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Faculty's Commitment

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The Yong Loo Lin School of Medicine was first established as the Straits and Federated Malay States Government Medical School in 1905. In 1912, it was renamed King Edward VII Medical School, in recognition of a gift of \$120,000 from the King Edward VII Memorial Fund. Substantial academic expansion took place and the name was further changed to King Edward VII College of Medicine in 1921 to reflect its status as an academic institution of university status. In 1949, the college amalgamated with Raffles College to form the University of Malaya. This later became the University of Singapore and in 1981 became the National University of Singapore.

In 2005, when NUS celebrated its centennial anniversary, the Yong Loo Lin Trust made a transformational gift of \$100 million dollars to the Medical School, which was similarly matched by the Government. The gift will provide funding to recruit and retain top faculty as well as to develop new infrastructure and state-of-the-art facilities to position the Yong Loo Lin School of Medicine as the key driver in Singapore's Biomedical Science initiative.





To reinforce its position as a Health Science academic campus, Singapore's first Bachelor of Science (Nursing) Programme was launched by the School in August 2006 through the establishment of the Alice Lee Centre for Nursing Studies. The founding of the Alice Lee Centre for Nursing Studies was made possible through a \$10 million donation from the Lee Foundation. The School established two additional centres to complement its active research programmes, the Centre for Health Services Research in collaboration with RAND-Health; and the Centre for Biomedical Ethics through a donation of \$2.5 million dollars from the Chen Su Lan Trust. These two centres further cement the School's status as a Research Centre of Excellence.

These initiatives will help ensure that the School's mission will continue to succeed for generations to come: to provide excellence in medical education for successive generations of healthcare practitioners, generate world-class research aimed at changing the way medicine is practiced, and to provide healthcare of the highest quality to serve the people of Singapore and the region.

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(For up-to-date information, please visit the Faculty's website at <http://medicine.nus.edu.sg>.)

Deanery

Title & Name	Designation/Responsibility	Telephone (6772-XXXX)	Fax	Email (XXXX@nus.edu.sg)
Assoc Prof YEOH Khay Guan	Dean	3732		meddean
Assoc Prof HOOI Shing Chuan	Vice-Dean (Education)	3755		phshsc
Prof SAW Seang Mei	Vice-Dean (Research)	3722		ephssm
Assoc Prof LIM Hsueh Yee Lynne	Vice-Dean (Academic Affairs)	3810		enthyl
Mr LIM Swee Chong Alec	Vice-Dean (Administration)	3788		medlsca
Mr TEO Kheng Lin Stewart	Vice-Dean (Finance)	3811		medtkls

Departments and Divisions

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

Title & Name	Designation/Responsibility	Telephone (6772-XXXX)	Fax	Email (XXXX@nus.edu.sg)
Assoc Prof LIU Hern Choon Eugene	Head, Department of Anaesthesia	6772 4200		anahead
Prof BAY Boon Huat	Head, Department of Anatomy	6516 6139		anthead
Prof Jean-Paul THIERY	Head, Department of Biochemistry	6516 3242		bchhead
Assoc Prof QUEK Swee Tian	Head, Department of Diagnostic Radiology	6772 4211		dnrhead
Prof HO Khek Yu	Head, Department of Medicine	6772 4362		mdchead
Prof Nicholas Robert John GASCOIGNE	Head, Department of Microbiology	6516 3275		michead
Assoc Prof Karis CHENG Kin Fong	Acting Head, Alice Lee Centre for Nursing Studies	6516 5088		nurhead
Prof YONG Eu Leong	Head, Department of Obstetrics and	6772 4285		obghead

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Prof WONG Tien Yin	Head, Department of Ophthalmology	6772 5318		ophhead
Prof WONG Hee Kit	Head, Department of Orthopaedic Surgery	6772 4342		doshead
Assoc Prof LOH Kwok Seng Thomas	Head, Department of Otolaryngology	6772 5372		enthead
Assoc Prof GOH Yam Thiam Daniel	Head, Department of Paediatrics	6772 4414		paehead
Prof TEH Ming	Head, Department of Pathology	6601 1249		pathead
Prof WONG Tsun Hon Peter	Head, Department of Pharmacology	6516 3266		phchead
Assoc Prof SOONG Tuck Wah	Head, Department of Physiology	6516 3222		phshead
Assoc Prof WONG Chee Meng John	Head, Department of Psychological Medicine	6772 4511		pcmhead
Prof LEE Chuen Neng	Head, Department of Surgery	6772 4220		surhead

Medical Education Unit

The Medical Education Unit (MEU) is a core unit in the National University Health System, with the mission to promote Professionalism and Excellence in Medical Education.

The MEU aims to provide two core functions namely:

Academic Function

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

Service Function

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

Head: Assoc Prof Chong Yap Seng
Deputy Head: Dr Dujeepa D Samarasekera
Senior Associate Director: Ms Lee Su Mei
Tel: 6516 3732
Fax: 6872 1454
Email: medlsm@nus.edu.sg

Centre for Healthcare Simulation (CHS)

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

CHS comprises a simulated Operating Theatre (OT), an Intensive Care Unit (ICU), an Emergency Room (ER), a

Paediatrics Acute Ward, a Labour Ward, eight clinical wards, two procedural rooms and 60 consultation rooms. With a suite of high fidelity simulators, part task trainers and a pool of trained Standardised Patients, faculty members are able to plan and design innovative 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

Manager: Mr Nicholas Wong

Tel: 6601 1976

E-mail: nicholas_wong@nuhs.edu.sg

Division of Graduate Medical Studies

Postgraduate training and education is a continuation of medical education from the undergraduate years. The Division of Graduate Medical Studies (DGMS) is responsible for NUS postgraduate medical training and education in Singapore. It offers degree examinations leading to specialist qualifications. There are 12 Master of Medicine (M.Med) examinations of which 6 are conjoint examinations with (Royal) Colleges in the United Kingdom. Besides M.Med exams, it also offers 5 Graduate Diploma programmes and is responsible for 2 Allied Health professional degrees in Master of Science (Speech and Language Pathology) and Master of Science (Audiology).

Since the inception of the graduate programmes, over 4,000 doctors and other health care professionals in Singapore and in the region have graduated from the programmes.

Head: Assoc Prof Chen Fun Gee

Senior Manager: Ms Goh Mei Ling

Tel: 6516 1939 Fax: 6773 1462

E-mail: mei_ling_goh@nuhs.edu.sg

Phase Coordinators

Title & Name	Designation/Responsibility	Telephone (6772-XXXX)	Fax	Email (XXXX@nus.edu.sg)
Assoc Prof K. RAJENDRAN	Year 1 (Phase I)	6516 3660	6778 7643	antrajen
Assoc Prof TAN Kong Bing	Year 2 (Phase II)	6772 2057	6778 0671	pattankb
Asst Prof KHOO Chin Meng	Year 3 (Phase III)	6772 6174	6779 4112	mdckcm
Assoc Prof Malcolm MAHADEVAN	Year 4 (Phase IV)	6772 5002	6775 8551	malcolm_mahadevan@nuhs.edu.sg
Prof LIM Tow Keang	Year 5 (Phase V)	6772 4367	6778 5743	mdclimtk

Administrative Coordinators

Undergraduate Medical Studies

Title & Name	Designation/Responsibility	Telephone (6772-XXXX)	Fax	Email (XXXX@nus.edu.sg)
Mr LEE Chin Kai Jonas	Assistant Director(Student Admissions)	3749	6778 5743	medleec
Ms KAVITHA D/O Kaliaperumal	Assistant Manager (Student Admissions)	3779	6778 5743	medzm

Ms Christina MOHAN	Senior Executive (Student Admissions)	6978	6778 5743	medmohan
Ms LOW Seow Ching Gillian	Assistant Director (Curriculum and Assessment)	3746	6778 5743	medlscg
Ms TAN San San Karen	Manager (Curriculum and Assessment)	7558	6778 5743	medtssk
Ms FONG Chong Hui Ann	Senior Assistant Manager (Curriculum and Assessment)	3751	6778 5743	medfcha
Ms WANG Shiyan Esther	Assistant Manager (Curriculum and Assessment)	6975	6778 5743	medwse
Ms TAN Beow Teng Rebecca	Assistant Manager (Curriculum and Assessment)	6601 3472	6778 5743	medtbtr
Ms AW Bee Hoon	Assistant Manager (Curriculum and Assessment)	3765	6778 5743	medawbh
Ms LIU Ching Man	Assistant Manager (Curriculum)	7554	6778 5743	medlcm
Ms WONG Yee Hui, Joanne	Senior Executive (Curriculum and Assessment)	3757	6778 5743	medwyhj
Ms Ho Hui Yi, Vania	Senior Executive (Curriculum and Assessment)	6974	6778 5743	medhhyy
Ms LEE Li Li	Senior Assistant Manager (Electives)	3756	6778 5743	medlell
Ms SHARIFAH Nur Binte Mohamed Shariff	Senior Executive (Electives)	3762	6778 5743	medsnbms
Mr VICKNESH S/O Thangavelu	Assistant Director (Student Affairs)	6601 3471	6778 5743	medvt
Mr TAN Kong Hoe THomas	Senior Manager (Student Affairs)	6601 3478	6778 5743	medttkh
Ms YAP Pek Be	Assistant Manager (Student Affairs)	6601 3473	6778 5743	medypb
Ms KYIN Nwe Moong Don	Senior Executive (Student Affairs)	6601 3477	6778 5743	medknmd
Ms CHIA Ghee Chuan Ada	Senior Manager (Education Technology)	3748	6772 3748	medcgc
Ms Agnes LYE	Manager (Education Technology)	3759	6772 7557	medlsia
Ms HENG Li Wah Adeline	Manager (Education Administration)	3781	6778 5743	medahlw
Koh Hwei Keong	Senior Executive Feedback System	3776	6778 5743	medkhk
Mr Nicholas WONG	Manager (Centre for Healthcare Simulation)	6601 1976		nicholas_wong@nuhs.edu.sg
Ms HAFIZAH IBRAHIM	Assistant Manager (Centre for Healthcare Simulation)	6601 2989		hafizazh_ibrahim@nuhs.edu.sg
Ms ANG Shu Shing	Senior Executive (Centre for Healthcare Simulation)	6601 1520		shu_shing_ang@nuhs.edu.sg

Undergraduate Nursing Studies

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Title & Name	Designation/Responsibility	Telephone (6772-XXXX)	Fax	Email (XXXX@nus.edu.sg)
Mrs LEE Elaine	Deputy Director	6516 3320	6776 7135	nurleee
Ms HOI Lai Meng	Manager (Undergraduate Programmes)	6516 5087	6776 7135	nurhlm

Graduate Studies

Title & Name	Designation/Responsibility	Telephone (6772-XXXX)	Fax	Email (XXXX@nus.edu.sg)
Ms TAN Stacy	Senior Manager (M.Sc./Ph.D. Research Programme)	6772 3704	6778 5743	medtanbh
Mr Michael LIM Seow Ping	Senior Executive (Master of Clinical Investigation Programme)	6772 7545	6778 5743	medlspm
Ms Goh Mei Ling	Senior Manager (Division of Graduate Medical Studies)	6516 1939	6773 1462	gsmgohml
Ms MANIMEGALAI Palanisamy	Senior Executive (Master of Science [Speech and Language Pathology])	6516 8026	6773 1462	gsmmp
Mr CHOO Boon Beng Edmund	Assistant Manager (Master of Science [Audiology])	6516 3353	6773 1462	entcbbe
Dr CHOW Yeow Leng	Programme Coordinator (Master of Nursing Programme)	6516 7449	6776 7135	nurcyl
Ms MARIATI Bte Mohd Noor	Senior Assistant Manager (Graduate Research Programmes in Nursing)	6516 3115	6776 7135	nurmmn

General Enquiries

Title & Name	Designation/Responsibility	Telephone (6772-XXXX)	Fax	Email (XXXX@nus.edu.sg)
Ms JURAIDAH Binte Selamat	Undergraduate Medical Studies	6772 3766	6778 5743	medjs
Ms HOI Lai Meng	Undergraduate Nursing Studies	6516 5087	6776 7135	nurhlm
Ms KUM Yi Zi	M.Sc./Ph.D. Research Programme	6772 3727	6778 5743	medbox1
Ms KAN Jia Hui	Master of Nursing (MN) Programme	6516 8687	6776 7135	nurkjh
Ms MARIATI Bte Mohd Noor	Graduate Research Programmes in Nursing	6516 3115	6776 7135	nurbox3
Ms RIDASERI Binte Suparman	M.Med and Graduate Diploma Programmes	6516 3300	6773 1462	gsmbbox1



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3 Undergraduate Education

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 (M.B.,B.S.)
- Bachelor of Science (Nursing) / Bachelor of Science (Nursing)(Honours)

Overview of Bachelor of Medicine and Bachelor of Surgery (M.B.,B.S.)

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

Table with 3 columns: Phase (Year), Structure and Function, and Longitudinal Tracks. It details the curriculum from Phase I (Year 1) to Phase V (Year 5), including core clinical practice and student internship programmes.

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

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

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

Overview of Bachelor of Science (Nursing)

The B.Sc. (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 (M.B.,B.S.)

Admission to the undergraduate medical programme

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

GCE 'A' Levels

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

International Baccalaureate

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

Admission will be computed based on a University Admissions Score and a Faculty Score. The University Admissions Score is based on the candidate's pre-university academic performance whereas the Faculty Score will be computed by means of the Focused Skills Assessment (FSA), Situational Judgement Test (SJT), and portfolio review. Candidates are shortlisted based on the University Admissions Score. All shortlisted candidates are required to submit a portfolio, attend the FSA and SJT. Candidates who do not meet shortlisting criteria but have exceptional talents or achievements may apply to be shortlisted by means of discretionary admissions process, known as the Exceptional Individual Scheme (EIS).

