

Yong Loo Lin School of Medicine

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Website: <http://nusmedicine.nus.edu.sg>, www.facebook.com/NUSMedicine

1 About the School

Ranked one of Asia's best medical education and research institutions, NUS Medicine admits 280 to 300 students every year into its undergraduate degree programme and produces 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 and allied health 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 School's website at <http://nusmedicine.nus.edu.sg/about>)

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE (6772-XXXX)	EMAIL (XXXX@NULLNUS.EDU.SG)
Prof CHONG Yap Seng	Dean	6379	meddean
Assoc Prof LAU Tang Ching	Vice-Dean (Education)	6193	mdcltc
Prof CHNG Wee Joo	Vice-Dean (Research)	4612	mdccwj
Assoc Prof SU Lin Lin	Vice-Dean (Academic Affairs)	4273	obgssl
Assoc Prof SHEK Pei-Chi, Lynette	Vice-Dean (Enterprise)	3353	paeshekl
Assoc Prof TAN Shyong- Wei, Kevin	Vice-Dean (Graduate Studies)	65166780	mictank
Mr TEO Kheng Lin Stewart	Director (Finance)	3811	medtkls
Mr SIM Tiong Kian	Director (Administration)	3788	medsimt
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TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE (6772-XXXX)	EMAIL (XXXX@NULLNUS.EDU.SG)
Mr Jayanandan KAELASH	Director (Strategy & Operational Development)	7550	medkj
Dr Raja KAMAL	Senior Director (NUS Medicine International Council)	6149	medraja
Mr Nigel Ignatius YEUNG Kwok Kheu	Director (Continuing Education & Training - Executive Education)	3724	medniykk

Departments/Divisions

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

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	EMAIL (XXXX@NULLNUS.EDU.SG)
Assoc Prof TI Lian Kah	Head, Department of Anaesthesia	6772 4200	anahead
Assoc Prof Shaikali Thameem DHEEN	Head, Department of Anatomy	6516 3127	anthead
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

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	EMAIL (XXXX@NULLNUS.EDU.SG)
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 CHOOLANI Mahesh Arjandas	Head, Department of Obstetrics and Gynaecology	6772 4285	obghead
Assoc Prof Clement TAN Woon Teck	Head, Department of Ophthalmology	6772 5338	ophhead
Prof HUI Hoi Po, James	Head, Department of Orthopaedic Surgery	6772 4331	doshead
Assoc Prof LOH Woei Shyang	Head, Department of Otolaryngology	6772 5372	enthead
Prof LEE Yung Seng	Head, Department of Paediatrics	6772 4112	paehead
Assoc Prof TAN Soo Yong	Head, Department of Pathology	6772 4300	pathead
Assoc Prof Fred WONG Wai-Shiu	Head, Department of Pharmacology	6516 3266	phchead
Assoc Prof Reshma Taneja	Acting 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

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	EMAIL (XXXX@NULLNUS.EDU.SG)
Assoc Prof CHEN Fun Gee, Edward	Director, Division of Graduate Medical Studies	6601 4949	gsmhead

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 and health professional education.

CenMED aims to provide two core functions namely:

Academic Function

- Initiate, organise, design and conduct faculty development programmes in medical and health professional education pedagogy.
- Undertake and enhance scholarship and research in medical and health professional education.
- Establish the Yong Loo Lin School of Medicine and National University Health System as centres of excellence for medical and health professional education and training in the region and beyond by providing quality training courses in various aspects of medical and health professional education.
- Support both students and residents to develop relevant pedagogical skills to effectively engage in teaching and educational research.

Service Function

- Provide educational leadership and expertise in the development of educational policies and procedures based on best evidence in medical and health professional 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 Dujeepa 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 years of medical and nursing training.

The 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 programmes 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

Senior Assistant Director: Mr Devin Wong

Tel: 6601 1976

E-mail: medwwhd@nullnus.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 for the Master of Medicine (MMed) examinations of which five are offered jointly with the Royal Colleges in the United Kingdom. Besides MMed examinations and their examination preparatory courses, the DGMS also offers six Graduate Diploma programmes, two Allied Health professional degrees, namely the Master of Science (Speech and Language Pathology) and Master of Science (Audiology). The Division is also responsible for the conduct of qualifying examinations for Speech and Language Therapists and Advanced Practice Nursing Licensing in Singapore.

Head: Assoc Prof Chen Fun Gee

Assistant Director: Ms Goh Mei Ling

Tel: 6601 4848

E-mail: gohml@nullnus.edu.sg

Phase Directors

TITLE & NAME	DESIGNATION/ RESPONSIBILITY	TELEPHONE	EMAIL (XXXX@NULLNUS.EDU.SG)
Dr Kenneth BAN	Year 1 (Phase I)	6516 3246	bchbhkk
Assoc Prof TAN Kong Bing	Year 2 (Phase II)	6772 2057	pattankb
Asst Prof Bettina LIESKE	Year 3 (Phase III)	6772 2399	surbl
Asst Prof Gene CHAN	Year 4 (Phase IV)	6772 6229	gene_wh_chan@nullnuhs.edu.sg
Asst Prof Derek SOON	Year 5 (Phase V)	6772 2002	mdcstld

Administrative Coordinators

A. Undergraduate Medical Studies

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE (6772-XXXX)	FAX	EMAIL (XXXX@NULLNUS.EDU.SG)
Curriculum, Assessment, Electives, Inter-professional Education, Centre for Healthcare Simulation				
Mr Devin WONG	Senior Assistant Director (Curriculum, Assessment, Electives, Inter-professional Education, Centre for Healthcare Simulation)	6601 1976	-	medwwhd
Ms Joanne WONG	Assistant Manager (Curriculum & Assessment)	6601 5642	6778 5743	medwyhj
Ms ANG Shu Shing	Senior Assistant Manager (Centre for Healthcare Simulation)	6601 1520	-	medangss
Ms HAFIZAH Binte Ibrahim	Assistant Manager (Centre for Healthcare Simulation)	6601 2989	-	medhi
Admissions, Student Affairs, Global Health				
Ms CHONG Siew Ling	Manager (Student Affairs)	6601 3477	6778 5743	medchon

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE (6772-XXXX)	FAX	EMAIL (XXXX@NULLNUS.EDU.SG)
Ms Janice LOH	Assistant Manager (Financial Aid)	6601 3622	6778 5743	medljyj
Ms Candy LIM	Assistant Manager (Admissions & outreach)	6601 5037	6778 5743	medlylc
Ms MAHANOM Binte Ahmad	Senior Executive (Global Health)	6601 5641	6778 5743	gohelp
Education Technology				
Mr GOH Kong Wei	Senior Assistant Manager (Education Technology)	6770	6778 5743	medgkw
Plans, Administrations & Relations				
Dr Amanda GOH	Assistant Director	3746	6778 5743	amanda.m.goh
Ms Kayla QUAH	Senior Executive (Student Feedback System)	3784	6778 5743	medbox46

B. Undergraduate Nursing Studies

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	FAX	EMAIL (XXXX@NULLNUS.EDU.SG)
Mrs LEE Elaine	Deputy Director	6516 3320	-	nurleee
Ms HOI Lai Meng	Senior Manager (Undergraduate Programmes)	6516 5087	-	nurhlm

