- The degrees of Bachelor of Medicine and Bachelor of Surgery (MBBS) and;
- The ability to pursue research in the candidate's proposed field of advanced study.

### Other Requirements

#### TOEFL/IELTS

As the medium of instruction is English, applicants whose native tongue and medium of university undergraduate instruction is not English must submit TOEFL scores as evidence of their proficiency in the English Language. The minimum TOEFL score required is 580/237/85 for the paper-based, computer-based and internet-based tests respectively. Exemptions will be given to applicants with distinctions in the Cambridge GCE 'O' level examination English Language Paper 1119.

For IELTS, the minimum score required is 6.5.

The TOEFL/IELTS scores are valid for 2 years from the test date.

#### GRE

Applicants (except NUS & NTU graduates from relevant disciplines) must also submit GRE scores to support their application. A minimum total GRE score of 320 for the verbal and quantitative sections and of 3.5 for the analytical section is required.

The GRE scores are valid for 5 years from the test date.

### Curriculum Structure and Requirements

Candidates admitted to the graduate programme will undertake research under the supervision of staff members from the Institute for their period of candidature, at the end of which, they submit a thesis that is examined by a Board of Examiners. In addition, they are required to fulfil a coursework component comprising the following, to graduate with a PhD degree:

PhD : A total of 24 modular credits comprising of four core modules + 2 elective modules (at Level-5000 & 6000)

To be confirmed a PhD candidate, a student is required to pass a PhD qualifying examination within two

years from the date of admission.

Candidates deemed weak in English by the School would also have to sit for the Diagnostic English Test and take additional English Language courses conducted by the Centre for English Language Communication.

All PhD candidates are required to take ES5002 (Advanced Level Writing) regardless of their performance in the Diagnostic English Test.

## **Residency Requirements And Candidature**

### Residency requirements

All candidates must spend a minimum period of residence in Singapore as follows:

PhD : 18months (three semesters)

Residency Requires:

- a) Payment of fees (not applicable to full-time candidates)
- b) Satisfying all curricular requirements of the programme of study
- c) Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, PhD candidates must be resident during the semester in which they submit their thesis for examination.

### Candidature

The following maximum candidature periods are inclusive of periods of approved study leave and leave of absence.

PhD : 60 months

### Laboratory Rotation Scheme

All full-time candidates will be subjected to laboratory rotation scheme to identify a suitable supervisor. This scheme requires candidates to participate in a minimum of two to a maximum of three laboratory rotations before choosing a supervisor. Each rotation will last two months. Candidates should confirm a supervisor by the end of the laboratory rotation scheme.

To achieve an even distribution of students among the labs, each supervisor in CSI Singapore will only be allowed to take in one full-time candidate per intake. As such, candidates may not be able to join the lab

of their choice.

## **Continuation and Graduation Requirements**

### Continuation

For continuation of candidature, candidates have to meet the following CAP set for coursework:

PhD : CAP should not fall below 3.0 for two consecutive semesters or 3.6 for three consecutive semesters

Termination of candidature would result if a student fails to maintain the minimum CAP as stipulated above.

For any semester in which the PhD CAP falls below 3.6 (but  $\geq 3.0$ ), he/she will be issued an academic warning. If, in the following semester, the candidate's CAP again falls below 3.6, he/she will be placed on probation. If the student's CAP remains below 3.6 for the third consecutive semester, the student will be issued a letter of dismissal by the Registrar and denied re-admission.

For PhD candidates, if the CAP falls below 3.0 for two consecutive semesters, they will be placed on probation for the first semester, followed by dismissal in the second semester.

A student may also be issued a warning or placed on probation or be issued a letter of termination for poor performance in the PhD qualifying examination, research thesis, or other program requirements.

### Graduation Requirements

- Pass all prescribed core and elective modules with a minimum CAP of 3.6 for the prescribed modules
- Pass the Qualifying Examination
- Pass the PhD Thesis and Oral Examination
- A minimum grade of C+ for all levels of English course(s), where applicable

### Leave of absence

The University policies on leave of absence shall apply.