Health Requirements - Virus Screening and Immunisation

In addition to the conditions indicated in the offer letter, admission to Medicine is also subject to the following health requirements.

(1) Hepatitis B Virus (HBV)

In accordance with the Ministry of Health requirements, all prospective medical students must be Hepatitis B surface antigen (HBsAg) negative.

All candidates must undergo screening for Hepatitis B Virus ("HBV"). This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine, regardless of previous screening and/or immunisation. Those who are HBsAg positive (regardless of HBeAg status) will not be admitted to the Medicine undergraduate programme.

Prospective medical students who are tested negative for HBsAg but who are not immune (anti-Hepatitis B surface antibody (anti-HBsAb) negative or <10 mIU/mL) are required to obtain immunisation, within one month from the date of screening so as to protect themselves and to prevent HBV transmission in the healthcare setting. A post vaccination Hepatitis B antibody blood test will then be done one month after immunization is complete.

Candidates who fail or decline to undergo HBV screening, furnish evidence of HBV immunisation, and/or refuse to be immunised if required, will have their admission offer rescinded. The University reserves the right to require any or all of its new medical students to undergo further tests for any or all markers of the Hepatitis B virus (HBV) and exclude from admission any candidate who test positive for HBV. Students interested in Medicine are encouraged to ascertain their HBV status early.

(2) Varicella Zoster Virus (Chickenpox)

All candidates must undergo screening for immunity to the Varicella Zoster Virus (VZV). This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine, regardless of previous screening or immunisation. Candidates who are tested negative for VZV immunity will be required to be immunised within one month from the date of screening. Certification of past infection or previous immunisation for chickenpox is not acceptable.

Students may begin classes without immunisation for VZV if:

1. The student concerned has a letter from a registered medical practitioner stating that there is a reason why he/she cannot receive the vaccine; or
2. The student concerned (or his/her parent or legal guardian, if the student is a minor) presents a statement in writing that such vaccination is against his/her sincere religious beliefs; or
3. The student concerned has documented evidence of two administrations of the varicella vaccine (non-responders).

(3) Rubella Virus

All candidates must undergo screening for immunity to the Rubella Virus. This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine regardless of previous screening or immunisation. Candidates who are tested negative for Rubella immunity will be required to be immunised within one month from the date of screening.

All candidates are encouraged to have their screenings and immunisations done at the University Health Centre (UHC) Level 1, 20 Lower Kent Ridge Road, Singapore 119080. The costs for screening and immunisation, as well as the deadlines by which the screening and immunisation must be completed, are set out in the table below.

Virus	Screening		Immunisation		Post Vaccination Screening
	Cost	Deadline	Cost	Deadline	Deadline
Hepatitis B	\$20.00	To complete by 12 July 2013	<ul style="list-style-type: none">• \$20.00 per injection• 3 injections over 6 months	To complete by 31 January 2014	<ul style="list-style-type: none">• 1 month after immunisation• Post-vaccination antibody blood test at \$10.00
Varicella Zoster (Chickenpox)	\$42.00		<ul style="list-style-type: none">• \$60.00 per injection• 2 injections over 6 to 10 weeks	To complete by 30 September 2013	Not Applicable
Rubella	\$25.00		<ul style="list-style-type: none">• \$30.00 per injection• 2 injections over 4 to 6 weeks		

*Fees are subject to change. Please refer to <http://www.nus.edu.sg/uhc/> for updates.

If you choose to be screened by a registered medical practitioner of your choice, please note the following:

1. You must submit to the UHC satisfactory proof of such screening and immunisation (where necessary) by 12 July 2013
2. You will not be able to matriculate if you do not complete your health screenings (Hepatitis B, Varicella Zoster and Rubella) by 12 July 2013.
3. For subsequent immunisation(s), you must submit to the Dean's Office at the Yong Loo Lin School of Medicine, satisfactory proof of such immunisation(s) by the stipulated deadline(s).

The above Health Requirements and costs are subject to change. All updates will be available on our Corporate Website at <http://www.med.nus.edu.sg/corporate/>. If you need clarification on any of these issues, please contact our staff at UHC at Tel: 6776 1631.

Bonds for Medical Students

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

	Singaporeans	Singapore PR and International students
No. of Years of Bond	5 (excluding housemanship / first year residency training)	6 (excluding housemanship / first year residency training)

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

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

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

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

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

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

*Note:

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

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

If you need further information, please visit the Ministry of Health website at

<http://www.moh.gov.sg/content>

[/moh_web/healthprofessionalsportal/allhealthcareprofessionals/career_practice/medical_dental_undergraduate_agreement.html](http://www.moh.gov.sg/content/moh_web/healthprofessionalsportal/allhealthcareprofessionals/career_practice/medical_dental_undergraduate_agreement.html)

or contact Mrs Chew Meow Kheng of the Ministry of Health at Tel: 6325 9104.

Educational Aims

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

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

Education Outcomes

Our graduates will:

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

Medical Knowledge

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

Patient Care

- Achieve a sufficient level of medical knowledge and clinical skill to be a highly competent medical practitioner who will be an effective house officer on graduation and have the capacity for further training to be a proficient general practitioner or specialist.
- Demonstrate the ability for effective and efficient data collection, synthesis and critical analysis in the prevention, diagnosis and management of disease.
- Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Interpersonal and Communication Skills

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

Professionalism

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

Practice-based Learning and Improvement

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

Systems-based Practice

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

Longitudinal Tracks

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

Health Ethics, Law and Professionalism

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

Information Literacy

This longitudinal track aims to enable all students to gather and critically evaluate research information, effectively incorporate the selected information into their knowledge base and apply the knowledge in patient care, and also to lay the foundation for future training in carrying out high quality research.

Medicine and Society

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

Patient-based Programme and Clinical Skills Foundation Programme

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

Course of Study

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

Phase I (Year 1)	Introduction to Health & Disease	
	Musculoskeletal System	
	Blood, Respiratory & Cardiovascular Systems	
	Renal, Fluid & Electrolyte Systems	
	Gastrointestinal, Nutrition & Metabolism Systems	
	Endocrine & Reproduction Systems	
	Neuroscience with Head & Neck	
	Genetics and Genomics	
	Cancer Biology	

Phase II (Year 2)		
		Immunology
		Clinical Microbiology & Infection
		Principles of Pharmacology and Systemic Pharmacology
		Principles of Pathology and Systemic Pathology
		Neuroscience & Musculoskeletal
		Foundations in Geriatric Medicine
Phase III (Year 3)		Clinical Skills Foundation Course
		Family Medicine
		Medicine
		Orthopaedic Surgery
		Paediatrics
		Surgery
		Electives
Phase IV (Year 4)		Acute Care comprising Anaesthesia and Emergency Medicine
		Obstetrics and Gynaecology
		Psychological Medicine
		Forensic Medicine
		Ophthalmology
		Otolaryngology
		Community Health Posting
Phase V (Year 5)		Electives
		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
		Simulation
		Electives
Longitudinal Tracks: <ul style="list-style-type: none">• Health Ethics, Law & Professionalism;• Medicine & Society;• Information Literacy;• Patient-based Programme• Clinical Skills Foundation Programme.		

Examinations

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

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

YEAR OF STUDY	EXAMINATION	MODULES
Phase I (Year 1)	First Professional	Normal Structure and Function (MD1140): <ul style="list-style-type: none">• Introduction to Health & Disease• Musculoskeletal system• Blood, Respiratory and Cardiovascular systems• Renal, Fluid & Electrolyte systems• Gastrointestinal, Nutrition & Metabolism systems• Endocrine & Reproduction systems

		<ul style="list-style-type: none"> 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 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 Paediatrics Surgery
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 Simulation

Policies and Rules on Examinations

(Contact for queries: Gillian Low 6772-3746 email: medlscg@nus.edu.sg)

Policies on Examination

- 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.
- The Examination Policies and Rules described below apply to students entering the respective year of study for academic year 2013/2014.
- 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.

- A candidate who fails the main examination or any part thereof may be permitted to take a supplementary examination for the part(s) that was failed.
- 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.
- 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.
- 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.
- 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://inetapps.nus.edu.sg/registrar/exam/Guidelines-on-Special-Consideration.pdf>).

Rules on Examinations

First Professional Examination

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

3. Subject to Policies 1 to 8 above, a candidate who fails the First Professional Examination shall be re-examined at a supplementary examination in that Phase as follows:
 - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake all the papers of the required module's end of academic year examination.
 - where the candidate failed any paper of the required module's end of academic year examination – to be re-examined in that paper only.
4. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.
5. No candidate shall be permitted to take more than two (2) years from the time of his/her admission to the course of study for the degrees of Bachelor of Medicine and Bachelor of Surgery to complete the First Professional Examination.

Second Professional Examination

1. A candidate for the Second Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase II of the undergraduate medical programme.
2. A candidate may be eligible to enter Phase III, when he/she has:
 - Obtained 50% of the aggregate marks assigned to each required module (theory and clinical);
 - Obtained 50% of the aggregate marks assigned to each required module's end of academic year examination (theory and clinical); and
 - Passed a prescribed number of assessment points of the clinical module at the end of academic year examination.
3. Subject to Policies 1 to 8 above, a candidate who fails the Second Professional Examination shall be re-examined at a supplementary examination in that Phase as follows:
 - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake the required module's end of academic year examination.
 - where the candidate failed any of the required module's end of academic year examination – to retake the required module's end of academic year examination.
4. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.

Third Professional Examination

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

Fourth Professional Examination

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

the Yong Loo Lin School of Medicine for Phase IV of the undergraduate medical programme.

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

Final Professional Examination

1. A candidate for the Final Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase V of the undergraduate medical programme. There are two modules in Phase V, namely Medicine and Surgery. For the avoidance of doubt and without limitation to the foregoing, a candidate must:
 - pass all continual assessments prescribed for the Third and Fourth Year of Study, at first attempt or during remedial postings done as part of his/her electives, before he/she is eligible to undergo any posting in the Medicine and Surgery modules of Phase V; and
 - pass all final year continual assessments in order to be eligible for the Final Professional Examination.
2. A candidate who fails any one (1) or two (2) continual assessment(s) in any module prescribed for Phase V shall not be eligible to take the Final Professional Examination for that module, and shall only be eligible to take the supplementary examination as his/her first and final attempt. A candidate who fails any three (3) continual assessments in a module prescribed for Phase V shall have to repeat the whole course of study (Phase V) for that module.
3. A candidate has passed a module when he/she:
 - Obtained 50% of the aggregate marks assigned to each required module;
 - Obtained 50% of the required module's end of academic year examination;
 - Obtained 50% of the aggregate marks assigned to the clinical component of the end of academic year examination of the module; and
 - Passed a prescribed number of assessment points of the clinical component of the end of academic year examination.
4. Subject to Policies 1 to 8 above, a candidate who fails any module shall be examined at a supplementary examination in that module as follows:
 - Where the candidate failed to obtain 50% in one (1) or two (2) continual assessment(s) in a module - to take the supplementary examination in that module as his/her first and final attempt.
 - Where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessment – to retake all the components of the required module's examination.
 - Where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination – to retake all the components of the required module's examination.
 - Where the candidate failed the clinical component of the end of academic year examination for that module – to retake all the components of the required module's examination.
5. A candidate who fails or for whatever reason misses a supplementary examination in any module must repeat the whole course of study for that module.

3.2.2 Bachelor of Science (Nursing) / Bachelor of Science (Nursing) (Honours) Admissions

Admission of candidates into the B.Sc. (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 B.Sc. (Nursing) programme may be granted advanced placement credits as follows:

POLYTECHNIC	DIPLOMA	MODULES GRANTED APC	MODULAR CREDITS (MCS)	
Nanyang Polytechnic	Nursing	NUR1113 Active Ageing in Singapore	4	44
		NUR1116 Psychology for Health Professionals	4	
		SC2211 Medical Sociology	4	
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
		NUR1104 Professional Issues and Practice	3	
		NUR1109 Healthcare Ethics and Law	3	
		NUR1110 Effective Communication for Health Professionals	3	
		NUR1114 Fundamentals of Nursing	4	
		NUR1115 Maternal and Child Health Nursing	4	
		NUR1107 Clinical Practicum 1.1	3	
		NUR1108 Clinical Practicum 1.2	4	
	Social Sciences (Social Work)	1 Unrestricted Elective (UEM)	4	4
Ngee Ann Polytechnic	Health Sciences (Nursing) (HSN)	NUR1113 Active Ageing in Singapore	4	44
		NUR1116 Psychology for Health Professionals	4	
		SC2211 Medical Sociology	4	
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
		NUR1104 Professional Issues and Practice	3	
		NUR1109 Healthcare Ethics and Law	3	
		NUR1110 Effective Communication for Health Professionals	3	
		NUR1114 Fundamentals of Nursing	4	
		NUR1115 Maternal and Child Health Nursing	4	
		NUR1107 Clinical Practicum 1.1	3	
		NUR1108 Clinical Practicum 1.2	4	
	Arts Business Management	1 Unrestricted Elective (UEM)	4	4
	Biomedical Science (BMS)	1 Unrestricted Elective (UEM)	4	4
	Molecular Biotechnology (MBO)	1 Unrestricted Elective (UEM)	4	4

	Pharmacy Science (PHARM)	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
	Optometry	1 Unrestricted Elective (UEM)	4	4
	Veterinary Bioscience	1 Unrestricted Elective (UEM)	4	4
Republic Polytechnic	Health Management and Promotion	1 Unrestricted Elective (UEM)	4	4
	Pharmaceutical Sciences (DPS)	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
	Sports and Exercise Sciences (DSES)	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
Singapore Polytechnic	Applied Chemistry with Pharmaceutical Sciences ¹	1 Unrestricted Elective (UEM)	4	4
	Biomedical Sciences	1 Unrestricted Elective (UEM)	4	4
	Biotechnology	1 Unrestricted Elective (UEM)	4	4
	Material Sciences ²	1 Unrestricted Elective (UEM)	4	4
	Nutrition, Health & Wellness	1 Unrestricted Elective (UEM)	4	4
	Perfumery and Cosmetic Science ³	1 Unrestricted Elective (UEM)	4	4
Temasek Polytechnic	Pharmaceutical Sciences	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	

Note 1:
Applied Chemistry with Pharmaceutical Sciences was previously known as Diploma in Chemical Process Technology (Industrial Chemistry)

Note 2:
Material Sciences was previously known as Diploma in Chemical Process Technology (Polymer Option)

Note 3:
Perfumery and Cosmetic Science was previously known as Diploma in Chemical Process Technology (Industrial Chemistry)

Interview of Candidates

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

Health Requirements

Please refer to Health Requirements in Section 3.2.1.