C. Graduate Studies

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	FAX	EMAIL (XXXX@NULLNUS.EDU.SG)
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TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	FAX	EMAIL (XXXX@NULLNUS.EDU.SG)
Ms TAN Stacy	Senior Manager (MSc/PhD Research Programme)	6772 3704	6778 5743	medtanbh
Ms TAN Xuan Min	Senior Executive (Cancer Science Institute of Singapore PhD Programme)	6516 7287	6873 9664	csitxm
Mr Michael LIM Seow Ping	Assistant Manager (Master of Clinical Investigation Programme)	6772 7545	6778 5743	medlspm
Ms GOH Mei Ling	Assistant Director Division of Graduate Medical Studies	6601 4848	-	gohml
Ms YEO Chwee Geok Doris	Manager Master of Science in Speech and Language Pathology	6516 6740	-	entycgd
Mr CHOO Boon Beng Edmund	Assistant Manager Master of Science in Audiology	6601 3613	-	entcbbe
Ms KAN Jia Hui	Assistant Manager (Master of Nursing Programme)	6516 8687	-	nurkjh
Mr SEAH Poh Jie, Terence	Manager (CET Programmes)	6601 7868	-	nurspjt
Ms MARIATI Bte Mohd Noor	Senior Assistant Manager (Graduate Research Programmes in Nursing)	6516 3115	-	nurmmn

D. General Enquiries

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	FAX	EMAIL (XXXX@NULLNUS.EDU.SG)
Ms JURAIDAH Binte Selamat	Undergraduate Medical Studies	6601 5643	6778 5743	medjs
Ms HOI Lai Meng	Senior Manager/Undergraduate Nursing Studies	6516 5087	-	nurhlm
Ms Pauline HUANG	MSc/PhD Research Programme	6772 3727	6778 5743	dgrs
Ms TAN Xuan Min	Cancer Science Institute of Singapore PhD Programme	6516 7287	6873 9664	csitxm
Mr SEAH Poh Jie, Terence	Manager (CET Programmes)	6601 7868	-	nurspjt
Ms KAN Jia Hui	Assistant Manager/ Master of Nursing (MN) Programme	6516 8687	-	nurkjh

TITLE & NAME	DESIGNATION/RESPONSIBILITY	TELEPHONE	FAX	EMAIL (XXXX@NULLNUS.EDU.SG)
Ms MARIATI Bte Mohd Noor	Senior Assistant Manger/ Graduate Research Programmes in Nursing	6516 3115	-	nurbox3
Ms NUR FARHANA Binte Kamsani	Management Assistant Officer/ MMed, Graduate Diploma and Allied Health 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 is taught through five years or phases:

Phase I (Year 1)	Normal Structure and Function	<u>Longitudinal Tracks:</u> <ul style="list-style-type: none"> • Health Ethics, Law & Professionalism • Medicine & Society • Information Literacy • Patient-based Programme • Clinical Skills Foundation Programme • Integrated Care
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 outline above is only applicable to students admitted from 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 who graduated in 2012 and earlier. Students should note that there is a distinction between degree requirements for students who graduated in 2012 and earlier, viz-a-viz 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 revisions to any requirements as soon as reasonably practicable and revised requirements shall apply to students.

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

- An integrated curriculum where students learn basic sciences holistically with stronger correlations to clinical conditions, and understand healthcare delivery across time, space, discipline and acuity;
- Significant curriculum time to collaborative case-based learning and small group teaching;
- Innovative pedagogy and self-directed learning enabled through extensive use of technology;
- Early meaningful clinical exposure;
- Strong emphasis on developing caring and ethical medical professionals;

- Increased emphasis on community care, value-based healthcare, health promotion and disease prevention;
- Student Internship Programme to provide students with real-life practical opportunities for clinical care.

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 \(MBBS\)](#)

3.2.1.1 [Admission Requirements](#)

3.2.1.2 [Curriculum Structure and Requirements](#)

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

3.2.2.1 [Admission Requirements](#)

3.2.2.2 [Curriculum Structure and Requirements](#)

3.2.3 [2-year Bachelor of Science \(Nursing\) Professional Conversion Programme \(PCP\) for Registered Nurses](#)

3.2.3.1 [Admission Requirements](#)

3.2.3.2 [Curriculum Structure and Requirements](#)

3.2.1 Bachelor of Medicine and Bachelor of Surgery (MBBS)

3.2.1.1 [Admission Requirements](#)

3.2.1.2 [Curriculum Structure and Requirements](#)

3.2.1.1 Admission Requirements

Admission to the undergraduate medical programme

Apart from the minimum requirements specified by the NUS Office of Admissions, 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 of the best four content subjects (i.e. three H2 and one H1 content subjects) used in the computation of the University Admission Score, at least one content subject (either H2 or H1) must be from a contrasting discipline.

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

Polytechnic

An accredited polytechnic diploma from a polytechnic in Singapore. Please visit the NUS Office of Admissions website for the list of accredited diplomas for admission to Medicine.

Other Qualification Prerequisites

A good Pass in Chemistry and either Biology or Physics in high school

All applicants must apply online through the [NUS Office of Admissions portal](#) and submit a portfolio to [NUS Medicine Admissions portal](#) consisting of the following:

A personal statement (500 words)

List of co-curricular activities

Official testimonial from your junior college or high school

Two referee reports (applicable only to shortlisted candidate. Instruction and login details will be provided to nominated referees to fill up an online questionnaire consisting of 6-8 questions.)

Candidates will be shortlisted based on the University Admission Score. Shortlisted candidates will be invited to sit for the Focus Skills Assessment (FSA) and Situational Judgement Test (SJT). Applicants who do not meet shortlisting criteria but have exceptional talents or have achieved success in their areas of endeavour may apply to be shortlisted by means of a discretionary admissions process, known as the Exceptional Individual Scheme (EIS). Admission to NUS Medicine will nonetheless be based on performance in the FSA and SJT.

More information can be found on our website at nusmedicine.nus.edu.sg

Health Requirements - Virus Screening and Immunisation

Besides the conditions indicated in the letter of offer, 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 students should be immune or vaccinated. Students should either be screened for immunity, or produce official records of previous vaccinations as proof of immunity. Self-declaration is only acceptable if the history of varicella was based on physician diagnosis. When past history of varicella is uncertain, a serology test should be carried out to confirm immunity against varicella.</p> <p>Students may begin classes without documentary evidence of immunization for Chickenpox if:</p> <ol style="list-style-type: none">i. He/she has a letter from a physician stating that there is a reason why he/she cannot receive the vaccine;ii. He/she concerned has documented evidence of two administrations of the varicella vaccine (non-responders).