### Examination rules

The University policies on examination rules shall apply.



### 4.2.3 Financial Assistance and Awards

Financial support in the form of scholarships is available for qualified candidates. Full-time Singaporean PhD students will be awarded a monthly stipend of \$3400 and employer's CPF contribution of 17%. Full-time Permanent Resident (PR) and International PhD students will be awarded a monthly stipend of S\$3200. Scholarship includes conference allowance of up to S\$10,000, laptop allowance along with book and software allowance.

#### Interviews

All shortlisted applicants will be required to attend an interview.

#### Application

Application opens from 15 October to 15 February every year. Please visit our website at <http://www.csi.nus.edu.sg/ws/graduate-program/introduction/admission-req...>

## **4.3 Graduate Coursework Programme in Clinical Research**

The Master of Clinical Investigation (MCI) is a new programme which commenced in August 2008. The programme, which is completed in 2 years, aims to equip clinicians with basic methodological and practical skills to design and conduct clinical investigations that are relevant to patient care. The MCI programme will also provide a good foundation for those aiming to pursue advanced clinical research training, including training programmes leading to a PhD degree.

### **Degree Requirements**

- An MBBS or equivalent degree from a recognised university
- Candidates have entered specialist training or residency programme
- At least two years of post-registration clinical experience

### **Curriculum Structure**

The MCI programme caters only for part-time students with a candidature period of two years, open to extension to a maximum of three years if more time is required for the research component. The 40-modular credit (MC) programme structure would comprise 8 modules (32 MCs) for coursework (80%) and a research component (20%) of 8 MCs. For the research component, students would work under the supervision of a group of mentors (established clinical investigators/researchers).

## 4.4 Research Programmes in Nursing

Current challenges facing the health care system offer opportunities for nursing research to make a substantial impact on the health of the population and to improve approaches to patient care. There is a shift in emphasis from treatment to prevention of illness and from acute illness to chronic conditions as well as an urgent need to translate successful research findings into clinical practice. The research training agenda in the Alice Lee Centre for Nursing Studies (ALCNS) aims to position nursing research at the forefront of the health care sciences. Teaching processes in the graduate research programmes aim to develop a dynamic, vital, and productive community of investigators who conduct rigorous research to establish the scientific and evidence base for patient care.

### Objectives:

The MSc (Nursing) and PhD programmes aim to develop graduates characterised by their:

- ability to identify, formulate, and address problems through research;
- drive for evidence based nursing research and practice;
- creative and strategic approach to lead the nursing profession nationally and internationally;
- entrepreneurial spirit to lead innovation which will impact on the profession and the health care industry.

#### 4.4.1 [Degrees Offered](#)

#### 4.4.2 [Admission Requirements](#)

#### 4.4.3 [Degree Requirements and Curriculum Structure](#)

#### 4.4.4 [Financial Assistance and Awards](#)

### 4.4.1 Degrees Offered

The following degrees will be offered:

- Master of Science (Nursing) [MSc (Nursing)]
- Doctor of Philosophy [PhD]

The MSc (Nursing) degree is designed to provide research training specifically for nurses who have a Bachelor Degree without an Honours component. It will provide both stand-alone postgraduate research training as well as a pathway into the PhD programme for nurses without an Honours degree.

The PhD will be offered with two flexible options:

**Option A:** A traditional thesis of a maximum of 80,000 words; or

**Option B:** An integrated thesis by publication of a maximum of 80,000 words.

## 4.4.2 Admission Requirements

### Admission Requirements

#### MSc (Nursing) Programme

- Possess a current Registered Nurse license with the Singapore Nursing Board
- Have a minimum of 3 years nursing experience at the point of entry into the course
- A Bachelor's degree with at least a Second Honours class or its equivalent; or
- Coursework Master's degree with a CAP of 3.5 or above; or
- Bachelor's degree and evidence of outcomes from a research project equivalent to 25% of one year's full-time study

#### PhD Programme

- Possess a current Registered Nurse license with the Singapore Nursing Board
- Have a minimum of 3 years nursing experience at the point of entry into the course
- A Bachelor's degree with at least a Second Upper Honours class or its equivalent; or
- Coursework Master's degree with a CAP of 3.5 or above.
- Candidates are also expected to have the ability to pursue research in their proposed field of advanced study.