Scholarships and Bursaries

Students may apply for scholarships and bursaries offered by the Alice Lee Centre for Nursing Studies, the National University of Singapore, National University Hospital (NUH), National Healthcare Group (NHG), Singapore Health Services (SingHealth) and Ministry of Health (MOH).

Bond

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

Educational Objectives

- On completion of the B.Sc. (Nursing) / B.Sc. (Nursing) (Honours) programme, a graduate will be a:
- Competent registered nurse who provides safe and informed care with compassion based on current knowledge, theory and research evidence.
 - Critical thinker able to question, interpret, apply, analyse and evaluate knowledge to make independent decisions.

- Coordinator of primary, secondary, and tertiary healthcare resources to meet patients' needs.
- Effective communicator who collects, uses, and disseminates information to optimise care outcomes.
- Advocate for the promotion and maintenance of good health, and for the rights of patients in the healthcare system.
- Exemplary professional nurse role model committed to the learning of self and others.
- Leader and researcher in nursing and related healthcare fields.

Curriculum Structure for B.Sc. (Nursing) (Honours) for students admitted from AY2010/11 onwards

Year 1	Semester 1	NUR1104	Professional Issues and Practice
		NUR1110	Effective Communication for Health Professionals
		NUR1113	Active Ageing in Singapore (GEM1901/SSM1206)
		NUR1114	Fundamentals of Nursing
		NUR1117	Anatomy and Physiology I
		NUR1107	Clinical Practicum 1.1
	Semester 2	NUR1109	Healthcare Ethics and Law
		NUR1115	Maternal and Child Health Nursing
		NUR1116	Psychology for Health Professionals
		NUR1118	Anatomy and Physiology II
		MC1000	Infection and Immunity
		NUR1108	Clinical Practicum 1.2
Year 2	Semester 1	NUR2113	Mental Health Nursing
		NUR2114	Medical/Surgical Nursing I
		NUR2115	Comprehensive Health Assessment
		NUR2117	Pathophysiology and Pharmacology I
		NUR2106	Clinical Practicum 2.1
		Unrestricted Elective (or Year 2 Sem 2 or Year 3 Sem 1)	
	Semester 2	NUR2116	Medical/Surgical Nursing II
		NUR2118	Pathophysiology and Pharmacology II
		SC2211	Medical Sociology
		NUR2107	Clinical Practicum 2.2
		Unrestricted Elective (if not done in Year 2 Sem 1)	
Year 3	Semester 1	NUR2119	Primary Health Care (GEM2023)
		NUR3103	Clinical Decision Making
		NUR 3109	Introduction to Research and Evidence-Based Practice
		NUR3113	Medical/Surgical Nursing III
		NUR3105	Clinical Practicum 3.1
		Unrestricted Elective (if not done in Year 2)	
	Semester 2	NUR3114	Leadership and Management
		NUR3115	Issues for Contemporary Nursing Practice
		NUR3116	Transition-to-Practice
		NUR4101	Evidence-based Health Care Practice (Sem 1 & 2)
		NUR4102	Consolidated Clinical Practice (Sem 1 & 2)

Honours	NUR4103	Applied Research Methods (Sem 1 only)
	NUR4104	Honours Project in Nursing (Sem 2 only)
	Unrestricted Elective	

Assessment

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

Assessment strategies that will be implemented for the B.Sc. (Nursing) programme will:

- Be holistic and designed to test the cognitive, psychomotor and affective domains of learning.
- Test the various levels of learning (knows, knows how, performs, does) as described in the Miller's pyramid (Miller, 1990).
- Ensure the validity and reliability of test instruments used for both formative and summative assessments e.g. integrated, scenario-based multiple-choice questions (MCQs) and extended matching items (EMIs) which test higher-order thinking skills will replace recall, rote-memory-based Multiple Choice Questions (MCQs).
- Include testing of clinical skills, log book record of clinical practice and case presentations at clinical conferences in its clinical assessment.
- Include multiple test instruments based on their utility with respect to the validity, reliability and practicality.
- Base pass/fail judgement on, whenever applicable, pre-determined criteria (i.e. criterion-based assessment).

Grading of Assessment and Cumulative Average Points (CAP)			
Grade	Grade Point	Grade	Grade Point
A+	5.0	C+	2.5
A	5.0	C	2.0
A-	4.5	D+	1.5
B+	4.0	D	1.0
B	3.5	F (Fail)	0.0
B-	3.0		

3.3 Special Programmes
Undergraduate Research Opportunities Programme (UROP)

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

3.4 Financial Assistance and Awards

The School has several bursaries available to full-time undergraduate M.B.,B.S. 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/corporate/education/medicine/adm_financial_assistance.aspx

There are several bursaries available to full-time undergraduate B.Sc (Nursing) students who are in need of financial assistance to help them through their course of study. For more information regarding these bursaries, the conditions of award and application, please visit: http://medicine.nus.edu.sg/nursing/prg_ug_scholarship.shtml



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Faculty of Engineering

NUS Graduate School for Integrative Sciences and Engineering

Faculty of Law

Yong Loo Lin School of Medicine

Saw Swee Hock School of Public Health

Faculty of Science

University Scholars Programme

Duke-NUS Graduate Medical School Singapore

Lee Kuan Yew School of Public Policy

Yale NUS College

Yong Siew Toh Conservatory of Music

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Centre for English Language and Communication

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Other Multidisciplinary/ Special Programmes

Bulletin Updates

Degrees Offered

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

- Bachelor of Medicine and Bachelor of Surgery (M.B.,B.S.)
- Bachelor of Science (Nursing) / Bachelor of Science (Nursing)(Honours)

Overview of Bachelor of Medicine and Bachelor of Surgery (M.B.,B.S.)

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

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

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





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

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

Part III: Modules

Modules

Archived Bulletins

-  AY2012/13
-  AY2011/12
-  AY2010/11
-  AY2009/10

Overview of Bachelor of Science (Nursing)

The B.Sc. (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.



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Degree Requirements

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- 3.2 Degree Requirements
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3.2 Degree Requirements

3.2.1 Bachelor of Medicine and Bachelor of Surgery (M.B.,B.S.)
Admission to the undergraduate medical programme

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

GCE 'A' Levels

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

International Baccalaureate

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

Admission will be computed based on a University Admissions Score and a Faculty Score. The University Admissions Score is based on the candidate's pre-university academic performance whereas the Faculty Score will be computed by means of the Focused Skills Assessment (FSA), Situational Judgement Test (SJT), and portfolio review. Candidates are shortlisted based on the University Admissions Score. All shortlisted candidates are required to submit a portfolio, attend the FSA and SJT. Candidates who do not meet shortlisting criteria but have exceptional talents or achievements may apply to be shortlisted by means of discretionary admissions process, known as the Exceptional Individual Scheme (EIS).

Health Requirements - Virus Screening and Immunisation

In addition to the conditions indicated in the offer letter, admission to Medicine is also subject to the following health requirements.

(1) Hepatitis B Virus (HBV)

In accordance with the Ministry of Health requirements, all prospective medical students must be Hepatitis B surface antigen (HBsAg) negative.

All candidates must undergo screening for Hepatitis B Virus ("HBV"). This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine, regardless of previous screening and/or immunisation. Those who are HBsAg positive (regardless of HBeAg status) will not be admitted to the Medicine undergraduate programme.

Prospective medical students who are tested negative for HBsAg but who are not immune (anti-Hepatitis B surface antibody (anti-HBsAb) negative or <10 mIU/mL) are required to obtain immunisation, within one month from the date of screening so as to protect themselves and to prevent HBV transmission in the healthcare setting. A post vaccination Hepatitis B antibody blood test will then be done one month after immunization is complete.

Candidates who fail or decline to undergo HBV screening, furnish evidence of HBV immunisation, and/or refuse to be immunised if required, will have their admission offer rescinded. The University reserves the right to require any or all of its new medical students to undergo further tests for any or all markers of the Hepatitis B virus (HBV) and exclude from admission any candidate who test positive for HBV. Students interested in Medicine are encouraged to ascertain their HBV status early.

(2) Varicella Zoster Virus (Chickenpox)

All candidates must undergo screening for immunity to the Varicella Zoster Virus (VZV). This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine, regardless of previous

screening or immunisation. Candidates who are tested negative for VZV immunity will be required to be immunised within one month from the date of screening. Certification of past infection or previous immunisation for chickenpox is not acceptable.

Students may begin classes without immunisation for VZV if:

1. The student concerned has a letter from a registered medical practitioner stating that there is a reason why he/she cannot receive the vaccine; or
2. The student concerned (or his/her parent or legal guardian, if the student is a minor) presents a statement in writing that such vaccination is against his/her sincere religious beliefs; or
3. The student concerned has documented evidence of two administrations of the varicella vaccine (non-responders).

(3) Rubella Virus

All candidates must undergo screening for immunity to the Rubella Virus. This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine regardless of previous screening or immunisation. Candidates who are tested negative for Rubella immunity will be required to be immunised within one month from the date of screening.

All candidates are encouraged to have their screenings and immunisations done at the University Health Centre (UHC) Level 1, 20 Lower Kent Ridge Road, Singapore 119080. The costs for screening and immunisation, as well as the deadlines by which the screening and immunisation must be completed, are set out in the table below.

Virus	Screening		Immunisation		Post Vaccination Screening
	Cost	Deadline	Cost	Deadline	Deadline
Hepatitis B	\$20.00	To complete by 12 July 2013	<ul style="list-style-type: none">• \$20.00 per injection• 3 injections over 6 months	To complete by 31 January 2014	<ul style="list-style-type: none">• 1 month after immunisation• Post-vaccination antibody blood test at \$10.00
Varicella Zoster (Chickenpox)	\$42.00		<ul style="list-style-type: none">• \$60.00 per injection• 2 injections over 6 to 10 weeks	To complete by 30 September 2013	Not Applicable
Rubella	\$25.00		<ul style="list-style-type: none">• \$30.00 per injection• 2 injections over 4 to 6 weeks		

*Fees are subject to change. Please refer to <http://www.nus.edu.sg/uhc/> for updates.

If you choose to be screened by a registered medical practitioner of your choice, please note the following:

1. You must submit to the UHC satisfactory proof of such screening and immunisation (where necessary) by 12 July 2013
2. You will not be able to matriculate if you do not complete your health screenings (Hepatitis B, Varicella Zoster and Rubella) by 12 July 2013.
3. For subsequent immunisation(s), you must submit to the Dean's Office at the Yong Loo Lin School of Medicine, satisfactory proof of such immunisation(s) by the stipulated deadline(s).

The above Health Requirements and costs are subject to change. All updates will be available on our Corporate Website at <http://www.med.nus.edu.sg/corporate/>. If you need clarification on any of these issues, please contact our staff at UHC at Tel: 6776 1631.

Bonds for Medical Students

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

	Singaporeans	Singapore PR and International students
No. of Years of Bond	5 (excluding housemanship / first year residency training)	6 (excluding housemanship / first year residency training)

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

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

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

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

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

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

*Note:

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

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

If you need further information, please visit the Ministry of Health website at

<http://www.moh.gov.sg/content>

[/moh_web/healthprofessionalsportal/allhealthcareprofessionals/career_practice/medical_dental_undergraduate_agreement.html](http://www.moh.gov.sg/content/moh_web/healthprofessionalsportal/allhealthcareprofessionals/career_practice/medical_dental_undergraduate_agreement.html)

or contact Mrs Chew Meow Kheng of the Ministry of Health at Tel: 6325 9104.

Educational Aims

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

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

Education Outcomes

Our graduates will:

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

Medical Knowledge

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

Patient Care

- Achieve a sufficient level of medical knowledge and clinical skill to be a highly competent medical practitioner who will be an effective house officer on graduation and have the capacity for further training to be a proficient general practitioner or specialist.
- Demonstrate the ability for effective and efficient data collection, synthesis and critical analysis in the prevention, diagnosis and management of disease.
- Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Interpersonal and Communication Skills

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

Professionalism

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

Practice-based Learning and Improvement

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

Systems-based Practice

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

Longitudinal Tracks

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

Health Ethics, Law and Professionalism

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

Information Literacy

This longitudinal track aims to enable all students to gather and critically evaluate research information, effectively incorporate the selected information into their knowledge base and apply the knowledge in patient care, and also to lay the foundation for future training in carrying out high quality research.