HEALTH REQUIREMENT	DETAILS
<p>Tetanus, Diphtheria and Pertussis</p>	<p>All prospective medical/nursing students should receive tetanus toxoid, reduced diphtheria toxoid and acellular pertussis (Tdap) vaccination, if they have not previously received the Tdap vaccination.</p> <p>Students who have previously received Tdap vaccination should receive a booster dose of Td every 10 years. If Td is unavailable, it may be replaced with Tdap.</p> <p>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.</p> <p>Documented proof of vaccination with Tdap or Td in the last 10 years would be acceptable as evidence of immunity. Self-declaration is not considered as proof of immunity.</p>
<p>Blood Bourne Diseases (BBD)</p>	<p><u>Hepatitis B</u></p> <p>All prospective medical/nursing students should be screened for Hepatitis B carriage. Hepatitis B negative students who do not have documented serological evidence of immunity against Hepatitis B (i.e. anti-HBs \geq10 mIU/mL) must 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>Students enrolled in courses that might require them to perform or assist in EPPs must be screened. Screening should be carried out before final admission into the course, as results may affect students' career choices.</p> <p>Students tested positive for Hep B, Hep C and/or HIV will be counselled to understand that their areas of practice will 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. 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
Varicella Zoster (Chickenpox)	15 July 2019	<ul style="list-style-type: none"> • 2 doses; minimum interval of 4-8 weeks apart 	Not Applicable
Mumps Measles Rubella (MMR)		<ul style="list-style-type: none"> • 2 doses; minimum interval of at least 4 weeks apart • Students who only received one dose of MMR during childhood should be vaccinated with second dose of MMR 	To submit proof of first injection by 15 July 2019 To complete by 12 August 2019 Not Applicable
Tetanus, Diphtheria, Pertussis		<ul style="list-style-type: none"> • 1 dose of Tdap, if students have not previously received it, followed by Td booster once every 10 years. 	To complete and submit proof of vaccination by 15 July 2019 Not Applicable
Hepatitis B		<ul style="list-style-type: none"> • Primary vaccination consists of 3 doses over 6 months or a single booster dose 	To submit proof of first injection by 15 July 2019 To complete by 28 February 2020 (Anti-HBs testing) within 1-2 months after completion of the primary 3-dose vaccination series or single booster dose
Hepatitis C		Not Applicable	
HIV	Not Applicable		

Students are to commence submissions of the screenings and vaccination records for each of the above

health requirements at the University Health Centre by the stipulated deadline. Students who do not comply with this requirement 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://nusmedicine.nus.edu.sg>.

Bonds for Medical Students

Candidates admitted to the MBBS undergraduate degree 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 MBBS undergraduate degree course is conditional upon your 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 undergraduate degree 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.

To sign the bond, two persons are required to stand as your sureties. They 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 these 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. Sureties for international students may be non-citizens if they are parents of these 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 or contact the Ministry of Health at tel: 6325 9104.

3.2.1.2 Curriculum Structure and Requirements

Educational Aims

The aim of the medical curriculum is to produce graduates who are competent and compassionate Residents or House Officers committed to serving the Singaporean community, 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 ageing 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 and health informatics data, 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 to conduct high quality research.

• Medicine and Society

This longitudinal track aims to expose students to the concepts of preventive healthcare at the individual and population 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 in local and global settings, which 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, foundations in clinical skills 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.

- **Integrated Care**

As the School places strong emphasis on preparing medical students to work in an integrated healthcare system with an integrated care mind set, Integrated Care aims for students to gain a perspective of and own patient care across time, space, acuity, and discipline. Teaching pedagogies are inter-disciplinary in nature, combining knowledge from Family Medicine, General Medicine, Palliative Medicine, Rehabilitation Medicine, Geriatric Medicine and other community-oriented specialties. This training begins in Phase I with students undergoing a caregiver training session. This provides students with a better appreciation of the multi-dimensional nature of care provision for patients. Combined Teaching Sessions (CTS) in Phases III and IV, conducted in a case-based discussion fashion, will enhance students' integration of discrete patient interactions into a complete and holistic view of a patient's health journey.

Course of Study

Satisfactory completion of all components of the curriculum is required for graduation. The course of study for students admitted from AY2019/20 onwards is as follows:

Phase I (Year 1)	Introduction to Health & Disease
	Foundations of Human Biology: The Cell
	Musculoskeletal System
	Blood, Respiratory & Cardiovascular Systems
	Renal, Fluid & Electrolyte Systems
	Gastrointestinal, Nutrition & Metabolism Systems
	Endocrine & Reproduction Systems
	Neuroscience with Head & Neck

Longitudinal Tracks:

- Health Ethics, Law & Professionalism;
- Medicine & Society;
- Information Literacy;
- Patient-based Programme;
- Clinical Skills Foundation Programme;
- Integrated Care.

Phase II (Year 2)	Genetics and Genomics
	Cancer Biology
	Immunology
	Clinical Microbiology & Infection
	Principles of Pharmacology and Systemic Pharmacology
	Principles of Pathology and Systemic Pathology
	Diagnostic Radiology
	Neuroscience & Musculoskeletal
	Foundations in Geriatric Medicine
	Clinical Skills Foundation Programme
Phase III (Year 3)	General Medicine
	Medicine
	Family and Community Medicine, including Ambulatory Paediatrics and Integrated Care for Older People
	General Surgery
	Orthopaedic Surgery
	Community Health Project
	Electives
Phase IV (Year 4)	Obstetrics and Gynaecology
	Paediatrics
	Acute Care comprising Anaesthesia and Emergency Medicine
	Psychological Medicine
	Forensic Medicine
	Otolaryngology
	Ophthalmology
	Electives
Phase V (Year 5)	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 award of the degrees.

The examinations for students admitted from AY2019/20 onwards are as follows:

YEAR OF STUDY	EXAMINATION	MODULES
Phase I (Year 1)	First Professional	Normal Structure and Function (MD1140): <ul style="list-style-type: none"> • Introduction to Health & Disease • Foundations of Human Biology - The Cell • Musculoskeletal system • Blood, Respiratory and Cardiovascular systems • Renal, Fluid & Electrolyte systems • Gastrointestinal, Nutrition & Metabolism systems • Endocrine & Reproduction systems • Neuroscience with Head and Neck
Phase II (Year 2)	Second Professional	Abnormal Structure and Function (MD2140): <ul style="list-style-type: none"> • Genetics and Genomics • Cancer Biology • Immunology • Clinical Microbiology & Infection • Principles of Pharmacology and Systemic Pharmacology • Principles of Pathology and Systemic Pathology • Diagnostic Radiology • Neuroscience & Musculoskeletal • Foundations in Geriatric Medicine Clinical Skills Foundation Programme (MD2150)
Phase III (Year 3)	Third Professional	Core Clinical Practice (MD3140): <ul style="list-style-type: none"> • Family Medicine • Medicine • Orthopaedic Surgery • Surgery • Community Health Project

YEAR OF STUDY	EXAMINATION	MODULES
Phase IV (Year 4)	Fourth Professional	Acute and Specialty Clinical Practice (MD4140): <ul style="list-style-type: none"> • Obstetrics and Gynaecology • Psychological Medicine • Acute Care comprising Anaesthesia and Emergency Medicine • Specialties Posting comprising Forensic Medicine, Ophthalmology and Otolaryngology
Phase V (Year 5)	Final Professional	Medicine (MD5140) <ul style="list-style-type: none"> • Medicine Student Internship Programme (SIP) • Geriatric Medicine SIP • Paediatrics SIP • Specialties Posting comprising Dermatology and Infectious Disease Surgery (MD5150) <ul style="list-style-type: none"> • Surgery SIP • Orthopaedic Surgery SIP • Clinical Skills and Life Support Training

Policies and Rules on Examinations

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. 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.
3. 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.
4. The Examination Policies and Rules described below apply to students entering the respective year of study for academic year 2018/2019.

5. 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.

6. A candidate who fails the main examination or module, must complete and pass a planned remediation programme before he/she is eligible to sit for the required part(s) of the supplementary exam.