### Other Requirements

#### TOEFL/IELTS

As the medium of instruction is English, applicants whose native tongue and medium of university undergraduate instruction is not English must submit TOEFL scores as evidence of their proficiency in the English Language. The minimum TOEFL score required is 580/237/85 for the paper-based, computer-based and internet-based tests respectively. Exemptions will be given to applicants with distinctions in the Cambridge GCE 'O' level examination English Language Paper 1119.

For IELTS, the minimum score required is 6.

The TOEFL/IELTS scores are valid for 2 years from the test date.

#### GRE

Applicants (except NUS, NTU and SMU graduates from relevant disciplines) should also submit GRE scores to support their application. The minimum total GRE score of 320 for both Verbal and Quantitative sections and a minimum of 3.5 for the Analytical section are required.

The GRE scores are valid for 5 years from the test date.

### Credit Transfer and Exemptions

Credit transfer and exemption are allowed subject to the following conditions:

- There is no limit to the transfer of credit for relevant modules that have not been used towards another

degree at NUS or elsewhere.

- For relevant modules that have been credited towards another degree elsewhere, up to 50% of the modular credits (MCs) required in the coursework component of the NUS graduate research programme into which the candidate seeks admission may be exempted.
- For relevant NUS modules that have been credited towards another degree at NUS, on a case-by-case basis and subjective to approval, more than 50% of the MCs required in the coursework component of the NUS graduate research programme may be allowed credit and grade transfer.
- Only graduate modules at Level-5000 and above which are relevant to the degree programme to which the candidate seeks admission at NUS can be considered for credit transfer or exemption. In addition, only modules that have substantially the same learning objectives, content, and level of sophistication as the corresponding NUS module can be considered for credit transfer/exemption.
- Credit transfer and exemption is allowed only for modules that are taken less than five years before the date of admission.
- Application for credit transfer or exemption must be submitted to ALCNS within two weeks from the date of admission.

### 4.4.3 Degree Requirements and Curriculum Structure

#### Degree Requirements and Curriculum Structure

The MSc (Nursing) is comprised of 20 module credits and a 40,000 word thesis.

The PhD is comprised of 28 module credits and an 80,000 word thesis.

Students will undertake research under the supervision of staff members from the ALCNS for their period of candidature, at the end of which, they submit a thesis for examination by the Thesis Examination Panel. In addition to the research component, students are required to fulfil a coursework component comprising of the following:

MSc (Nursing) : 3 core + 1 elective modules

PhD : 3 core + 3 elective modules

Modules taken will be at levels 5000 and 6000 and must be equivalent to at least 4 module credits. Elective modules can be chosen from those offered by ALCNS or any School or Research Institutes/Centres affiliated with the National University of Singapore (subject to the university guidelines). These are subject to the approval of the supervisors and the Head of ALCNS.

To be confirmed a PhD candidate; a student is required to pass a PhD qualifying examination within two years from the date of admission.

Candidates deemed weak in English by the ALCNS would also have to sit for the Diagnostic English Test and take additional English Language courses conducted by the Centre for English Language Communication.

All PhD candidates are required to take ES5002 (Advanced Level Writing) regardless of their performance in the Diagnostic English Test.

#### Residency Requirements and Candidature

##### Residency requirements

All candidates must spend a minimum period of residence in Singapore as follows:

MSc (Nursing) : 6 months (one semester)

PhD : 18 months (three semesters)

Residency requires:

- a. Payment of fees;
- b. Satisfying all curricular requirements of the programme of study; and
- c. Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, MSc (Nursing) and PhD candidates must be resident during the semester in which they submit their thesis for examination.