Medicine and Society

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

Patient-based Programme and Clinical Skills Foundation Programme

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

Course of Study

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

Phase I (Year 1)	Introduction to Health & Disease	
	Musculoskeletal System	
	Blood, Respiratory & Cardiovascular Systems	
	Renal, Fluid & Electrolyte Systems	
	Gastrointestinal, Nutrition & Metabolism Systems	
	Endocrine & Reproduction Systems	
	Neuroscience with Head & Neck	
	Genetics and Genomics	
	Cancer Biology	
	Immunology	
	Clinical Microbiology & Infection	

Phase II (Year 2)	Principles of Pharmacology and Systemic Pharmacology	Longitudinal Tracks: <ul style="list-style-type: none">• Health Ethics, Law & Professionalism;• Medicine & Society;• Information Literacy;• Patient-based Programme• Clinical Skills Foundation Programme.
	Principles of Pathology and Systemic Pathology	
	Neuroscience & Musculoskeletal	
	Foundations in Geriatric Medicine	
	Clinical Skills Foundation Course	
Phase III (Year 3)	Family Medicine	
	Medicine	
	Orthopaedic Surgery	
	Paediatrics	
	Surgery	
	Electives	
Phase IV (Year 4)	Acute Care comprising Anaesthesia and Emergency Medicine	
	Obstetrics and Gynaecology	
	Psychological Medicine	
	Forensic Medicine	
	Ophthalmology	
	Otolaryngology	
	Community Health Posting	
	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	
	Simulation	
	Electives	

Examinations

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

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

YEAR OF STUDY	EXAMINATION	MODULES
Phase I (Year 1)	First Professional	Normal Structure and Function (MD1140): <ul style="list-style-type: none">• Introduction to Health & Disease• Musculoskeletal system• Blood, Respiratory and Cardiovascular systems• Renal, Fluid & Electrolyte systems• Gastrointestinal, Nutrition & Metabolism systems• Endocrine & Reproduction systems• Neuroscience with Head and Neck
		Abnormal Structure and Function (MD2140): <ul style="list-style-type: none">• Genetics and Genomics• Cancer Biology

Phase II (Year 2)	Second Professional	<ul style="list-style-type: none">ImmunologyClinical Microbiology & InfectionPrinciples of Pharmacology and Systemic PharmacologyPrinciples of Pathology and Systemic PathologyNeuroscience & MusculoskeletalFoundations 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 MedicineMedicineOrthopaedic SurgeryPaediatricsSurgery
Phase IV (Year 4)	Fourth Professional	Acute and Specialty Clinical Practice (MD4140): <ul style="list-style-type: none">Obstetrics and GynaecologyPsychological MedicineAcute Care comprising Anaesthesia and Emergency MedicineSpecialties 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 SIPPaediatrics SIPSpecialties Posting comprising Dermatology and Infectious Disease Surgery (MD5150) <ul style="list-style-type: none">Surgery SIPOrthopaedic Surgery SIPSimulation

Policies and Rules on Examinations

(Contact for queries: Gillian Low 6772-3746 email: medlscg@nus.edu.sg)

Policies on Examination

- 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.
- The Examination Policies and Rules described below apply to students entering the respective year of study for academic year 2013/2014.
- 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.

- A candidate who fails the main examination or any part thereof may be permitted to take a supplementary examination for the part(s) that was failed.
- 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.
- 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.
- 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.
- 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://inetapps.nus.edu.sg/registrar/exam/Guidelines-on-Special-Consideration.pdf>).

Rules on Examinations

First Professional Examination

- A candidate for the First Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase I of the undergraduate medical programme.
- A candidate may be eligible to enter Phase II when he/she has:
 - Obtained 50% of the aggregate marks assigned to each required module;
 - Obtained 50% of the aggregate marks assigned to the end of academic year examination; and
 - Obtained 50% of the marks assigned to each paper of the end of academic year examination.
- Subject to Policies 1 to 8 above, a candidate who fails the First Professional Examination shall be re-examined at a supplementary examination in that Phase as follows:
 - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake all the papers of the required module's

- end of academic year examination.
 - where the candidate failed any paper of the required module's end of academic year examination – to be re-examined in that paper only.
4. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.
 5. No candidate shall be permitted to take more than two (2) years from the time of his/her admission to the course of study for the degrees of Bachelor of Medicine and Bachelor of Surgery to complete the First Professional Examination.

Second Professional Examination

1. A candidate for the Second Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase II of the undergraduate medical programme.
2. A candidate may be eligible to enter Phase III, when he/she has:
 - Obtained 50% of the aggregate marks assigned to each required module (theory and clinical);
 - Obtained 50% of the aggregate marks assigned to each required module's end of academic year examination (theory and clinical); and
 - Passed a prescribed number of assessment points of the clinical module at the end of academic year examination.
3. Subject to Policies 1 to 8 above, a candidate who fails the Second Professional Examination shall be re-examined at a supplementary examination in that Phase as follows:
 - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake the required module's end of academic year examination.
 - where the candidate failed any of the required module's end of academic year examination – to retake the required module's end of academic year examination.
4. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.

Third Professional Examination

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

Fourth Professional Examination

1. A candidate for the Fourth Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase IV of the undergraduate medical programme.
2. A candidate who fails any one (1) continual assessment prescribed for Phase IV shall be permitted to take the Fourth Professional Examination but will need to remediate and pass the failed continual assessments before

embarking on Phase V postings. A candidate who fails any two (2) continual assessments prescribed for Phase IV shall not be eligible to take the Fourth Professional Examination and shall only be eligible to take the supplementary examination as his/her first and final attempt and will need to remediate and pass the failed continual assessments before embarking on Phase V postings. A candidate who fails any three (3) continual assessments prescribed for Phase IV will have to repeat the whole course of study for that Phase.

3. A candidate may be eligible to enter Phase V, when he/she has:
 - Obtained 50% of the aggregate marks assigned to each required module;
 - Obtained 50% of the aggregate marks assigned to each component (theory and clinical) of the end of academic year examination; and
 - Passed a prescribed number of assessment points of the clinical component of the end of academic year examination.
4. Subject to Policies 1 to 8 above, a candidate who fails the Fourth Professional Examination shall be examined at a supplementary examination in that Phase as follows:
 - where the candidate failed to obtain 50% of two major continual assessments - to take the supplementary examination as his/her first and final attempt.
 - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake all the components of the required module's end of academic year examination.
 - where the candidate failed any component of the required module's end of academic year examination – to be re-examined in that component only.
5. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.

Final Professional Examination

1. A candidate for the Final Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase V of the undergraduate medical programme. There are two modules in Phase V, namely Medicine and Surgery. For the avoidance of doubt and without limitation to the foregoing, a candidate must:
 - pass all continual assessments prescribed for the Third and Fourth Year of Study, at first attempt or during remedial postings done as part of his/her electives, before he/she is eligible to undergo any posting in the Medicine and Surgery modules of Phase V; and
 - pass all final year continual assessments in order to be eligible for the Final Professional Examination.
2. A candidate who fails any one (1) or two (2) continual assessment(s) in any module prescribed for Phase V shall not be eligible to take the Final Professional Examination for that module, and shall only be eligible to take the supplementary examination as his/her first and final attempt. A candidate who fails any three (3) continual assessments in a module prescribed for Phase V shall have to repeat the whole course of study (Phase V) for that module.
3. A candidate has passed a module when he/she:
 - Obtained 50% of the aggregate marks assigned to each required module;
 - Obtained 50% of the required module's end of academic year examination;
 - Obtained 50% of the aggregate marks assigned to the clinical component of the end of academic year examination of the module; and
 - Passed a prescribed number of assessment points of the clinical component of the end of academic year examination.
4. Subject to Policies 1 to 8 above, a candidate who fails any module shall be examined at a supplementary examination in that module as follows:
 - Where the candidate failed to obtain 50% in one (1) or two (2) continual assessment(s) in a module - to take the supplementary examination in that module as his/her first and final attempt.
 - Where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessment – to retake all the components of the required module's examination.
 - Where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination – to retake all the components of the required module's examination.
 - Where the candidate failed the clinical component of the end of academic year examination for that module – to retake all the components of the required module's examination.
5. A candidate who fails or for whatever reason misses a supplementary examination in any module must repeat the whole course of study for that module.

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

Admissions

Admission of candidates into the B.Sc. (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 B.Sc. (Nursing) programme may be granted advanced placement credits as follows:

POLYTECHNIC	DIPLOMA	MODULES GRANTED APC	MODULAR CREDITS (MCS)	
Nanyang Polytechnic	Nursing	NUR1113 Active Ageing in Singapore	4	44
		NUR1116 Psychology for Health Professionals	4	
		SC2211 Medical Sociology	4	
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
		NUR1104 Professional Issues and Practice	3	
		NUR1109 Healthcare Ethics and Law	3	
		NUR1110 Effective Communication for Health Professionals	3	
		NUR1114 Fundamentals of Nursing	4	
		NUR1115 Maternal and Child Health Nursing	4	
		NUR1107 Clinical Practicum 1.1	3	
		NUR1108 Clinical Practicum 1.2	4	
	Social Sciences (Social Work)	1 Unrestricted Elective (UEM)	4	4
Ngee Ann Polytechnic	Health Sciences (Nursing) (HSN)	NUR1113 Active Ageing in Singapore	4	44
		NUR1116 Psychology for Health Professionals	4	
		SC2211 Medical Sociology	4	
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
		NUR1104 Professional Issues and Practice	3	
		NUR1109 Healthcare Ethics and Law	3	
		NUR1110 Effective Communication for Health Professionals	3	
		NUR1114 Fundamentals of Nursing	4	
		NUR1115 Maternal and Child Health Nursing	4	
		NUR1107 Clinical Practicum 1.1	3	
		NUR1108 Clinical Practicum 1.2	4	
	Arts Business Management	1 Unrestricted Elective (UEM)	4	4
	Biomedical Science (BMS)	1 Unrestricted Elective (UEM)	4	4
	Molecular Biotechnology (MBIO)	1 Unrestricted Elective (UEM)	4	4
	Pharmacy Science (PHARM)	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	

		NUR1118 Anatomy and Physiology II	4	
	Optometry	1 Unrestricted Elective (UEM)	4	4
	Veterinary Bioscience	1 Unrestricted Elective (UEM)	4	4
Republic Polytechnic	Health Management and Promotion	1 Unrestricted Elective (UEM)	4	4
	Pharmaceutical Sciences (DPS)	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
	Sports and Exercise Sciences (DSES)	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
Singapore Polytechnic	Applied Chemistry with Pharmaceutical Sciences ¹	1 Unrestricted Elective (UEM)	4	4
	Biomedical Sciences	1 Unrestricted Elective (UEM)	4	4
	Biotechnology	1 Unrestricted Elective (UEM)	4	4
	Material Sciences ²	1 Unrestricted Elective (UEM)	4	4
	Nutrition, Health & Wellness	1 Unrestricted Elective (UEM)	4	4
	Perfumery and Cosmetic Science ³	1 Unrestricted Elective (UEM)	4	4
Temasek Polytechnic	Pharmaceutical Sciences	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	

Note 1:
Applied Chemistry with Pharmaceutical Sciences was previously known as Diploma in Chemical Process Technology (Industrial Chemistry)

Note 2:
Material Sciences was previously known as Diploma in Chemical Process Technology (Polymer Option)

Note 3:
Perfumery and Cosmetic Science was previously known as Diploma in Chemical Process Technology (Industrial Chemistry)

Interview of Candidates

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

Health Requirements

Please refer to Health Requirements in Section 3.2.1.

Scholarships and Bursaries

Students may apply for scholarships and bursaries offered by the Alice Lee Centre for Nursing Studies, the National University of Singapore, National University Hospital (NUH), National Healthcare Group (NHG), Singapore Health Services (SingHealth) and Ministry of Health (MOH).

Bond

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

Educational Objectives

- On completion of the B.Sc. (Nursing) / B.Sc. (Nursing) (Honours) programme, a graduate will be a:
- Competent registered nurse who provides safe and informed care with compassion based on current knowledge, theory and research evidence.
 - Critical thinker able to question, interpret, apply, analyse and evaluate knowledge to make independent decisions.
 - Coordinator of primary, secondary, and tertiary healthcare resources to meet patients' needs.
 - Effective communicator who collects, uses, and disseminates information to optimise care outcomes.
 - Advocate for the promotion and maintenance of good health, and for the rights of patients in the healthcare system.

- Exemplary professional nurse role model committed to the learning of self and others.
- Leader and researcher in nursing and related healthcare fields.