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 is eligible to take the main First Professional Examination if he/she
 - a. has 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 School for Phase I of the undergraduate medical programme
 - b. has passed at least 1 Continuous Assessment (CA)
2. If the candidate does not fulfil the eligibility criteria stated above, the candidate shall only be eligible to take the supplementary examination as his/her first and final attempt. The candidate is required to sit for all the components of the end of academic year supplementary examination.
3. A candidate may be eligible to enter Phase II when he/she has passed Phase I. Passing Phase I is defined as having
 - Achieved a prescribed aggregate marks assigned to MD1140; and
 - Obtained a prescribed aggregate marks assigned to MD1140's end of academic year main First Professional Examination.
4. Subject to Policies 1 to 8 above, a candidate who fails to meet the passing criteria stated above shall be examined at a supplementary examination in Phase I as follows:
 - where the candidate failed to obtain the prescribed aggregate marks assigned to MD1140 - to sit for all the components of the required module's end of year supplementary examination
 - where the candidate failed to obtain the prescribed aggregate marks assigned to the MD 1140's end of academic year main First Professional Examination -to sit for all the components of the required module's end of year supplementary examination
5. A candidate must complete and pass a planned remediation before he/she is eligible to sit for the supplementary exam.
6. A candidate who fails or misses a supplementary examination (even if there is a special case or

special consideration submission) must repeat the whole course of study for Phase I.

7. 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 and pass Phase I.

Second Professional Examination

1. There are two modules in Phase II, namely MD2140 (Theory) and MD2150 (Clinical).
2. A candidate is eligible to take the main Second Professional Examination if he/she
 - a. has 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 School for Phase II of the undergraduate medical programme
 - b. has passed at least 1 Continuous Assessment (CA) in each module
3. If the candidate does not fulfil the eligibility criteria stated above, the candidate shall only be eligible to take the supplementary examination as his/her first and final attempt. The candidate is required to sit for all the components of the end of academic year supplementary examination.
4. A candidate may be eligible to enter Phase III, when he/she has passed Phase II. Passing Phase II is defined as having
 - Obtained a prescribed aggregate marks assigned to each required module (theory and clinical); and
 - Obtained a prescribed aggregate marks assigned to each required module's end of academic year main Second Professional Examination (theory and clinical); and
 - Obtained a prescribed number in assessment points of the clinical module's end of academic year main examination.
5. Subject to Policies 1 to 8 above, a candidate who fails to meet the passing criteria stated above shall be examined at a supplementary examination in Phase II as follows:
 - where the candidate failed to obtain the prescribed aggregate marks assigned to each required module (theory and clinical) - to sit for all the components of the module's supplementary end of academic year examination.
 - where the candidate failed to obtain the prescribed aggregate mark assigned to the required module end of academic year main Second Professional Examination - to sit for all the components of the module's supplementary end of academic year examination
 - where the candidate failed to obtain at least the prescribed number of assessment points in the clinical module's end of year main examination - to sit for all the clinical components of the clinical module's supplementary examination.
6. A candidate must complete and pass a planned remediation before he/she is eligible to sit for the supplementary exam.
7. A candidate who fails or misses a supplementary examination (even if there is a special case or special consideration submission) must repeat the whole course of study of Phase II.

Third Professional Examination

1. A candidate is eligible to take the main Third Professional Examination if he/she
 - a. has 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 School for Phase III of the undergraduate medical programme
 - b. has completed and passed at least three (3) out of four (4) postings prescribed for Phase III
2. If the candidate does not fulfil the eligibility criteria stated above, and if the candidate has completed and passed two (2) out of four (4) postings prescribed for Phase III, the candidate shall only be eligible to take the supplementary examination as his/her first and final attempt. The

- candidate is required to sit for all the components of the supplementary examination.
3. If the candidate does not fulfil the eligibility criteria stated above, and if the candidate has completed and passed less than two (2) out of four (4) postings prescribed for Phase III, the candidate must repeat the whole course of study of Phase III.
 4. For any failed or incomplete posting in Phase III, a candidate will need to remediate and pass that posting before he/she is allowed to enter Phase V.
 5. A candidate may be eligible to enter Phase IV, when he/she has passed Phase III. Passing III is defined as having
 - Obtained a prescribed aggregate marks assigned to MD3140; and
 - Obtained a prescribed aggregate marks assigned to each component (theory and clinical) of the end of academic year main Third Professional Examination; and
 - Obtained a prescribed number of assessment points in the clinical component of the end of academic year main examination.
 6. Subject to Policies 1 to 8 above, a candidate who fails to meet the passing criteria stated above shall be examined at a supplementary examination in Phase III as follows:
 - where the candidate failed to obtain the prescribed aggregate mark assigned to MD 3140- to sit for all the components of the module's supplementary end of academic year supplementary examination
 - where the candidate failed to obtain the prescribed aggregate mark assigned to the theory component of the end of academic year main Third Professional Examination - to sit for all the theory components of the module's end of academic year supplementary examination
 - where the candidate failed to obtain to obtain the prescribed aggregate marks assigned to the clinical component of the end of academic year examination or the prescribed number of assessment points in the clinical component of the end of academic year examination - to sit for all the clinical components of the module's end of academic year supplementary examination
 7. A candidate must complete and pass a planned remediation before he/she is eligible to sit for the supplementary exam.
 8. A candidate who fails or misses a supplementary examination (even if there is a special case or special consideration submission) must repeat the whole course of study of Phase III.

Fourth Professional Examination

1. A candidate is eligible to take the main Fourth Professional Examination if he/she
 - a. has 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 School for Phase IV of the undergraduate medical programme
 - b. has completed and passed at least three (3) out of four (4) postings prescribed for Phase IV
2. If the candidate does not fulfil the eligibility criteria stated above, and if the candidate has completed and passed two (2) out of four (4) postings prescribed for Phase IV, the candidate shall only be eligible to take the supplementary examination as his/her first and final attempt. The candidate is required to sit for all the components of the supplementary examination.
3. If the candidate does not fulfil the eligibility criteria stated above, and if the candidate has completed and passed less than two (2) out of four (4) postings prescribed for Phase IV, the candidate must repeat the whole course of study of Phase IV.
4. For any failed or incomplete posting in Phase IV, a candidate will need to remediate and pass that posting before he/she is allowed to enter Phase V.
5. A candidate may be eligible to enter Phase V, when he/she has passed Phase IV. Passing Phase IV is defined as having
 - Obtained a prescribed aggregate marks assigned to MD4140;
 - Obtained a prescribed aggregate marks assigned to each component (theory and clinical) of the end of academic year main Fourth Professional Examination; and

- Obtained a prescribed number of assessment points in the clinical component of the end of academic year main examination.
6. Subject to Policies 1 to 8 above, a candidate who fails to meet the passing criteria stated above shall be examined at a supplementary examination in Phase IV as follows:
 - where the candidate failed to obtain a prescribed aggregate mark assigned to MD 4140 - to sit for all the components of the module's end of academic year supplementary examination.
 - where the candidate failed to obtain a prescribed aggregate mark assigned to the theory component of the end of academic year main Fourth Professional Examination - to sit for all the theory components of the module's end of academic year supplementary examination.
 - where the candidate failed to obtain prescribed aggregate mark assigned to the clinical component of the end of academic year main examination or the prescribed number of assessment points in the clinical component of the end of year academic examination - to sit for all the clinical components of the module's supplementary end of academic year examination.
 7. A candidate must complete and pass a planned remediation before he/she is eligible to sit for the supplementary exam.
 8. A candidate who fails or misses a supplementary examination (even if there is a special case or special consideration submission) must repeat the whole course of study of Phase IV.