### Candidature

The following maximum candidature periods are inclusive of periods of approved study leave and leave of absence.

MSc (Nursing) : 36 months (Full-time & Part-time)

PhD : 60 months (Full-time & Part-time)

## **Continuation and graduation requirements**

### Continuation

For continuation of candidature, candidates have to meet the following Cumulative Average Point (CAP) set for coursework:

MSc (Nursing) : CAP should not fall below 2.5 for two consecutive semesters or 3.0 for three consecutive semesters

PhD : CAP should not fall below 3.0 for two consecutive semesters or 3.5 for three consecutive semesters

Termination of candidature would result if a student fails to maintain the minimum CAP as stipulated above.

For any semester in which the MSc (Nursing) candidate's CAP falls below 3.0 (but  $\geq 2.5$ ), he/she will be issued an academic warning. If, in the following semester, the candidate's CAP again falls below 3.0, he/she will be placed on probation. If the candidate's CAP remains below 3.0 for the third consecutive semester, the candidate will be issued a letter of dismissal by the Registrar and denied re-admission.

For MSc (Nursing) candidates, if the CAP falls below 2.5 for two consecutive semesters, they will be placed on probation for the first semester, followed by dismissal in the second semester.

For any semester in which the PhD candidate's CAP falls below 3.5 (but  $\geq 3.0$ ), he/she will be issued an academic warning. If, in the following semester, the candidate's CAP again falls below 3.5, he/she will be placed on probation. If the student's CAP remains below 3.5 for the third consecutive semester, the



student will be issued a letter of dismissal by the Registrar and denied re-admission.

For PhD candidates, if the CAP falls below 3.0 for two consecutive semesters, they will be placed on probation for the first semester, followed by dismissal in the second semester.

A student may also be issued a warning or placed on probation or be issued a letter of termination for poor performance in the PhD qualifying examination, research thesis, or other programme requirements.

Such a student may appeal the dismissal if there are extenuating circumstances. The appeal must be submitted to the ALCNS within two calendar weeks of the last day of the release of each semester's examination results. Generally, a student is allowed only one such appeal per candidature. If the appeal is rejected, the student will not be readmitted. If the outcome of the appeal is positive, the student will be given one semester in which to achieve the minimum CAP required for continuation and graduation.

## **Graduation Requirements**

### **MSc (Nursing)**

- Pass three core and one elective modules (with 20 module credits)
- A CAP of at least 3.0 (B-) in the elective module
- A Satisfactory grade in the three core modules
- Pass the MSc (Nursing) Thesis
- A minimum grade of C+ for all levels of English course(s) where applicable

### **PhD**

- Pass three core and three elective modules (with 28 module credits)
- A CAP of at least 3.5 (B) in the elective modules
- A Satisfactory grade in the three core modules
- Pass the Qualifying Examination comprising of a comprehensive written examination and oral defence of the PhD Thesis proposal
- Satisfactory performance at the annual PhD Symposium (formative assessment)
- Pass the PhD Thesis and Oral Examination
- A minimum grade of C+ for all levels of English course(s), where applicable

### **Leave of absence**

The University policies on leave of absence shall apply.

### **Examination rules**

The University policies on examination rules shall apply.

#### **4.4.4 Financial Assistance and Awards**

Financial support in the form of scholarships is available for qualified candidates on full-time study. These range from S\$1,500 – S\$3,300 per month for MSc and PhD candidates respectively. Additional support for projects is also available.

To be eligible for the research scholarship, applicants must possess at least a Second Class Upper Honours degree.

## **4.5 Graduate Examinations, Coursework and Allied Health Programmes: Division of Graduate Medical Studies (DGMS)**

### **Master of Medicine**

The Master of Medicine offered by the Division is based on two to four years of clinical training in approved training hospitals. Assessments are based on multi-format examinations and generally taken by doctors during their training (known as Residency Training) towards becoming specialists.