Curriculum Structure for B.Sc. (Nursing) (Honours) for students admitted from AY2010/11 onwards

Year 1	Semester 1	NUR1104	Professional Issues and Practice	
		NUR1110	Effective Communication for Health Professionals	
		NUR1113	Active Ageing in Singapore (GEM1901/SSM1206)	
		NUR1114	Fundamentals of Nursing	
		NUR1117	Anatomy and Physiology I	
		NUR1107	Clinical Practicum 1.1	
	Semester 2	NUR1109	Healthcare Ethics and Law	
		NUR1115	Maternal and Child Health Nursing	
		NUR1116	Psychology for Health Professionals	
		NUR1118	Anatomy and Physiology II	
		MC1000	Infection and Immunity	
		NUR1108	Clinical Practicum 1.2	
Year 2	Semester 1	NUR2113	Mental Health Nursing	
		NUR2114	Medical/Surgical Nursing I	
		NUR2115	Comprehensive Health Assessment	
		NUR2117	Pathophysiology and Pharmacology I	
		NUR2106	Clinical Practicum 2.1	
		Unrestricted Elective (or Year 2 Sem 2 or Year 3 Sem 1)		
	Semester 2	NUR2116	Medical/Surgical Nursing II	
		NUR2118	Pathophysiology and Pharmacology II	
		SC2211	Medical Sociology	
		NUR2107	Clinical Practicum 2.2	
		Unrestricted Elective (if not done in Year 2 Sem 1)		
Year 3	Semester 1	NUR2119	Primary Health Care (GEM2023)	
		NUR3103	Clinical Decision Making	
		NUR 3109	Introduction to Research and Evidence-Based Practice	
		NUR3113	Medical/Surgical Nursing III	
		NUR3105	Clinical Practicum 3.1	
		Unrestricted Elective (if not done in Year 2)		
	Semester 2	NUR3114	Leadership and Management	
		NUR3115	Issues for Contemporary Nursing Practice	
		NUR3116	Transition-to-Practice	
Honours			NUR4101	Evidence-based Health Care Practice (Sem 1 & 2)
			NUR4102	Consolidated Clinical Practice (Sem 1 & 2)
			NUR4103	Applied Research Methods (Sem 1 only)

	NUR4104	Honours Project in Nursing (Sem 2 only)
	Unrestricted Elective	

Assessment

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

Assessment strategies that will be implemented for the B.Sc. (Nursing) programme will:

- Be holistic and designed to test the cognitive, psychomotor and affective domains of learning.
- Test the various levels of learning (knows, knows how, performs, does) as described in the Miller's pyramid (Miller, 1990).
- Ensure the validity and reliability of test instruments used for both formative and summative assessments e.g. integrated, scenario-based multiple-choice questions (MCQs) and extended matching items (EMIs) which test higher-order thinking skills will replace recall, rote-memory-based Multiple Choice Questions (MCQs).
- Include testing of clinical skills, log book record of clinical practice and case presentations at clinical conferences in its clinical assessment.
- Include multiple test instruments based on their utility with respect to the validity, reliability and practicality.
- Base pass/fail judgement on, whenever applicable, pre-determined criteria (i.e. criterion-based assessment).

Grading of Assessment and Cumulative Average Points (CAP)			
Grade	Grade Point	Grade	Grade Point
A+	5.0	C+	2.5
A	5.0	C	2.0
A-	4.5	D+	1.5
B+	4.0	D	1.0
B	3.5	F (Fail)	0.0
B-	3.0		



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Bachelor of Medicine and Bachelor of Surgery (M.B.,B.S.)

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Admission to the undergraduate medical programme

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

GCE 'A' Levels

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

International Baccalaureate

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

Admission will be computed based on a University Admissions Score and a Faculty Score. The University Admissions Score is based on the candidate's pre-university academic performance whereas the Faculty Score will be computed by means of the Focused Skills Assessment (FSA), Situational Judgement Test (SJT), and portfolio review. Candidates are shortlisted based on the University Admissions Score. All shortlisted candidates are required to submit a portfolio, attend the FSA and SJT. Candidates who do not meet shortlisting criteria but have exceptional talents or achievements may apply to be shortlisted by means of discretionary admissions process, known as the Exceptional Individual Scheme (EIS).

Health Requirements - Virus Screening and Immunisation

In addition to the conditions indicated in the offer letter, admission to Medicine is also subject to the following health requirements.

(1) Hepatitis B Virus (HBV)

In accordance with the Ministry of Health requirements, all prospective medical students must be Hepatitis B surface antigen (HBsAg) negative.

All candidates must undergo screening for Hepatitis B Virus ("HBV"). This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine, regardless of previous screening and/or immunisation. Those who are HBsAg positive (regardless of HBeAg status) will not be admitted to the Medicine undergraduate programme.

Prospective medical students who are tested negative for HBsAg but who are not immune (anti-Hepatitis B surface antibody (anti-HBsAb) negative or <10 mIU/mL) are required to obtain immunisation, within one month from the date of screening so as to protect themselves and to prevent HBV transmission in the healthcare setting. A post vaccination Hepatitis B antibody blood test will then be done one month after immunization is complete.

Part III: Modules

Modules

Archived Bulletins

- AY2012/13
- AY2011/12
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Candidates who fail or decline to undergo HBV screening, furnish evidence of HBV immunisation, and/or refuse to be immunised if required, will have their admission offer rescinded. The University reserves the right to require any or all of its new medical students to undergo further tests for any or all markers of the Hepatitis B virus (HBV) and exclude from admission any candidate who test positive for HBV. Students interested in Medicine are encouraged to ascertain their HBV status early.

(2) Varicella Zoster Virus (Chickenpox)

All candidates must undergo screening for immunity to the Varicella Zoster Virus (VZV). This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine, regardless of previous screening or immunisation. Candidates who are tested negative for VZV immunity will be required to be immunised within one month from the date of screening. Certification of past infection or previous immunisation for chickenpox is not acceptable.

Students may begin classes without immunisation for VZV if:

1. The student concerned has a letter from a registered medical practitioner stating that there is a reason why he/she cannot receive the vaccine; or
2. The student concerned (or his/her parent or legal guardian, if the student is a minor) presents a statement in writing that such vaccination is against his/her sincere religious beliefs; or
3. The student concerned has documented evidence of two administrations of the varicella vaccine (non-responders).

(3) Rubella Virus

All candidates must undergo screening for immunity to the Rubella Virus. This must be done after 1 February in the calendar year the candidates plan to enroll at Yong Loo Lin School of Medicine regardless of previous screening or immunisation. Candidates who are tested negative for Rubella immunity will be required to be immunised within one month from the date of screening.

All candidates are encouraged to have their screenings and immunisations done at the University Health Centre (UHC) Level 1, 20 Lower Kent Ridge Road, Singapore 119080. The costs for screening and immunisation, as well as the deadlines by which the screening and immunisation must be completed, are set out in the table below.

Virus	Screening		Immunisation		Post Vaccination Screening
	Cost	Deadline	Cost	Deadline	Deadline
Hepatitis B	\$20.00	To complete by 12 July 2013	<ul style="list-style-type: none">\$20.00 per injection3 injections over 6 months	To complete by 31 January 2014	<ul style="list-style-type: none">1 month after immunisationPost-vaccination antibody blood test at \$10.00
Varicella Zoster (Chickenpox)	\$42.00		<ul style="list-style-type: none">\$60.00 per injection2 injections over 6 to 10 weeks	To complete by 30 September 2013	Not Applicable
Rubella	\$25.00		<ul style="list-style-type: none">\$30.00 per injection2 injections over 4 to 6 weeks		

*Fees are subject to change. Please refer to <http://www.nus.edu.sg/uhc/> for updates.

If you choose to be screened by a registered medical practitioner of your choice, please note the following:

1. You must submit to the UHC satisfactory proof of such screening and immunisation (where necessary) by 12 July 2013
2. You will not be able to matriculate if you do not complete your health screenings (Hepatitis B, Varicella Zoster and

- Rubella) by 12 July 2013.
3. For subsequent immunisation(s), you must submit to the Dean's Office at the Yong Loo Lin School of Medicine, satisfactory proof of such immunisation(s) by the stipulated deadline(s).

The above Health Requirements and costs are subject to change. All updates will be available on our Corporate Website at <http://www.med.nus.edu.sg/corporate/>. If you need clarification on any of these issues, please contact our staff at UHC at Tel: 6776 1631.

Bonds for Medical Students

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

	Singaporeans	Singapore PR and International students
No. of Years of Bond	5 (excluding housemanship / first year residency training)	6 (excluding housemanship / first year residency training)

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

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

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

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

- For signing of the bond, two persons are required to stand as your sureties. Your sureties should:
- 1. Be above 21 years of age and preferably under 65 years of age;
 - 2. Not be in bankruptcy;
 - 3. Either be:
 - a. Able to provide proof of financial means to pay the scholarship liabilities should it become due, viz. banker's guarantee or proof of ownership of assets*;
 - or is
 - b. Gainfully employed and drawing an income of at least S\$1,000 per month;
 - c. Not party to an existing bond, scholarship or bursary; and
 - d. Not bonded for an existing scholarship, bursary or study loan agreement.

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

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

If you need further information, please visit the Ministry of Health website at http://www.moh.gov.sg/content/moh_web/healthprofessionalsportal/allhealthcareprofessionals/career_practice/medical_dental_undergraduate_agreement.html or contact Mrs Chew Meow Kheng of the Ministry of Health at Tel: 6325 9104.

Educational Aims

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

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

Education Outcomes

Our graduates will:

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

Medical Knowledge

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

Patient Care

- Achieve a sufficient level of medical knowledge and clinical skill to be a highly competent medical practitioner who will be an effective house officer on graduation and have the capacity for further training to be a proficient general practitioner or specialist.
- Demonstrate the ability for effective and efficient data collection, synthesis and critical analysis in the prevention, diagnosis and management of disease.
- Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Interpersonal and Communication Skills

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

Professionalism

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

Practice-based Learning and Improvement

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

Systems-based Practice

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

Longitudinal Tracks

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

Health Ethics, Law and Professionalism

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

Information Literacy

This longitudinal track aims to enable all students to gather and critically evaluate research information, effectively incorporate the selected information into their knowledge base and apply the knowledge in patient care, and also to lay the foundation for future training in carrying out high quality research.

Medicine and Society

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

Patient-based Programme and Clinical Skills Foundation Programme

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

Course of Study

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

Phase I (Year 1)	Introduction to Health & Disease	
	Musculoskeletal System	
	Blood, Respiratory & Cardiovascular Systems	
	Renal, Fluid & Electrolyte Systems	
	Gastrointestinal, Nutrition & Metabolism Systems	
	Endocrine & Reproduction Systems	
	Neuroscience with Head & Neck	
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	Longitudinal Tracks: <ul style="list-style-type: none">• Health Ethics, Law & Professionalism;• Medicine & Society;• Information Literacy;• Patient-based Programme• Clinical Skills Foundation Programme.
	Neuroscience & Musculoskeletal	
	Foundations in Geriatric Medicine	
	Clinical Skills Foundation Course	
Phase III (Year 3)	Family Medicine	
	Medicine	
	Orthopaedic Surgery	
	Paediatrics	
	Surgery	
	Electives	
Phase IV (Year 4)	Acute Care comprising Anaesthesia and Emergency Medicine	
	Obstetrics and Gynaecology	
	Psychological Medicine	
	Forensic Medicine	
	Ophthalmology	
	Otolaryngology	
	Community Health Posting	
	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	
	Simulation	
	Electives	

Examinations

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

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

YEAR OF STUDY	EXAMINATION	MODULES
Phase I (Year 1)	First Professional	Normal Structure and Function (MD1140): <ul style="list-style-type: none">• Introduction to Health & Disease• 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• 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• Paediatrics• Surgery
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• Simulation

Policies and Rules on Examinations

(Contact for queries: Gillian Low 6772-3746 email: medlscg@nus.edu.sg)

Policies on Examination

1. The course of study for the degrees of Bachelor of Medicine and Bachelor of Surgery lasts five years and consists of modules and tracks prescribed by the Yong Loo Lin School of Medicine.
2. The Examination Policies and Rules described below apply to students entering the respective year of study for academic year 2013/2014.
3. There are five examinations leading to the degrees of Bachelor of Medicine and Bachelor of Surgery, namely:

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

4. A candidate who fails the main examination or any part thereof may be permitted to take a supplementary examination for the part(s) that was failed.
5. A candidate may be granted up to a maximum of two calendar years of medical leave or leave of absence during the whole course of study. This may be extended only under extenuating circumstances, with the approval of the Dean.
6. Candidates shall not be permitted to take more than six (6) years, excluding approved leaves of absence, from the time of his/her admission to the course of study, to complete the prescribed examinations for the degrees of Bachelor of Medicine and Bachelor of Surgery.
7. A distinction in any module of the course may be awarded by the Board of Examiners to a candidate who at his/her first sitting at the main examination obtains not less than 85% of the aggregate marks assigned to the module and not less than 50% in any other required module of that Phase.
8. Students may submit an application for Special Consideration, if they have circumstances that may adversely affect their examination performance. The application will be reviewed on a case-by-case basis, according to principles set by NUS Special Consideration Guidelines (<https://inetapps.nus.edu.sg/registrar/exam/Guidelines-on-Special-Consideration.pdf>).

Rules on Examinations

First Professional Examination

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

Second Professional Examination

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

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

Third Professional Examination

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

Fourth Professional Examination

1. A candidate for the Fourth Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase IV of the undergraduate medical programme.
2. A candidate who fails any one (1) continual assessment prescribed for Phase IV shall be permitted to take the

Fourth Professional Examination but will need to remediate and pass the failed continual assessments before embarking on Phase V postings. A candidate who fails any two (2) continual assessments prescribed for Phase IV shall not be eligible to take the Fourth Professional Examination and shall only be eligible to take the supplementary examination as his/her first and final attempt and will need to remediate and pass the failed continual assessments before embarking on Phase V postings. A candidate who fails any three (3) continual assessments prescribed for Phase IV will have to repeat the whole course of study for that Phase.

3. A candidate may be eligible to enter Phase V, when he/she has:
 - Obtained 50% of the aggregate marks assigned to each required module;
 - Obtained 50% of the aggregate marks assigned to each component (theory and clinical) of the end of academic year examination; and
 - Passed a prescribed number of assessment points of the clinical component of the end of academic year examination.
4. Subject to Policies 1 to 8 above, a candidate who fails the Fourth Professional Examination shall be examined at a supplementary examination in that Phase as follows:
 - where the candidate failed to obtain 50% of two major continual assessments - to take the supplementary examination as his/her first and final attempt.
 - where the candidate failed to obtain 50% of the aggregate marks assigned to the required module's end of academic year examination and continual assessments – to retake all the components of the required module's end of academic year examination.
 - where the candidate failed any component of the required module's end of academic year examination – to be re-examined in that component only.
5. A candidate who fails or for whatever reason misses a supplementary examination must repeat the whole course of study for that Phase.