Final Professional Examination

1. 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 postings prescribed for the Third and Fourth Year of Study, at first attempt or during remedial postings, before he/she is eligible to undergo any posting in the Medicine or Surgery modules of Phase V.

Medicine Module

2. A candidate is eligible to take the main Final Professional Examination of the Medicine Module (MD5140) if he/she
 - a. Has 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 School for Phase V of the undergraduate medical programme.
 - b. Has completed and passed all four (4) postings prescribed for the Phase V Medicine module
3. If the candidate does not fulfil the eligibility criteria stated above, and if the candidate has completed and passed only two (2) or three (3) out of four (4) postings prescribed for the Medicine module, the candidate shall only be eligible to take the supplementary examination for that module as his/her first and final attempt. The candidate is required to sit for all the components of that module's supplementary examination.
4. A candidate who completed and passed less than two (2) out of four (4) postings prescribed for the Medicine module shall have to repeat the whole Medicine module for Phase V.

Surgery Module

5. A candidate is eligible to take the main Final Professional Examination of the Surgery Module (MD5150) if he/she

- a. Has 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 School for Phase V of the undergraduate medical programme.
 - b. Has completed and passed all three (3) postings prescribed for the Phase V Surgery module in order
6. If the candidate does not fulfil the eligibility criteria stated above, and if the candidate has completed and passed only one (1) or two (2) out of three (3) postings prescribed for the Surgery module, the candidate shall only be eligible to take the supplementary examination for that module as his/her first and final attempt. The candidate is required to sit for all the components of that module's supplementary examination.
 7. A candidate who completes and passes none of the postings prescribed for the Surgery module shall have to repeat the whole Surgery module for Phase V.

Medicine and Surgery Modules

8. Passing a module is defined as having
 - Obtained a prescribed aggregate mark assigned to the module; and
 - Obtained a prescribed aggregate mark assigned to the module's end of academic year main examination; and
 - Obtained a prescribed aggregate mark assigned to the clinical component of the module's end of academic year main examination; and
 - Obtained a prescribed number of assessment points in the clinical component of the module's end of academic year main examination.
9. Subject to Policies 1 to 8 above, a candidate who fails to meet the module's passing criteria shall be examined at a supplementary examination in that module as follows:
 - Where the candidate failed to obtain a prescribed aggregate mark assigned to the module - to sit for all the components (theory and clinical) of that module's supplementary examination.
 - Where the candidate failed to obtain a prescribed aggregate mark assigned to the module's end of academic year main examination - to sit for all the components (theory and clinical) of that module's supplementary examination.
 - Where the candidate failed to obtain a prescribed aggregate mark assigned to that module's clinical component of the end of academic year main examination - to sit for all the components (theory and clinical) of the required module's supplementary examination.
 - Where the candidate failed to obtain the prescribed number of assessment points in that module's clinical component of the end of year main academic examination - to sit for all the components (theory and clinical) of the required module's supplementary examination.
10. A candidate must complete and pass a planned remediation before he/she is eligible to sit for the supplementary exam.
11. A candidate who fails or misses a supplementary examination (even if there is a special case or special consideration submission) 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)

3.2.2.1 [Admission Requirements](#)

3.2.2.2 [Curriculum Structure and Requirements](#)

3.2.2.1 Admission Requirements

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:

ADVANCE PLACEMENT CREDIT

POLYTECHNIC	DIPLOMA	MODULES GRANTED APC	MODULAR CREDITS (MCS)	MODULAR CREDITS (MCS)
Nanyang Polytechnic	Nursing	NUR1110A Communication and Cultural Diversity	3	50
		NUR1113A Health Ageing and Well-being	4	
		NUR1114A Fundamentals of Care	4	
		NUR1123 Anatomy, Physiology and Physical Assessment I	4	
		NUR1124 Anatomy, Physiology and Physical Assessment II	4	
		NUR1127 Psychology for Nurses	4	
		NUR2113 Mental Health Nursing	4	
		NUR2204C Women and Children Health	4	
		SC2211 Medical Sociology	4	
		NUR1107B Clinical Practice: Community Care I	2	
		NUR1108B Clinical Practice: Medical/Surgical I	6	
	NUR2107B Clinical Practice: Specialty Care	7		
Social Science (Social Work)	SC2211 Medical Sociology	4	4	

ADVANCE PLACEMENT CREDIT

POLYTECHNIC	DIPLOMA	MODULES GRANTED APC	MODULAR CREDITS (MCS)	MODULAR CREDITS (MCS)
Ngee Ann Polytechnic	Health Sciences (Nursing) (HSN)	NUR1110A Communication and Cultural Diversity	3	50
		NUR1113A Health Ageing and Well-being	4	
		NUR1114A Fundamentals of Care	4	
		NUR1123 Anatomy, Physiology and Physical Assessment I	4	
		NUR1124 Anatomy, Physiology and Physical Assessment II	4	
		NUR1127 Psychology for Nurses	4	
		NUR2113 Mental Health Nursing	4	
		NUR2204C Women and Children Health	4	
		SC2211 Medical Sociology	4	
		NUR1107B Clinical Practice: Community Care I	2	
		NUR1108B Clinical Practice: Medical/Surgical I	6	
		NUR2107B Clinical Practice: Specialty Care	7	
Republic Polytechnic	Health Services Management	NUR1110A Communication and Cultural Diversity	3	7
		NUR1127 Psychology for Nurses	4	

Interview of Candidates

Short-listed candidates will be asked to attend an admission interview in April. The selection of students will be determined by their academic achievement as well as the desirable traits for healthcare professionals.

Health Requirements

Please refer to [Health Requirements in Section 3.2.1.1](#).

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/education/scholarships-bursaries-and-financial-aid.html>.

Bond

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

3.2.2.2 Curriculum Structure and Requirements

Educational Objectives

On completion of the BSc (Nursing) / BSc (Nursing) (Honours) programme, a graduate will be a:
Competent registered nurse who provides safe, compassionate and informed care 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	NUR1113A	Healthy Ageing and Well-being
		NUR1114A	Fundamentals of Care
		NUR1123	Anatomy, Physiology and Physical Assessment I
		NUR1125	Pathophysiology, Pharmacology and Nursing Practice I
		NUR1107B	Clinical Practice: Community Care I
	Semester 2	NUR1110A	Communication and Cultural Diversity
		NUR1124	Anatomy, Physiology and Physical Assessment II
		NUR1126	Pathophysiology, Pharmacology and Nursing Practice II
		NUR1127	Psychology for Nurses
	Special Term 1	NUR1108A	Clinical Practice: Medical/Surgical I