The Master of Medicine degree is offered in the following specialties/disciplines:

- Anaesthesiology
- Diagnostic Radiology
- Emergency Medicine
- Family Medicine
- Internal Medicine
- Obstetrics & Gynaecology
- Ophthalmology
- Orthopaedic Surgery
- Otorhinolaryngology
- Paediatric Medicine
- Psychiatry
- Surgery

DGMS also offers short one-to-two-week examination preparatory courses to specifically help candidates prepare for their examinations. These are usually held three-to-four weeks before the examinations. Any doctor may enrol although priority may be given to those taking the examinations.

### **Graduate Diploma Programmes**

The Division offers part-time Graduate Diploma programmes in Family Medicine, Family Practice Dermatology, Geriatric Medicine, Mental Health, Occupational Medicine and Palliative Medicine for doctors (mainly GPs practising in Singapore). A Diploma programme in Tissue Banking, also a part-time programme, is offered, in joint collaboration with the Department of Orthopaedic Surgery, National University Hospital.

For more information, please visit: <http://www.med.nus.edu.sg/dgms>

### **Master of Science (Speech and Language Pathology)**

The Master of Science (Speech and Language Pathology) programme is a two-year professional practice training course with 18 compulsory modules. The programme is designed for graduates from any discipline who are seeking a career working with children and/or adults as a speech and language pathologist.

For more information, please visit: <http://medicine.nus.edu.sg/dgms/SLP/Home.html>

## **Master of Science (Audiology)**

This graduate-entry programme is set up to address the public demand for locally trained Audiologists. It is the only coursework based study of its kind in Singapore and offered in collaboration with the University of Melbourne. It is customised with a distinct Asian framework and distinguishes itself from other programmes by incorporating a multi-disciplinary approach with related modules covering psychology, public health, engineering, business and innovation. Students are given the opportunity to integrate academics, clinical practice and research, which will be carried out in a purpose built facility, clinic and in collaboration with government research institutes, universities, industry and international partners.

For more information, please visit: <http://medicine.nus.edu.sg/dgms/audiology>

## 4.6 Graduate Coursework Programme in Nursing

### Master of Nursing Programme

The 24-month Master of Nursing (MN) programme is established to meet a national need to equip nurses with advanced knowledge and skills for clinical management of patients, and to enhance the use of research findings as the basis of effective practice.

Graduates of the MN programme are eligible to apply for certification as an Advanced Practice Nurse (APN) with the Singapore Nurses Board (SNB).

### The Curriculum

#### Aims of the Programme

The MN programme aims to prepare the graduate:

- to be a competent and safe Advanced Practice Nurse (APN) who exercise informed clinical judgment in delivery of evidence-based care that will improve patient outcomes;
- to function as clinical consultant, role model, and clinical leaders to lead innovation which will impact on the profession and the health care industry;
- to pursue life-long learning and be responsible for their competencies with up-to-date clinical practice.
- to perform up to Singapore Nursing Board APN competencies requirement and confident in delivering care in both acute care and community settings

### Admission Requirements

Applicants who fulfil all entry requirements and have good recommendation from Chief Nurse / Director of Nursing and Head of Department will be offered direct entry into the programme.

Eligible applicants (non-direct entry) will be requested to attend admission interview.

### Entry Requirements

To be eligible for the programme, applicants must:

- |  |
|--|
| <ul style="list-style-type: none"><li>a) be registered with the Singapore Nursing Board as a Registered Nurse; <b>and</b></li><li>b) possess a Bachelor's degree in nursing from an accredited programme; <b>and</b></li><li>c) have a CAP of 3.2 or equivalent ( for those not graduated in NUS); and</li><li>d) have a minimum TOEFL score of 580/237/85 for the paper-based, computer-based and internet-based respectively. (for applicants whose native tongue or medium of undergraduate instruction is not English); <b>and</b></li></ul> |
|--|

- e) have a Post-registration Advanced Diploma in Nursing Specialty and/or its equivalent and a minimum of 2 years of post-Advanced Diploma experiences in the area of specialty; **or**
- f) have a minimum of 5 years of post-registered experiences with at least 3 years in the area of specialty.