Final Professional Examination

1. A candidate for the Final Professional Examination must have followed and completed, to the satisfaction of the Dean of the Yong Loo Lin School of Medicine, for not less than two semesters, the courses of study prescribed by the Yong Loo Lin School of Medicine for Phase V of the undergraduate medical programme. There are two modules in Phase V, namely Medicine and Surgery. For the avoidance of doubt and without limitation to the foregoing, a candidate must:
 - pass all continual assessments prescribed for the Third and Fourth Year of Study, at first attempt or during remedial postings done as part of his/her electives, before he/she is eligible to undergo any posting in the Medicine and Surgery modules of Phase V; and
 - pass all final year continual assessments in order to be eligible for the Final Professional Examination.
2. A candidate who fails any one (1) or two (2) continual assessment(s) in any module prescribed for Phase V shall not be eligible to take the Final Professional Examination for that module, and shall only be eligible to take the supplementary examination as his/her first and final attempt. A candidate who fails any three (3) continual assessments in a module prescribed for Phase V shall have to repeat the whole course of study (Phase V) for that module.
3. A candidate has passed a module when he/she:
 - Obtained 50% of the aggregate marks assigned to each required module;
 - Obtained 50% of the required module's end of academic year examination;
 - Obtained 50% of the aggregate marks assigned to the clinical component of the end of academic year examination of the module; and
 - Passed a prescribed number of assessment points of the clinical component of the end of academic year examination.
4. Subject to Policies 1 to 8 above, a candidate who fails any module shall be examined at a supplementary

examination in that module as follows:

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



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Admissions

Admission of candidates into the B.Sc. (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 B.Sc. (Nursing) programme may be granted advanced placement credits as follows:


POLYTECHNIC	DIPLOMA	MODULES GRANTED APC	MODULAR CREDITS (MCS)	
Nanyang Polytechnic	Nursing	NUR1113 Active Ageing in Singapore	4	44
		NUR1116 Psychology for Health Professionals	4	
		SC2211 Medical Sociology	4	
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	
		NUR1104 Professional Issues and Practice	3	
		NUR1109 Healthcare Ethics and Law	3	
		NUR1110 Effective Communication for Health Professionals	3	
		NUR1114 Fundamentals of Nursing	4	


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			NUR1115 Maternal and Child Health Nursing	4	
			NUR1107 Clinical Practicum 1.1	3	
			NUR1108 Clinical Practicum 1.2	4	
		Social Sciences (Social Work)	1 Unrestricted Elective (UEM)	4	4
Ngee Ann Polytechnic	Health Sciences (Nursing) (HSN)		NUR1113 Active Ageing in Singapore	4	44
			NUR1116 Psychology for Health Professionals	4	
			SC2211 Medical Sociology	4	
			NUR1117 Anatomy and Physiology I	4	
			NUR1118 Anatomy and Physiology II	4	
			NUR1104 Professional Issues and Practice	3	
			NUR1109 Healthcare Ethics and Law	3	
			NUR1110 Effective Communication for Health Professionals	3	
			NUR1114 Fundamentals of Nursing	4	
			NUR1115 Maternal and Child Health Nursing	4	
			NUR1107 Clinical Practicum 1.1	3	
			NUR1108 Clinical Practicum 1.2	4	
	Arts Business Management	1 Unrestricted Elective (UEM)		4	4
	Biomedical Science (BMS)	1 Unrestricted Elective (UEM)		4	4
	Molecular Biotechnology (MBIO)	1 Unrestricted Elective (UEM)		4	4
	Pharmacy Science (PHARM)	1 Unrestricted Elective (UEM)		4	12
		NUR1117 Anatomy and Physiology I		4	
		NUR1118 Anatomy and Physiology II		4	
	Optometry	1 Unrestricted Elective (UEM)		4	4
	Veterinary Bioscience	1 Unrestricted Elective (UEM)		4	4
Republic Polytechnic	Health Management and Promotion	1 Unrestricted Elective (UEM)		4	4
	Pharmaceutical Sciences (DPS)	1 Unrestricted Elective (UEM)		4	12
		NUR1117 Anatomy and Physiology I		4	
		NUR1118 Anatomy and Physiology II		4	
	Sports and Exercise	1 Unrestricted Elective (UEM)		4	

	Sciences (DSES)	NUR1117 Anatomy and Physiology I	4	12
		NUR1118 Anatomy and Physiology II	4	
Singapore Polytechnic	Applied Chemistry with Pharmaceutical Sciences ¹	1 Unrestricted Elective (UEM)	4	4
	Biomedical Sciences	1 Unrestricted Elective (UEM)	4	4
	Biotechnology	1 Unrestricted Elective (UEM)	4	4
	Material Sciences ²	1 Unrestricted Elective (UEM)	4	4
	Nutrition, Health & Wellness	1 Unrestricted Elective (UEM)	4	4
	Perfumery and Cosmetic Science ³	1 Unrestricted Elective (UEM)	4	4
Temasek Polytechnic	Pharmaceutical Sciences	1 Unrestricted Elective (UEM)	4	12
		NUR1117 Anatomy and Physiology I	4	
		NUR1118 Anatomy and Physiology II	4	

Note 1:
 Applied Chemistry with Pharmaceutical Sciences was previously known as Diploma in Chemical Process Technology (Industrial Chemistry)

Note 2:
 Material Sciences was previously known as Diploma in Chemical Process Technology (Polymer Option)

Note 3:
 Perfumery and Cosmetic Science was previously known as Diploma in Chemical Process Technology (Industrial Chemistry)

Interview of Candidates

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

Health Requirements

Please refer to Health Requirements in Section 3.2.1.

Scholarships and Bursaries

Students may apply for scholarships and bursaries offered by the Alice Lee Centre for Nursing Studies, the National University of Singapore, National University Hospital (NUH), National Healthcare Group (NHG), Singapore Health Services (SingHealth) and Ministry of Health (MOH).

Bond

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

Educational Objectives

- On completion of the B.Sc. (Nursing) / B.Sc. (Nursing) (Honours) programme, a graduate will be a:
- Competent registered nurse who provides safe and informed care with compassion based on current knowledge, theory and research evidence.
 - Critical thinker able to question, interpret, apply, analyse and evaluate knowledge to make independent decisions.

Coordinator of primary, secondary, and tertiary healthcare resources to meet patients' needs.

- Effective communicator who collects, uses, and disseminates information to optimise care outcomes.
- Advocate for the promotion and maintenance of good health, and for the rights of patients in the healthcare system.
- Exemplary professional nurse role model committed to the learning of self and others.
- Leader and researcher in nursing and related healthcare fields.

Curriculum Structure for B.Sc. (Nursing) (Honours) for students admitted from AY2010/11 onwards

Year 1	Semester 1	NUR1104	Professional Issues and Practice
		NUR1110	Effective Communication for Health Professionals
		NUR1113	Active Ageing in Singapore (GEM1901/SSM1206)
		NUR1114	Fundamentals of Nursing
		NUR1117	Anatomy and Physiology I
		NUR1107	Clinical Practicum 1.1
	Semester 2	NUR1109	Healthcare Ethics and Law
		NUR1115	Maternal and Child Health Nursing
		NUR1116	Psychology for Health Professionals
		NUR1118	Anatomy and Physiology II
		MC1000	Infection and Immunity
		NUR1108	Clinical Practicum 1.2
Year 2	Semester 1	NUR2113	Mental Health Nursing
		NUR2114	Medical/Surgical Nursing I
		NUR2115	Comprehensive Health Assessment
		NUR2117	Pathophysiology and Pharmacology I
		NUR2106	Clinical Practicum 2.1
		Unrestricted Elective (or Year 2 Sem 2 or Year 3 Sem 1)	
	Semester 2	NUR2116	Medical/Surgical Nursing II
		NUR2118	Pathophysiology and Pharmacology II
		SC2211	Medical Sociology
		NUR2107	Clinical Practicum 2.2
		Unrestricted Elective (if not done in Year 2 Sem 1)	
		NUR2119	Primary Health Care (GEM2023)
		NUR3103	Clinical Decision Making
		NUR 3109	Introduction to Research and Evidence-Based Practice

Year 3	Semester 1	NUR3113	Medical/Surgical Nursing III
		NUR3105	Clinical Practicum 3.1
		Unrestricted Elective (if not done in Year 2)	
	Semester 2	NUR3114	Leadership and Management
		NUR3115	Issues for Contemporary Nursing Practice
		NUR3116	Transition-to-Practice
Honours	NUR4101		Evidence-based Health Care Practice (Sem 1 & 2)
	NUR4102		Consolidated Clinical Practice (Sem 1 & 2)
	NUR4103		Applied Research Methods (Sem 1 only)
	NUR4104		Honours Project in Nursing (Sem 2 only)
	Unrestricted Elective		

Assessment

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

Assessment strategies that will be implemented for the B.Sc. (Nursing) programme will:

- Be holistic and designed to test the cognitive, psychomotor and affective domains of learning.
- Test the various levels of learning (knows, knows how, performs, does) as described in the Miller's pyramid (Miller, 1990).
- Ensure the validity and reliability of test instruments used for both formative and summative assessments e.g. integrated, scenario-based multiple-choice questions (MCQs) and extended matching items (EMIs) which test higher-order thinking skills will replace recall, rote-memory-based Multiple Choice Questions (MCQs).
- Include testing of clinical skills, log book record of clinical practice and case presentations at clinical conferences in its clinical assessment.
- Include multiple test instruments based on their utility with respect to the validity, reliability and practicality.
- Base pass/fail judgement on, whenever applicable, pre-determined criteria (i.e. criterion-based assessment).

Grading of Assessment and Cumulative Average Points (CAP)			
Grade	Grade Point	Grade	Grade Point
A+	5.0	C+	2.5
A	5.0	C	2.0
A-	4.5	D+	1.5
B+	4.0	D	1.0
B	3.5	F (Fail)	0.0

	B-	3.0		
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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.

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The School has several bursaries available to full-time undergraduate M.B.,B.S. students who are in need of financial assistance to help them though their course of study. For more information regarding these bursaries, the conditions of award and application, please visit





http://medicine.nus.edu.sg/corporate/education/medicine/adm_financial_assistance.aspx

There are several bursaries available to full-time undergraduate B.Sc (Nursing) students who are in need of financial assistance to help them through their course of study. For more information regarding these bursaries, the conditions of award and application, please visit: http://medicine.nus.edu.sg/nursing/prg_ug_scholarship.shtml

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4 Graduate Education

4.1 Research Programmes

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

4.1.1 Degrees Offered

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

Only those candidates who have fulfilled the criteria for Ph.D. will be awarded the Ph.D. degree. All other candidates will have to fulfil the criteria for the M.Sc. in order to be awarded the M.Sc. degree.

4.1.2 Degree Requirements

Admission Requirements

M.Sc. Programme

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

Ph.D. Programme

- A good Master's degree in a relevant discipline or

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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 (M.B.,B.S.) 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 of 3.5 for the Analytical section is required.

Credit Transfer and Exemptions

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

- There is no limit to the transfer of credit for relevant modules that have not been used towards another degree at NUS or elsewhere.
- For relevant modules that have been credited towards another degree elsewhere, up to 50% of the modular credits (MCs) required in the coursework component of the NUS graduate research programme into which the candidate seeks admission may be exempted.
- For relevant NUS modules that have been credited towards another degree at NUS, on a case-by-case basis and subject to approval, more than 50% of the MCs required in the coursework component of the NUS graduate research programme may be allowed credit and grade transfer.
- Only graduate modules at Level-5000 and above which are relevant to the degree programme to which the candidate seeks admission at NUS can be considered for credit transfer or exemption. In addition, only modules that have substantially the same learning objectives, content, and level of sophistication as the corresponding NUS module can be considered for credit transfer/exemption.
- Credit transfer and exemption is allowed only for modules that are taken less than five years before the date of admission.
- Applications for credit transfer or exemptions must be submitted within two weeks from the date of admission.

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 M.Sc. or a Ph.D. degree:

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

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

To be confirmed a Ph.D. candidate, a student is required to pass a Ph.D. 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 Ph.D. candidates are required to take ES5002 (Advanced Level Writing) regardless of their performance in the Diagnostic English Test. Ph.D. candidates are also 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:

M.Sc. : 6 months (one semester)

Ph.D. : 18 months (three semesters)

Residency Requires:

1. Payment of fees
2. Satisfying all curricular requirements of the programme of study
3. Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, M.Sc. and Ph.D. 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.

M.Sc. : 36 months

Ph.D. : 60 months

Continuation and Graduation requirements

Continuation

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

M.Sc. : CAP should not fall below 2.5 for two consecutive semesters or 3.0 for three consecutive semesters

Ph.D. : CAP should not fall below 3.0 for two consecutive semesters or 3.5 for three consecutive semesters

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

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

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

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

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

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

Graduation Requirements

M.Sc.

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

Ph.D.

- Pass all prescribed core and elective modules with a minimum CAP of 3.5 (B) for the prescribed modules
- Pass the Qualifying Examination
- Pass the Ph.D. 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\$3,300 per month for M.Sc. and Ph.D. candidates respectively.

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

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

4.2 Graduate Coursework Programme in Clinical Investigation

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 Ph.D. degree.

Degree Requirements

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

Curriculum Structure

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

4.3 Research Programmes in Nursing

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

Objectives:

The M.Sc. (Nursing) and Ph.D. 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.