Year 2	Semester 1	NUR2113	Mental Health Nursing
		NUR2123	Pathophysiology, Pharmacology and Nursing Practice II
		NUR2204C	Women and Children Health
	Dec Vac/ ST 1&2	NUR2106B	Clinical Practice: Medical/Surgical I (<i>year-long</i>)
		NUR2107B	Clinical Practice: Specialty Care (<i>year-long</i>)
	Semester 2	MIC2000	Infection and Immunology
		SC2211	Medical Sociology
		NUR2120	Professional Nursing Practice, Ethics and Law
NUR2124		Healthy Community Living	
Year 3	Semester 1	NUR3114	Leadership and Management
		NUR3117A	Public and Community Health
		NUR3119	Palliative and End-of-Life Care
		NUR3202C	Research and Evidence-based Healthcare
	Dec Vac/ ST 1&2	NUR3105B	Clinical Practice: Community Care II (<i>year-long</i>)
		NUR3106B	Clinical Practice: Medical/Surgical III (<i>year-long</i>)
	Semester 2	NUR3116B	Transition to Professional Practice Experience [#]
Honours	NUR4101B	Evidence-based Health Care Practice (Sem 1)	
	NUR4102B	Consolidated Clinical Practice (Sem 2)	
	NUR4103B	Applied Research Methods (Sem 1)	
	NUR4104B	Honours Project in Nursing (Sem 1 & 2)	
	Unrestricted Elective (Any Sem)		

***Students have to take 2 Unrestricted Elective Modules to make up 120MCs for the BSc (Nursing) programme requirement.**

[#]NUR3116B Transition to Professional Practice Experience comprises 12 weeks of clinical

posting to meet SNB minimum requirements of clinical placement.

Assessment

Both formative and summative assessments are used to ensure the desired learning outcomes are achieved and will drive students' learning in a positive way.

GRADING OF ASSESSMENT AND CUMULATIVE AVERAGE POINTS (CAP)			
Grade	Grade Point	Grade	Grade Point
A+	5.00	C+	2.50
A	5.00	C	2.00
A-	4.50	D+	1.50
B+	4.00	D	1.00
B	3.50	F (Fail)	0.00
B-	3.00		

3.2.3 2-year Bachelor of Science (Nursing) Professional Conversion Programme (PCP) for Registered Nurses

3.2.3.1 [Admission Requirements](#)

3.2.3.2 [Curriculum Structure and Requirements](#)

3.2.3.1 Admission Requirements

Admissions

The Professional Conversion Programme for Registered Nurses (Degree) @ NUS is co-funded by the Ministry of Health (MOH), Workforce Singapore (WSG) and sponsoring healthcare institutions. To be eligible for the course, applicants must meet the following requirements:

1. Singaporeans and Singapore Permanent Residents;
2. Bachelor degree from a recognized university in a discipline other than nursing;
3. Any two H2 or 'A' passes in Biology, Chemistry, Computing, Physics and Mathematics; or a science-related Diploma from a polytechnic in Singapore; and
4. Graduated or completed National Service for at least 2 years.

For more information on the admission criteria and application of the PCP-RN (Deg) @ NUS, please visit WSG website:

<http://www.wsg.gov.sg/programmes-and-initiatives/professional-conversion-programmes/registered-nurses-degree.html>

3.2.3.2 Curriculum Structure and Requirements

Curriculum

The **PCP-RN (Deg) @ NUS** is a 2-year full-time course designed to meet the Standards of Nursing Education and accreditation requirements of the Singapore Nursing Board (SNB). Upon successful completion of the course, students are eligible to apply for registration as a Registered Nurse with the SNB.

An intensive programme whereby students will study subjects such as anatomy, physiology, pathophysiology, pharmacology, psychology, mental health, leadership management, ethics and law, and research. Students will spend 1,320 hours on clinical practicum in community and hospital/healthcare settings during the course of study.

2-year Bachelor of Science (Nursing) Curriculum Structure

YEAR	SEMESTER	MODULES GRANTED APC
1	1	NUR1113A Healthy Ageing and Well-being
		NUR1114A Fundamentals of Care
		NUR1123 Anatomy, Physiology and Physical Assessment I
		NUR1125 Pathophysiology, Pharmacology and Nursing Practice I
		NUR2120 Professional Nursing Practice, Ethics and Law
	December Vacation	NUR1202C Clinical Experience I
	2	MIC2000 Infection and Immunology
		SC2211 Medical Sociology
		NUR1124 Anatomy, Physiology and Physical Assessment II
		NUR1126 Pathophysiology, Pharmacology and Nursing Practice II
		NUR1127 Psychology for Nurses
		NUR2124 Healthy Community Living
Special Term (May/June)	NUR2203C Clinical Experience II	

YEAR	SEMESTER	MODULES GRANTED APC
2	1	NUR2113 Mental Health Nursing
		NUR2123 Pathophysiology, Pharmacology and Nursing Practice III
		NUR2204C Women and Children Health
		NUR3114 Leadership and Management
		NUR3117A Public and Community Health
		NUR3119 Palliative and End-of-Life Care
		NUR3202C Research and Evidence-based Healthcare
	December Vacation	NUR3204C Clinical Experience III
	2	NUR3205C Clinical Experience IV
		NUR3206C Transition to Practice
Two UEM given as Advanced Placement Credit to make up 120MC		

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 financial assistance and the application procedure, please

visit: <http://nusmedicine.nus.edu.sg/admissions/medicine/undergraduate#financial-assistance>

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/education/scholarships-bursaries-and-financial-aid.html>

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 has an illustrious graduate programme that has contributed significantly to making the University a world-class tertiary institution. The programme provides the biomedical industry with highly competent biomedical scientists and clinician-scientists who will spearhead and drive medical biotechnology initiatives.

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 undertake 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 credits 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 ten years before the date of admission.
- Applications for credit transfer or exemptions must be submitted within the first month 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 two core modules + elective modules (at Level-5000)

PhD : A total of 24 modular credits comprising 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. Satisfy all curricular requirements of the programme of study
- c. Satisfy 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 2.50 for two consecutive semesters or 3.00 for three consecutive semesters

PhD : CAP should not fall below 3.00 for two consecutive semesters or 3.50 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 3.00 (but ≥ 2.50), he/she will be issued an academic warning. If, in the following semester, the candidate's CAP again falls below 3.00, he/she will be placed on probation. If the candidate's CAP remains below 3.00 for the third consecutive semester, the candidate will be issued a letter of dismissal by the Registrar and denied re-admission.

MSc candidates with CAP below 2.50 for two consecutive semesters will be placed on probation for the first semester, followed by dismissal in the second semester.

A PhD candidate's whose CAP falls below 3.50 (but ≥ 3.00), will be issued an academic warning. If the candidate's CAP again falls below 3.50 in the following semester, he/she will be placed on probation. If the student's CAP remains below 3.50 for a third consecutive semester, the student will be issued a letter of dismissal by the Registrar and denied re-admission.

PhD candidates whose CAP falls below 3.00 for two consecutive semesters 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 3.00 (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 3.50 (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 or its equivalent.

4.2 Cancer Science Institute of Singapore (CSI) PhD Programme

The Cancer Science Institute of Singapore offers 2 PhD Graduate Programmes in Cancer Biology and RNA Biology.

The CSI Singapore PhD Graduate Programme in Cancer Biology seeks to attract top scientific and medical talents interested in a career in cancer research and RNA Biology. Graduate students will have access to world-class facilities dedicated to cancer research and can look forward to working with a dynamic team of globally 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 the field of cancer and/or RNA Biology.

4.2.1 [Degrees Offered](#)

4.2.2 [Degree 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, leading to submission of a thesis to a Board of Examiners.