**\*\* Note:** SNB will not grant provisional license to MN graduates who did not meet the entry requirements.

## Fee

Tuition fees (covering 4 semesters): S\$38, 720 (inclusive of GST)

## Application

Application opens from 1 March to 30 April every year. Please visit our website at [http://medicine.nus.edu.sg/nursing/prg\\_mn\\_intro.shtml](http://medicine.nus.edu.sg/nursing/prg_mn_intro.shtml) for more information.

## Programme Structure

The 24-month Master of Nursing programme comprises of 80 modular credits (MCs). It has 4 tracks: Adult Health, Mental Health, Acute Care and Paediatrics. All students, regardless of track, will be required to complete and pass 14 modules. The table below illustrates the modules to be taken under the different tracks.

## How to Apply

For more information, please visit the programme website: [http://medicine.nus.edu.sg/nursing/prg\\_ngrp\\_intro.shtml](http://medicine.nus.edu.sg/nursing/prg_ngrp_intro.shtml).

### Detailed Programme Structure of Master of Nursing 2016 Curriculum

	Adult Health	Mental Health	Acute Care	Paediatrics
<b>Core Clinical Modules (24 MC)</b>	<b>NUR5101</b> Advanced Health Assessment (8MC) <b>NUR5102</b> Applied Pathophysiology (8MC) (Year Long)			<b>NUR5601</b> Advanced Health Assessment (Paed) (6MC) <b>NUR5602</b> Advanced Pathophysiology (Paed) (6MC)
	<b>NUR5011</b> Clinical Pharmacology 1 (4MC) <b>NUR5012</b> Clinical Pharmacology 2 (4MC)			

<b>Generic/ Theoretical Modules (16MC)</b>	<b>NUR5201</b> Profession Development and Transformation (4MC) <b>NUR5203</b> Evidence Based Healthcare (8MC)(Year Long) <b>NUR5207</b> Ethics in Healthcare (4MC)			
<b>Electives Choose Two (8MC)</b>	<b>NUR5009</b> Principles and Practice of Palliative Care (4MC) <b>NUR5002</b> Statistic for Health Research (4MC) <i>Other university-wide electives e.g. Sociology Department, Public Health Department and etc.(level 5000 modules)</i>			
<b>Clinical Modules (12MC)</b>	<div>Adult Health                      Mental Health                      Acute Care                      Paediatrics</div>			
	<b>NUR5301</b> Approaches to Clinical Symptoms and Signs (4MC)			<b>NUR 5603</b> Advanced Paediatric Nursing I (6MC)
	<b>NUR5302</b> Advanced Gerontological Nursing (4MC)	<b>NUR5401</b> Advanced Psychopathology (4MC)	<b>NUR5502</b> Advanced Critical Care Nursing I(4MC)	<b>NUR5604</b> Advanced Paediatric Nursing II (6MC)
	<b>NUR5303</b> Integrated Primary and Community Care (4MC)	<b>NUR5402</b> Advanced Psychosocial Interventions (4MC)	<b>NUR5503</b> Advanced Critical Care Nursing II(4MC)	<b>NUR5605</b> Advanced Paediatric Nursing III (4MC)
<b>Clinical Practicum (20MC)</b>	<b>NUR5311</b> Clinical Practicum I (12MC) (12 weeks) <sup>1</sup>			<b>NUR5611</b> Clinical Practicum I (Paed) (12MC)
	<b>NUR5312</b> Clinical Practicum II (8MC) (8 weeks) <sup>2</sup>			<b>NUR5612</b> Clinical Practicum II (Paed) (8MC)

<sup>1</sup> NUR5311 covers 6 generic areas: Cardiology, Respiratory, Gastroenterology, Neurology, Emergency, Psychiatrics or Community

<sup>2</sup> NUR5312 covers 4 weeks in General Medicine and students are allowed to choose a maximum 4 weeks of their own preferred posting areas with consensus from their sponsoring organization