4.3.1 Degrees Offered

The following degrees will be offered:

- Master of Science (Nursing) [M.Sc. (Nursing)]
- Doctor of Philosophy [Ph.D.]

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

The Ph.D. 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.

4.3.2 Degree Requirements

Admission Requirements

M.Sc. (Nursing) Programme

- A Bachelor's degree with Honours 1st to 2nd Class Lower; or
- Coursework Master's degree with a CAP of 3.5 or above; or
- Bachelor's degree and evidence of outcomes from a research project equivalent to 25% of one year's full-time study

Ph.D. Programme

- Obtain at least a Bachelor's degree with Honours (at least 2nd Class Upper); or
- Coursework Master's degree with a CAP of 3.5 or above.
- Candidates are also expected to have the ability to pursue research in their proposed field of advanced study.

Other Requirements

TOEFL/IELTS

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

For IELTS, the minimum score required is 6.

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

GRE

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

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

Credit Transfer and Exemptions

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

- There is no limit to the transfer of credit for relevant modules that have not been used towards another degree at NUS or elsewhere.
- For relevant modules that have been credited towards another degree elsewhere, up to 50% of the modular credits (MCs) required in the coursework component of the NUS graduate research programme into which the candidate seeks admission may be exempted.
- For relevant NUS modules that have been credited towards another degree at NUS, on a case-by-case basis and subjective to approval, more than 50% of the MCs required in the coursework component of the NUS graduate research programme may be allowed credit and grade transfer.
- Only graduate modules at Level-5000 and above which are relevant to the degree programme to which the candidate seeks admission at NUS can be considered for credit transfer or exemption. In addition, only modules that have substantially the same learning objectives, content, and level of sophistication as the corresponding NUS module can be considered for credit transfer/exemption.
- Credit transfer and exemption is allowed only for modules that are taken less than five years before the date of admission.
- Application for credit transfer or exemption must be submitted to ALCNS within two weeks from the date of admission.

Curriculum Structure and Requirements

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

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

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

M.Sc. (Nursing) : 3 core + 1 elective modules

Ph.D. : 3 core + 3 elective modules

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

To be confirmed a Ph.D. candidate, a student is required to pass a Ph.D. Qualifying Examination (QE) to be taken between 12 to 24 months from the date of admission (12 months for full-time students and 24 months for part-time students). The QE shall consist of a written comprehensive examination and an oral defence of the Ph.D. thesis proposal.

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

Candidates from Universities where the medium of undergraduate instruction is not in English are required to take ES5001B (Intermediate Listening & Speaking) regardless of their performance in the Diagnostic English Test. In addition to ES5001B (Intermediate Listening & Speaking), Ph.D. candidates are also 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:

M.Sc. (Nursing) : 6 months (one semester)

Ph.D. : 18 months (three semesters)

Residency requires:

1. Payment of fees;
2. Satisfying all curricular requirements of the programme of study; and
3. Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, M.Sc. (Nursing) and Ph.D. 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.

M.Sc. (Nursing) : 36 months (Full-time & Part-time)

Ph.D. : 60 months (Full-time), 84 months (Part-time)

Continuation and graduation requirements

Continuation

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

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

Ph.D. : CAP should not fall below 3.0 for two consecutive semesters or 3.5 for three consecutive semesters

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

For any semesters in which the student's CAP falls below the CAP required for graduation (3.0 for M.Sc. and 3.5 for Ph.D.), he/she will be issued an academic warning. A student may also be issued an academic warning or placed on probation for poor performance in the Qualifying Examination, research, or other programme requirements.

Graduation Requirements

M.Sc. (Nursing)

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

Ph.D.

- Pass three core and three elective modules (with 28 module credits)
- A CAP of at least 3.5 or above 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 Ph.D. Thesis proposal
- Satisfactory performance at the annual Ph.D Symposium (formative assessment)
- Pass the Ph.D. 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.

4.3.3 Financial Assistance and Awards

Financial support in the form of research scholarships is available for qualified candidates on full-time study. These range from S\$1,500 - S\$3,000 per month for M.Sc. and Ph.D. candidates respectively. Additional support for projects is also available.

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

4.4 Coursework and Clinical Training 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 examinations.

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

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

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

Graduate Diploma Programmes

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

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

Master of Science (Speech and Language Pathology)

The Master of Science (Speech and Language Pathology) programme which started in Jan 2007, is a two-year full-time programme with 18 compulsory modules. It is designed for graduates from any discipline who are seeking professional practice training as a speech and language pathologist.

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

Master of Science (Audiology)

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

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

4.5 Graduate Coursework Programme in Nursing

Master of Nursing Programme

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

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

The Curriculum

The MN programme aims to prepare graduate Registered Nurses to:

1. perform as Advanced Practice Nurses in various healthcare settings;
2. demonstrate advanced knowledge and skills to perform as clinical leaders in their respective speciality;
3. acquire an academic and clinical foundation for Advanced Practice Nursing in Singapore;
4. perform health and physical assessments, including ordering and interpreting diagnostic tests;
5. utilise advanced nursing skills and competencies to plan and manage patients with altered health status in collaboration and consultation with other healthcare professionals;
6. furnish/ prescribe medications within a defined formulary and evaluate therapies;
7. evaluate cost-effectiveness and outcomes of advanced practice nursing;
8. perform as clinical nursing leaders in various healthcare environments;
9. demonstrate an ability to critique, synthesise and evaluate research literature;
10. demonstrate an ability to conduct research;
11. apply ethical principles to resolve complex dilemmas encountered by Advanced Practice Nurses; and
12. apply evidence-based knowledge to improve patient outcomes.

The competencies of MN graduates reflect the SNB's competences for APN practice in Singapore.

Admission Requirements

To be eligible for the programme, applicants must:

- be a registered with the Singapore Nursing Board as a Registered Nurse;
- possess a Bachelor's degree in nursing from an accredited programme;
- have a CAP of 3.5 or equivalent (for those not graduated in NUS);

- have a minimum of 3 preceding years of speciality experience for the areas of studies; and
- have a minimum TOEFL score of 580/237/85 for the paper-based, computer-based and internet-based respectively
(for applicants whose native tongue or medium of undergraduate instruction is not English).

Interviews

All shortlisted applicants will be required to attend an interview.

Fee

Tuition fees (covering 4 semesters): S\$32,000 (inclusive of GST)

Application

Application opens from 1 March to 30 April every year. Please visit our website at http://medicine.nus.edu.sg/nursing/prg_mn_intro.shtml for more information.

Programme Structure

The 24-month Master of Nursing programme comprises of 80 modular credits (MCs). It has 4 tracks: Adult Health, Mental Health, Acute Care and Paediatrics. All students, regardless of track, will be required to complete and pass 19 modules. The table below illustrates the modules to be taken under the different tracks.

CORE CLINICAL MODULES (18MC)	NUR5101 Advanced Health Assessment (6MC) (AH, MH & AC only) NUR5102 Advanced Pathophysiology (4MC) (AH, MH & AC only) PA2106A Pharmacology I (4MC) PA2107A Pharmacology II (4MC)			
GENERIC/ THEORETICAL MODULES (32MC)	NUR5201 Foundations of Advanced Practice Nursing (4MC) NUR5202 Research Methods for Clinical Practice (2MC) NUR5203 Evidence-based Healthcare (4MC) NUR5204 Research Project (6MC) NUR5002 Statistics for Health Research (4MC) NUR5205 Patient Education and Health Promotion (4MC) NUR5206 Health Care Policy and Quality Management (4MC) NUR5207 Healthcare Ethics (4MC)			
CLINICAL MODULES (20MC)	ADULT HEALTH	MENTAL HEALTH	ACUTE CARE	PAEDIATRICS
	NUR5301 Advanced Practice Nursing I (6MC) NUR5302 Advanced Practice Nursing II (6MC) 2 Electives (8MC)	NUR5401 Advanced Psychopathy (6MC) NUR5402 Advanced Psychosocial Interventions (6MC) NUR5403 Community Mental Health (4MC) Elective (4MC)	NUR5501 Advanced Practice Nursing I (6MC) NUR 5502 Advanced Practice Nursing II (6MC) NUR5503 Advanced Practice Nursing III (4MC) Elective (4MC)	NUR5601 Advanced Health Assessment (Paediatrics) (6MC) NUR5201 Advanced Pathophysiology (Paediatrics) (6MC) NUR5603 Advanced Practice Nursing I (6MC) NUR5604 Advanced Practice Nursing II (6MC) 2 Electives (8MC)
CLINICAL PRACTICUM (10MC)	NUR5311 Clinical Practicum I (4MC) NUR5312 Clinical Practicum II (4MC) NUR5211 Consolidated Clinical Practicum (2MC)	NUR5411 Clinical Practicum I (4MC) NUR5412 Clinical Practicum II (4MC) NUR5211 Consolidated Clinical Practicum (2MC)	NUR5511 Clinical Practicum I (4MC) NUR5512 Clinical Practicum II (4MC) NUR5211 Consolidated Clinical Practicum (2MC)	NUR5611 Clinical Practicum I (4MC) NUR5612 Clinical Practicum II (4MC) NUR5211 Consolidated Clinical Practicum (2MC)

For more information, please visit the programme website: http://medicine.nus.edu.sg/nursing/prg_ngrp_intro.shtml.



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Research Programmes

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4.1 Research Programmes

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

4.1.1 Degrees Offered

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

Only those candidates who have fulfilled the criteria for Ph.D. will be awarded the Ph.D. degree. All other candidates will have to fulfil the criteria for the M.Sc. in order to be awarded the M.Sc. degree.

4.1.2 Degree Requirements

Admission Requirements

M.Sc. Programme

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

Ph.D. 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 (M.B.,B.S.) 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

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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 of 3.5 for the Analytical section is required.

Credit Transfer and Exemptions

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

- There is no limit to the transfer of credit for relevant modules that have not been used towards another degree at NUS or elsewhere.
- For relevant modules that have been credited towards another degree elsewhere, up to 50% of the modular credits (MCs) required in the coursework component of the NUS graduate research programme into which the candidate seeks admission may be exempted.
- For relevant NUS modules that have been credited towards another degree at NUS, on a case-by-case basis and subject to approval, more than 50% of the MCs required in the coursework component of the NUS graduate research programme may be allowed credit and grade transfer.
- Only graduate modules at Level-5000 and above which are relevant to the degree programme to which the candidate seeks admission at NUS can be considered for credit transfer or exemption. In addition, only modules that have substantially the same learning objectives, content, and level of sophistication as the corresponding NUS module can be considered for credit transfer/exemption.
- Credit transfer and exemption is allowed only for modules that are taken less than five years before the date of admission.
- Applications for credit transfer or exemptions must be submitted within two weeks from the date of admission.

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 M.Sc. or a Ph.D. degree:

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

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

To be confirmed a Ph.D. candidate, a student is required to pass a Ph.D. 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 Ph.D. candidates are required to take ES5002 (Advanced Level Writing) regardless of their performance in the Diagnostic English Test. Ph.D. candidates are also 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:

M.Sc. : 6 months (one semester)

Ph.D. : 18 months (three semesters)

Residency Requires:

1. Payment of fees
2. Satisfying all curricular requirements of the programme of study
3. Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, M.Sc. and Ph.D. 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.

M.Sc. : 36 months
Ph.D. : 60 months

Continuation and Graduation requirements

Continuation

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

M.Sc. : CAP should not fall below 2.5 for two consecutive semesters or 3.0 for three consecutive semesters
Ph.D. : CAP should not fall below 3.0 for two consecutive semesters or 3.5 for three consecutive semesters

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

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

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

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

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

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

Graduation Requirements

M.Sc.

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

Ph.D.

- Pass all prescribed core and elective modules with a minimum CAP of 3.5 (B) for the prescribed modules
- Pass the Qualifying Examination
- Pass the Ph.D. 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\$3,300 per month for M.Sc. and Ph.D. 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.



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

Only those candidates who have fulfilled the criteria for Ph.D. will be awarded the Ph.D. degree. All other candidates will have to fulfil the criteria for the M.Sc. in order to be awarded the M.Sc. degree.

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Degree Requirements

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Admission Requirements

M.Sc. Programme

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

Ph.D. 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 (M.B.,B.S.) 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 of 3.5 for the Analytical section is required.

Credit Transfer and Exemptions


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


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

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- Only graduate modules at Level-5000 and above which are relevant to the degree programme to which the candidate seeks admission at NUS can be considered for credit transfer or exemption. In addition, only modules that have substantially the same learning objectives, content, and level of sophistication as the corresponding NUS module can be considered for credit transfer/exemption.
- Credit transfer and exemption is allowed only for modules that are taken less than five years before the date of admission.
- Applications for credit transfer or exemptions must be submitted within two weeks from the date of admission.

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 M.Sc. or a Ph.D. degree:

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

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

To be confirmed a Ph.D. candidate, a student is required to pass a Ph.D. 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 Ph.D. candidates are required to take ES5002 (Advanced Level Writing) regardless of their performance in the Diagnostic English Test. Ph.D. candidates are also 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:

M.Sc. : 6 months (one semester)

Ph.D. : 18 months (three semesters)

Residency Requires:

1. Payment of fees
2. Satisfying all curricular requirements of the programme of study
3. Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, M.Sc. and Ph.D. 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.

M.Sc. : 36 months

Ph.D. : 60 months

Continuation and Graduation requirements

Continuation

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

M.Sc. : CAP should not fall below 2.5 for two consecutive semesters or 3.0 for three consecutive semesters

Ph.D. : CAP should not fall below 3.0 for two consecutive semesters or 3.5 for three consecutive semesters

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

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

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

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

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

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

Graduation Requirements

M.Sc.

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

Ph.D.