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

4.2.2 Degree 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 are 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 applications. 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, leading to the submission of a thesis to a Board of Examiners. In addition, candidates are required to fulfil a coursework component comprising the following:

PhD : A total of 24 modular credits comprising 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 3.00 for two consecutive semesters or 3.60 for three consecutive semesters

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

A PhD student with a CAP falling below 3.60 (but ≥ 3.00) will be issued an academic warning. If the candidate's CAP again falls below 3.60 in the following semester, he/she will be placed on probation. If the student's CAP remains below 3.60 for a third consecutive semester, the candidate will be issued a letter of dismissal by the Registrar and denied re-admission.

PhD candidates whose CAP falls below 3.00 for two consecutive semesters 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 3.60 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

I. CSI Singapore PhD Graduate Scholarship

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) PhD students will be awarded a monthly stipend of \$3200. International PhD students will be awarded a monthly stipend of \$3100. Scholarship includes a conference allowance of up to S\$10,000, laptop allowance along with book and software allowance.

II. RNA Biology Scholarship

Full-time Singaporean PhD students will be awarded a monthly stipend of \$2700 and employer's CPF contribution of 17%. Full-time Permanent Resident (PR) and International PhD students will be awarded a monthly stipend of \$2200 and \$2000 respectively. RNA Biology scholars shall receive an additional stipend of up to \$500 per month from the date of passing their PhD Qualifying Examination (QE) for a duration of maximum of 24 months or only up to the 48th month of their candidature, whichever date is the earlier. The additional stipend is renewable each semester, subject to good performance. Scholarship also includes a Travel Grant for Conference, capped at \$3000 per candidature.

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 comprises 8 modules (32 MCs) for coursework (80%) and a research component (20%) of 8 MCs. For the research component, students work under the supervision of a group of mentors (established clinical investigators/researchers).

4.4 Research Programmes in Nursing

Opportunities abound for nursing research to make a substantial impact on population health and improve approaches to patient care. The 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 has led framed the research training agenda at the Alice Lee Centre for Nursing Studies (NUS Nursing). 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 and serve as a pathway to 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

- Has a minimum of one year work experience at the point of entry into the course
- Bachelor's degree in Nursing or healthcare-related subjects with at least a Second Class Honours or its equivalent; or
- Coursework Master's degree in Nursing or healthcare-related subjects with a CAP of 3.50 or above; or
- Bachelor's degree in Nursing or healthcare-related subjects and evidence of outcomes from a research project equivalent to 25% of one year's full-time study

PhD Programme

- Has a minimum of one year work experience at the point of entry into the course
- Bachelor's degree in Nursing or healthcare-related subjects with at least a Second Upper Class Honours or its equivalent; or
- Coursework Master's degree in Nursing or healthcare-related subjects with a CAP of 3.50 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 are 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

- Candidates may apply for credit transfer/module exemption, subject to the approval of NUS Nursing.
- There is no limit to the transfer of credits 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 completed at level 5000 and above which are relevant to the degree programme to which the candidate seeks admission, with substantially the same learning objectives, content, and level of sophistication as the corresponding NUS module may 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 and exemption should be submitted within the first month of candidature.

4.4.3 Degree Requirements and Curriculum Structure

Degree Requirements and Curriculum Structure

The MSc (Nursing) comprises 20 modular credits and a 40,000 word thesis.

The PhD comprises 28 modular credits and an 80,000 word thesis.

Students will undertake research under the supervision of staff members from NUS Nursing for their period of candidature, at the end of which a thesis will be submitted 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 NUS Nursing 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 NUS Nursing.

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 NUS Nursing 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 2.50 for two consecutive semesters or 3.00 for three consecutive semesters

PhD : CAP should not fall below 3.00 for two consecutive semesters or 3.50 for three consecutive semesters

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

MSc (Nursing) candidate whose CAP falls below 3.00 (but ≥ 2.50), will be issued an academic warning. If the candidate's CAP again falls below 3.00 in the following semester, he/she will be placed on probation. If the candidate's CAP remains below 3.00 for the third consecutive semester, the candidate will be issued a letter of dismissal by the Registrar and denied re-admission.

MSc (Nursing) candidates whose CAP falls below 2.50 for two consecutive semesters will be placed on probation for the first semester, followed by dismissal in the second semester.

A PhD candidate whose CAP falls below 3.50 (but ≥ 3.00), will be issued an academic warning. If the candidate's CAP again falls below 3.50 in the following semester, he/she will be placed on probation. If the student's CAP remains below 3.50 for the third consecutive semester, the student will be issued a

letter of dismissal by the Registrar and denied re-admission.

PhD candidates whose CAP falls below 3.00 for two consecutive semesters will be placed on probation for the first semester, followed by dismissal in the second semester.

A student may also be issued a warning, 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 NUS Nursing 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 modular credits)
- A CAP of at least 3.00 (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 modular credits)
- A CAP of at least 3.50 (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\$2,500 - S\$3,200 per month for MSc (Nursing) 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 Upper Honours Class 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:

1. Anaesthesiology
2. Diagnostic Radiology
3. Emergency Medicine
4. Family Medicine
5. Internal Medicine
6. Obstetrics & Gynaecology
7. Ophthalmology
8. Orthopaedic Surgery
9. Otorhinolaryngology
10. Paediatric Medicine
11. Psychiatry
12. Surgery

The DGMS also offers short one-to-two-week examination preparatory courses to specifically help candidates prepare for their examinations. These are usually held a few 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).

For more information, please visit: <http://medicine.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 designed for graduates from any discipline who seek careers working with children and/or adults as speech and language pathologists. The programme covers 18 compulsory modules, four of which involve clinical placements in local hospitals and social service centres. Problem-based learning, with local case studies, provides the foundation for the academic modules, and students are expected to conduct a research project relevant to evidence-based practice in their final year.

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

Master of Science (Audiology)

This graduate-entry programme addresses the public demand for locally trained Audiologists. It is the only coursework-based study of its kind in Singapore and is 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 MN curriculum is subjected to changes, for most updated information please refer to MN website at <http://medicine.nus.edu.sg/nursing/education/masters-of-nursing-admission.html>)

The Master of Nursing (MN) curriculum offered by NUS reflects the current healthcare needs and the importance of advanced nursing practice. Students receive advanced clinical knowledge, skills and acquired professional attitude from a range of disciplines in advanced nursing practice, clinical medicine, social sciences and public health. Students acquire and apply learnt knowledge and skills not only on campus but also in clinical practice settings. Upon successful completion of the 18-month MN programme, graduates are eligible to apply for APN provisional license with the Singapore Nursing Board (SNB) to continue a 12-month supervised practice and be certified as an Advanced Practice Nurse (APN).

The Curriculum

Aims of the Programme

The MN programme aims to prepare experienced registered nurses:

- to be a competent and safe APNs who utilize evidence-based practice and expert nursing knowledge, to assess health and healthcare needs, to make complex clinical decision, to provide comprehensive care, and to educate clients and support individuals to manage their health holistically;
- to function as clinical role models, clinical leaders and clinical consultants to lead clinical services and improve patients' care quality;
- to pursue life-long learning through professional development programme and to hold responsibility for their clinical competencies by constantly updating their clinical knowledge and skills.

Admission Requirements

Applicants for MN must fulfill both MN academic requirements and SNB admission requirement to the MN programme (**Table 1**). Applicants may need to attend admission interview based on the admission process.