- Pass all prescribed core and elective modules with a minimum CAP of 3.5 (B) for the prescribed modules
- Pass the Qualifying Examination
- Pass the Ph.D. 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.



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Financial Assistance and Awards

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Financial support in the form of scholarships is available for qualified candidates. These range from S\$1,500 - S\$3,300 per month for M.Sc. and Ph.D. 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.

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Graduate Coursework Programme in Clinical Investigation

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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 Ph.D. degree.

Degree Requirements

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





Curriculum Structure

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

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4.3 Research Programmes in Nursing

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

Objectives:

The M.Sc. (Nursing) and Ph.D. 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.

4.3.1 Degrees Offered

The following degrees will be offered:

- Master of Science (Nursing) [M.Sc. (Nursing)]
- Doctor of Philosophy [Ph.D.]

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

The Ph.D. 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.

4.3.2 Degree Requirements
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M.Sc. (Nursing) Programme

- A Bachelor's degree with Honours 1st to 2nd Class Lower; or
- Coursework Master's degree with a CAP of 3.5 or above; or
- Bachelor's degree and evidence of outcomes from a research project equivalent to 25% of one year's full-time study

Ph.D. Programme

- Obtain at least a Bachelor's degree with Honours (at least 2nd Class Upper); or
- Coursework Master's degree with a CAP of 3.5 or above.
- Candidates are also expected to have the ability to pursue research in their proposed field of advanced study.

Other Requirements

TOEFL/IELTS

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

For IELTS, the minimum score required is 6.

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

GRE

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

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

Credit Transfer and Exemptions

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

- There is no limit to the transfer of credit for relevant modules that have not been used towards another degree at NUS or elsewhere.
- For relevant modules that have been credited towards another degree elsewhere, up to 50% of the modular credits (MCs) required in the coursework component of the NUS graduate research programme into which the candidate seeks admission may be exempted.
- For relevant NUS modules that have been credited towards another degree at NUS, on a case-by-case basis and subjective to approval, more than 50% of the MCs required in the coursework component of the NUS graduate research programme may be allowed credit and grade transfer.
- Only graduate modules at Level-5000 and above which are relevant to the degree programme to which the candidate seeks admission at NUS can be considered for credit transfer or exemption. In addition, only modules that have substantially the same learning objectives, content, and level of sophistication as the corresponding NUS module can be considered for credit transfer/exemption.
- Credit transfer and exemption is allowed only for modules that are taken less than five years before the date of admission.
- Application for credit transfer or exemption must be submitted to ALCNS within two weeks from the date of admission.

Curriculum Structure and Requirements

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

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

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

M.Sc. (Nursing) : 3 core + 1 elective modules

Ph.D. : 3 core + 3 elective modules

Modules taken will be at levels 5000 and 6000 and must be equivalent to at least 4 module credits. Elective modules can

be chosen from those offered by ALCNS or any School or Research Institutes/Centres affiliated with the National University of Singapore (subject to the university guidelines). These are subject to the approval of the supervisors and the Head of ALCNS.

To be confirmed a Ph.D. candidate, a student is required to pass a Ph.D. Qualifying Examination (QE) to be taken between 12 to 24 months from the date of admission (12 months for full-time students and 24 months for part-time students). The QE shall consist of a written comprehensive examination and an oral defence of the Ph.D. thesis proposal.

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

Candidates from Universities where the medium of undergraduate instruction is not in English are required to take ES5001B (Intermediate Listening & Speaking) regardless of their performance in the Diagnostic English Test. In addition to ES5001B (Intermediate Listening & Speaking), Ph.D. candidates are also 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:

M.Sc. (Nursing) : 6 months (one semester)
Ph.D. : 18 months (three semesters)

Residency requires:

1. Payment of fees;
2. Satisfying all curricular requirements of the programme of study; and
3. Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, M.Sc. (Nursing) and Ph.D. 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.

M.Sc. (Nursing) : 36 months (Full-time & Part-time)
Ph.D. : 60 months (Full-time), 84 months (Part-time)

Continuation and graduation requirements

Continuation

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

M.Sc (Nursing) : CAP should not fall below 2.5 for two consecutive semesters or 3.0 for three consecutive semesters
Ph.D. : CAP should not fall below 3.0 for two consecutive semesters or 3.5 for three consecutive semesters

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

For any semesters in which the student's CAP falls below the CAP required for graduation (3.0 for M.Sc. and 3.5 for Ph.D.), he/she will be issued an academic warning. A student may also be issued an academic warning or placed on probation for poor performance in the Qualifying Examination, research, or other programme requirements.

Graduation Requirements

M.Sc. (Nursing)

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

Ph.D.

- Pass three core and three elective modules (with 28 module credits)

- A CAP of at least 3.5 or above 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 Ph.D. Thesis proposal
- Satisfactory performance at the annual Ph.D Symposium (formative assessment)
- Pass the Ph.D. 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.

4.3.3 Financial Assistance and Awards

Financial support in the form of research scholarships is available for qualified candidates on full-time study. These range from S\$1,500 - S\$3,000 per month for M.Sc. and Ph.D. candidates respectively. Additional support for projects is also available.

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



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- Master of Science (Nursing) [M.Sc. (Nursing)]
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The M.Sc. (Nursing) degree is designed to provide research training specifically for nurses who have a Bachelor Degree without an Honours component. It will provide both stand-alone postgraduate research training as well as a pathway into the Ph.D. programme for nurses without an Honours degree.

The Ph.D. 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.

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Admission Requirements

M.Sc. (Nursing) Programme

- A Bachelor's degree with Honours 1st to 2nd Class Lower; or
- Coursework Master's degree with a CAP of 3.5 or above; or
- Bachelor's degree and evidence of outcomes from a research project equivalent to 25% of one year's full-time study

Ph.D. Programme

- Obtain at least a Bachelor's degree with Honours (at least 2nd Class Upper); or
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As the medium of instruction is English, applicants whose native tongue and medium of university undergraduate instruction is not English must submit TOEFL scores as evidence of their proficiency in the English Language. The minimum TOEFL score required is 580/237/85 for the paper-based, computer-based and internet-based tests respectively. Exemptions will be given to applicants with distinctions in the Cambridge GCE 'O' level examination English Language Paper 1119.

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Curriculum Structure and Requirements

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

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

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

M.Sc. (Nursing) : 3 core + 1 elective modules

Ph.D. : 3 core + 3 elective modules

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

To be confirmed a Ph.D. candidate, a student is required to pass a Ph.D. Qualifying Examination (QE) to be taken between 12 to 24 months from the date of admission (12 months for full-time students and 24 months for part-time students). The QE shall consist of a written comprehensive examination and an oral defence of the Ph.D. thesis proposal.

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

Candidates from Universities where the medium of undergraduate instruction is not in English are required to take ES5001B (Intermediate Listening & Speaking) regardless of their performance in the Diagnostic English Test. In addition to ES5001B (Intermediate Listening & Speaking), Ph.D. candidates are also 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:

M.Sc. (Nursing) : 6 months (one semester)

Ph.D. : 18 months (three semesters)

Residency requires:

1. Payment of fees;
2. Satisfying all curricular requirements of the programme of study; and
3. Satisfying other departmental requirements such as teaching assistance

Periods of study leave and overseas fieldwork do not count toward residency. In addition, M.Sc. (Nursing) and Ph.D.

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.

M.Sc. (Nursing) : 36 months (Full-time & Part-time)

Ph.D. : 60 months (Full-time), 84 months (Part-time)

Continuation and graduation requirements

Continuation

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

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

Ph.D. : CAP should not fall below 3.0 for two consecutive semesters or 3.5 for three consecutive semesters

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

For any semesters in which the student's CAP falls below the CAP required for graduation (3.0 for M.Sc. and 3.5 for Ph.D.), he/she will be issued an academic warning. A student may also be issued an academic warning or placed on probation for poor performance in the Qualifying Examination, research, or other programme requirements.

Graduation Requirements

M.Sc. (Nursing)

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

Ph.D.

- Pass three core and three elective modules (with 28 module credits)
- A CAP of at least 3.5 or above 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 Ph.D. Thesis proposal
- Satisfactory performance at the annual Ph.D Symposium (formative assessment)
- Pass the Ph.D. 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.



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Financial Assistance and Awards

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Financial support in the form of research scholarships is available for qualified candidates on full-time study. These range from S\$1,500 - S\$3,000 per month for M.Sc. and Ph.D. candidates respectively. Additional support for projects is also available.

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

Part III: Modules

Modules

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Coursework and Clinical Training Programmes: Division of Graduate Medical Studies (DGMS)

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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 examinations.

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

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

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

Graduate Diploma Programmes

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

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





Master of Science (Speech and Language Pathology)

The Master of Science (Speech and Language Pathology) programme which started in Jan 2007, is a two-year full-time programme with 18 compulsory modules. It is designed for graduates from any discipline who are seeking professional practice training as a speech and language pathologist.

Part III: Modules

Modules

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

Master of Science (Audiology)

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

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

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
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Graduate Coursework Programme in Nursing

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Master of Nursing Programme

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

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

The Curriculum

The MN programme aims to prepare graduate Registered Nurses to:

1. perform as Advanced Practice Nurses in various healthcare settings;
2. demonstrate advanced knowledge and skills to perform as clinical leaders in their respective speciality;
3. acquire an academic and clinical foundation for Advanced Practice Nursing in Singapore;
4. perform health and physical assessments, including ordering and interpreting diagnostic tests;
5. utilise advanced nursing skills and competencies to plan and manage patients with altered health status in collaboration and consultation with other healthcare professionals;
6. furnish/ prescribe medications within a defined formulary and evaluate therapies;
7. evaluate cost-effectiveness and outcomes of advanced practice nursing;
8. perform as clinical nursing leaders in various healthcare environments;
9. demonstrate an ability to critique, synthesise and evaluate research literature;
10. demonstrate an ability to conduct research;
11. apply ethical principles to resolve complex dilemmas encountered by Advanced Practice Nurses; and
12. apply evidence-based knowledge to improve patient outcomes.

The competencies of MN graduates reflect the SNB's competences for APN practice in Singapore.

Admission Requirements

To be eligible for the programme, applicants must:





- be a registered with the Singapore Nursing Board as a Registered Nurse;
 - possess a Bachelor's degree in nursing from an accredited programme;
 - have a CAP of 3.5 or equivalent (for those not graduated in NUS);
 - have a minimum of 3 preceding years of speciality experience for the areas of studies; and
 - have a minimum TOEFL score of 580/237/85 for the paper-based, computer-based and internet-based respectively
- (for applicants whose native tongue or medium of undergraduate instruction is not English).

Interviews

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All shortlisted applicants will be required to attend an interview.

Fee

Tuition fees (covering 4 semesters): S\$32,000 (inclusive of GST)

Application

Application opens from 1 March to 30 April every year. Please visit our website at http://medicine.nus.edu.sg/nursing/prg_mn_intro.shtml for more information.

Programme Structure

The 24-month Master of Nursing programme comprises of 80 modular credits (MCs). It has 4 tracks: Adult Health, Mental Health, Acute Care and Paediatrics. All students, regardless of track, will be required to complete and pass 19 modules. The table below illustrates the modules to be taken under the different tracks.

CORE CLINICAL MODULES (18MC)	NUR5101 Advanced Health Assessment (6MC) (AH, MH & AC only) NUR5102 Advanced Pathophysiology (4MC) (AH, MH & AC only) PA2106A Pharmacology I (4MC) PA2107A Pharmacology II (4MC)			
GENERIC/ THEORETICAL MODULES (32MC)	NUR5201 Foundations of Advanced Practice Nursing (4MC) NUR5202 Research Methods for Clinical Practice (2MC) NUR5203 Evidence-based Healthcare (4MC) NUR5204 Research Project (6MC) NUR5002 Statistics for Health Research (4MC) NUR5205 Patient Education and Health Promotion (4MC) NUR5206 Health Care Policy and Quality Management (4MC) NUR5207 Healthcare Ethics (4MC)			
CLINICAL MODULES (20MC)	ADULT HEALTH	MENTAL HEALTH	ACUTE CARE	PAEDIATRICS
	NUR5301 Advanced Practice Nursing I (6MC) NUR5302 Advanced Practice Nursing II (6MC) 2 Electives (8MC)	NUR5401 Advanced Psychopathy (6MC) NUR5402 Advanced Psychosocial Interventions (6MC) NUR5403 Community Mental Health (4MC) Elective (4MC)	NUR5501 Advanced Practice Nursing I (6MC) NUR 5502 Advanced Practice Nursing II (6MC) NUR5503 Advanced Practice Nursing III (4MC) Elective (4MC)	NUR5601 Advanced Health Assessment (Paediatrics) (6MC) NUR5201 Advanced Pathophysiology (Paediatrics) (6MC) NUR5603 Advanced Practice Nursing I (6MC) NUR5604 Advanced Practice Nursing II (6MC) 2 Electives (8MC)
CLINICAL PRACTICUM (10MC)	NUR5311 Clinical Practicum I (4MC) NUR5312 Clinical Practicum II (4MC) NUR5211 Consolidated Clinical Practicum (2MC)	NUR5411 Clinical Practicum I (4MC) NUR5412 Clinical Practicum II (4MC) NUR5211 Consolidated Clinical Practicum (2MC)	NUR5511 Clinical Practicum I (4MC) NUR5512 Clinical Practicum II (4MC) NUR5211 Consolidated Clinical Practicum (2MC)	NUR5611 Clinical Practicum I (4MC) NUR5612 Clinical Practicum II (4MC) NUR5211 Consolidated Clinical Practicum (2MC)

For more information, please visit the programme website: http://medicine.nus.edu.sg/nursing/prg_ngrp_intro.shtml.