Table 1: Master of Nursing (MN) Admission Requirement

Academic Requirements	SNB Admission Requirements to the MN Programme
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<p>1. possess a Bachelor's degree in nursing from a SNB accredited programme[#]; and</p> <p>2. have a minimum CAP of 3.2; and</p> <p>3. have a minimum TOEFL score of 580/237/85 for the paper-based, computer-based and internet-based respectively or IELTS score of 6.5 or equivalent - for applicants whose native tongue or medium of undergraduate education is not in English</p>	<p>1. possess a full registration with Singapore Nursing Board; and</p> <p>2. have <u>at least 5 years</u> of continuous clinical practice as a Registered Nurse. Advanced Diploma/Post-graduate Diploma in a Clinical Specialty would be an advantage</p>
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#list of SNB Accredited Programmes can be found at

<http://www.healthprofessionals.gov.sg/snb/accreditation-of-nursing-education-programmes/accredited-nursing-programmes/post-registration-programmes>

Fee

Tuition fees (covering 3 semesters): S\$64,243 (inclusive of GST)

Application

Application opens from 1 February to 31 March every year. Please visit our website at <http://medicine.nus.edu.sg/nursing/education/masters-of-nursing-admission.html> for more information.

Programme Structure

The MN programme is an 18-month programme and will be delivered across 3 semesters. It consists of 70 Modular Credits (MCs), out of which 40 MCs are for theoretical modules and 30 MCs are for clinical practicum.

Detailed Programme Structure of Master of Nursing 2019 Curriculum

	Adult Health	Paediatrics
Core Clinical Modules (40 MC)	NUR5801G Integrated Clinical Decision Making and Management I (8MC)	NUR5609 Integrated Clinical Decision Making and Management I (Paediatrics) (8MC)
	NUR5802G Integrated Clinical Decision Making and Management II (8MC)	NUR5610 Integrated Clinical Decision Making and Management II (Paediatrics) (8MC)
	NUR5808 Integrated Care for Older Adults Across Care Continuum (8MC)	NUR5613 Integrated Care for Paediatric Patients Across Care Continuum (8MC)
	MDG5238 Clinical Pharmacology and Pharmacotherapeutics I (4MC)	
	MDG5239 Clinical Pharmacology and Pharmacotherapeutics II (4MC)	
	NUR5807 Professional Development of Ethical Healthcare (4MC)	
	NUR5806G Evidence-based Practice (4MC)	
Clinical (30MC)	NUR5811 Clinical Practicum I (30MC)	

Graduate Diploma in Community Health Nursing (CHN)

The Graduate Diploma programme has been designed to provide students a strong foundation in community health nursing, enabling care delivered to meet the healthcare needs of various population groups in a variety of community settings in Singapore. The proposed programme, the Graduate Certificate leading to Graduate Diploma in Community Health Nursing responds to the growing societal demand for well-qualified Registered Nurses to manage the healthcare needs of patients in the community.

This course is offered on a part-time mode and adopts a sequential stackable modular approach. Stackable programmes typically consist of Certificates that will stack up towards a Graduate Diploma. The stackable Graduate Certificates shall not be more than 5 years at the point of application for matriculation to the Graduate Diploma in Community Health Nursing.

Aims of the Programme

The course aims to promote and deepen registered nurses' knowledge, skills and understanding for care delivery in a community setting. Registered nurses working in the community are required to perform health assessment and make diagnoses, make decisions and offer treatment with a high level of autonomy and independence. This course aims to consolidate the theoretical base to enable registered nurses to develop higher levels of decision-making and develop skills that will support the continuity of care

between the hospital and community.

Admission Requirements

Applicants must:

- be a registered nurse with valid practicing certificate from Singapore Nursing Board (SNB)
- have at least one (1) year work experience in a community setting
- possesses a Bachelor's Degree in Nursing from an accredited programme
- obtained a CAP ≥ 3.00 for each graduate certificate (NUR5801G & NUR5802G)

Fee

Tuition fees (covering 4 semesters): S\$34,560 (excludes GST and SSG funding)

*SkillsFuture Singapore (SSG) subsidy would be applicable to 2 modules (NUR5801G & NUR5802G) for SC/PR.

Application

Application opens in May and Oct every year. Please visit our website at

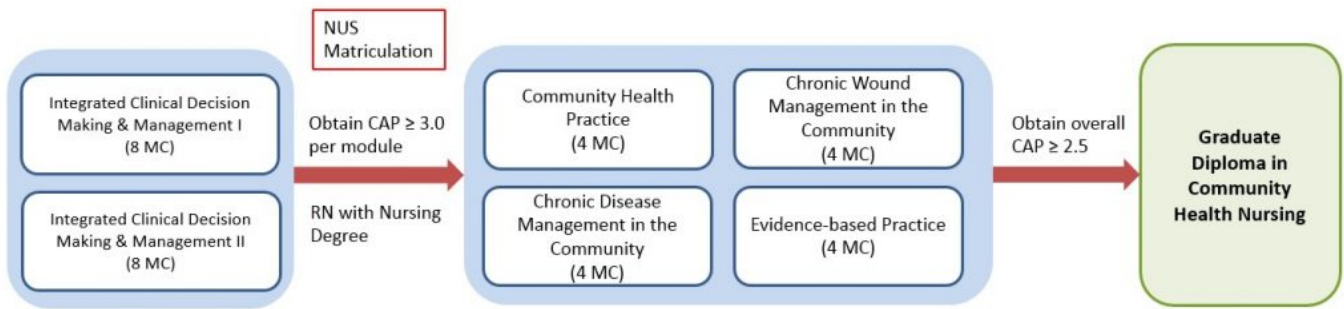
<http://medicine.nus.edu.sg/nursing/education/community-health-nursing-admission.html> for more information.

Programme Structure

The 24-month Graduate Diploma programme comprises 32 modular credits (MCs). It is offered under a modular, stackable course pathway. All registered nurses can enrol for the graduate certificates. On successful completion of the two (2) stackable Graduate Certificates, registered nurses with a nursing degree and have obtained a CAP 3.00 for each module can apply for admission to the Graduate Diploma in Community Nursing. Upon successful completion of all six modules, the registered nurses will be awarded the Graduate Diploma in Community Health Nursing if they achieve an overall CAP of 2.50.

Registered nurses who are not degree holders but have obtained a CAP ≥ 3.00 for each Graduate Certificate can still submit an application for admission to the Graduate Diploma programme. However, such applications will be considered on a case-by-case basis by a panel comprising representatives from NUS Medicine and NUS Nursing.

Stackable Course Pathway for Full-Programme of Graduate Diploma in Community Health Nursing



Curriculum Structure for Graduate Diploma in Community Health Nursing

Module Name	Module Code
Integrated Clinical Decision Making and Management I	NUR5801G (8MC)
Integrated Clinical Decision Making and Management II	NUR5802G (8MC)
Community Health Practice	NUR5803G (4MC)
Chronic Disease Management in the Community	NUR5804G (4MC)
Chronic Wound Management in the Community	NUR5805G (4MC)
Evidence-based Practice	NUR5806G (4MC)

How to Apply:

For more information, please visit the programme website:

<http://medicine.nus.edu.sg/nursing/education/community-health-nursing-admission.html>