GRADUATE PROGRAMMES
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Are You Ready for Graduate Studies in NUS Science?

The Faculty offers a range of graduate programmes. Doctoral degree programmes are primarily research-based. They equip students with the skills to advance knowledge. Master’s degree programmes are primarily designed to prepare students for the practice of a profession (typically Master’s by coursework) or to master a subject area prior to doctoral training (typically Master’s by research).

These programmes offer excellent opportunities for students to further develop their potential as intellectual leaders for diverse career paths. In 2017, there were more than 1300 graduate students studying Science at the National University of Singapore (NUS).

Why Science@NUS?

When you choose to study Science at NUS, your horizons will be widened, your range of competencies extended and your opportunities multiplied.

Established Track Record

The Faculty’s rigorous, broad-based curriculum and impactful research have helped shape Singapore’s scientific landscape in education and research and contributed significantly to NUS being recognised as one of the top universities in the world for science education.

Source: QS World University Rankings by Subject 2018
World-Class Faculty
Our dynamic and award-winning professors ensure that our research and educational programmes are continually reviewed to stay relevant to future needs.

International Outlook
NUS has partnerships with over 300 universities in 50 countries. We provide diverse learning environments for you to become more culturally aware, resilient, adaptable and enterprising.

Bright Career Prospects
We train you in specialised domain knowledge, as well as critical thinking, problem-solving and interpersonal skills. These crucial life skills give our graduates an edge in career mobility.

Global Alumni Networks
By joining the Science family, you can build your network and enhance your professional development by becoming part of a wide community of influential alumni.
Graduate Studies
by Research

The NUS Faculty of Science offers graduate students an innovative curriculum covering fundamental and applied science disciplines that are at the forefront of scientific knowledge, a cross-disciplinary approach to research and opportunities to work in our state-of-the-art research facilities. Our research programmes provide training in specialised topics via independent investigations, study and experimental projects and they culminate in theses on the research undertaken.

The Faculty is home to faculty members from many countries, many of them renowned internationally for research excellence in many fields. They have also built research collaborations across borders and disciplines.

Some of these collaborations provide opportunities for students to work towards a Ph.D. degree conferred jointly by NUS and an overseas partner university. Students also have valuable opportunities to work on interdisciplinary collaborations in an international research context. These projects are undertaken with leading research institutes, and for joint Ph.D. programmes with our partner universities, including King’s College London, the Hebrew University of Jerusalem and the Indian Institutes of Technology.

The Faculty offers Ph.D. and M.Sc. research programmes in the following:

- Biological Sciences
- Chemistry (including the Food Science & Technology Programme)
- Mathematics
- Pharmacy
- Physics
- Statistics & Applied Probability

Photo credits: Respective universities
Students must satisfy the following conditions, in order to graduate:

Ph.D.
- Pass a prescribed list of modules
- Obtain a minimum Cumulative Average Point of 3.5 (out of 5.0)
- Pass Ph.D. Qualifying Examination within the first 24 months upon admission
- Complete a thesis and oral defense to the satisfaction of the examination panel
- Complete the above requirements within five years (maximum candidature)

M.Sc.
- Pass a prescribed list of modules
- Obtain a minimum Cumulative Average Point of 3.0 (out of 5.0)
- Complete a thesis to the satisfaction of the examination panel
- Complete the above requirements within three years (maximum candidature)

Scholarships, Fellowships and Awards

NUS has a wide range of scholarships for graduate students who demonstrate academic excellence. The majority of current full-time Ph.D. students receive financial support in the form of an NUS Research Scholarship or other awards. The scholarship, depending on its type, generally provides a monthly stipend and tuition fee subsidy for four years.

"The scholarship enables me to pursue my passion in research while freeing my family from financial worries."

- Kamonlawan CHOMCHOPBUN
Pharmacy graduate student in Ph.D. programme
Lee Kong Chian Graduate Scholarship recipient

NUS Research Scholarships
Qualified candidates with at least an Honours (Distinction) degree or equivalent will receive:
- Tuition fees
- A monthly stipend
  - Singapore Citizens - $3,700
  - Singapore Permanent Residents - $3,200
  - International Students - $2,000
- Eligible for an additional stipend of up to $5,000 per month upon passing the Ph.D. qualifying examination, which is normally held 12 to 18 months after registration of candidature

President's Graduate Fellowships
This Fellowship is awarded to outstanding graduate students who show exceptional promise or accomplishment in research and covers:
- Tuition fees
- A monthly stipend
  - Singapore Citizens - $3,500
  - Singapore Permanent Residents - $3,200
  - International Students - $3,000
- A one-off air travel allowance for 1 one-way ticket (only for new, incoming International Students)
- A one-off settling-in allowance of $1,000 (only for new, incoming International Students)

Lee Kong Chian Graduate Scholarships
This scholarship is awarded to outstanding graduate students who demonstrate academic excellence, leadership and a commitment to community service and covers:
- Tuition and miscellaneous student fees (International Students)
- A monthly stipend of $3,500
- An annual book allowance of $500
- A one-off air travel allowance of $3,000 (only for new, incoming International Students)
- A one-off laptop allowance of $1,500

Admission Criteria

- A good Bachelor’s Degree (at least an Honours (Distinction)) and/or Master’s Degree in the relevant disciplines
- Applicants from NUS, NTU or SMU are not required to submit TOEFL/IELTS and GRE scores. Only international applicants need to include them with their application

To apply online, go to https://inetapps.nus.edu.sg/GDA2/Home.aspx

Application closing date
Applications are open all year round. Applications received after the closing date will be considered for the next relevant intake. The application fee is $50.

Intake
- Semester 1 (August)
- Semester 2 (January)

Closing date
- 15 November of the previous year
- 15 May of the previous year
The NUS Faculty of Science is recognised as one of the leading institutions for a value-added education that prepares our graduates for future challenges. Our coursework programmes are designed to meet the needs of working professionals who wish to advance their knowledge and enhance their career mobility in their chosen fields of specialisation.

The Faculty offers M.Sc. programmes in the following:

- Applied Physics
- Chemistry
- Industrial Chemistry (Joint programme with Technical University of Munich)
- Mathematics
- Pharmaceutical Sciences & Technology
- Physics
- Quantitative Finance
- Science Communication (Joint programme with Australian National University)
- Doctor of Pharmacy (Pharm.D.) (For pharmacists with relevant working experience)
- Chemistry for Energy and Environment
- Food Science and Human Nutrition

Master’s degrees are awarded once students have passed the relevant examinations in a prescribed number of modules. Students may also undertake a project in lieu of a certain number of modules.

Students may enroll on a full-time or part-time basis. International students not residing in Singapore are only eligible for admission to the full-time Master of Science programmes.

This scholarship is awarded to new, incoming students from the Association of South East Asian Nations (ASEAN)* and only for Ministry of Education (MOE)-subsidised, single-degree, full-time coursework graduate degrees. Applicants must have an excellent academic record and a minimum two years of relevant working experience in their home countries. The scholarship covers:

- Tuition and miscellaneous student fees
- A monthly stipend of S$1,350
- A book allowance of S$500
- A two-way air travel allowance capped at S$500 per trip

*ASEAN comprises the 10 nations of South East Asia
Admission Criteria

- A good Bachelor’s degree or its equivalent from a good university and other stipulated requirements for each programme
- TOEFL/IELTS scores are expected for international students whose native tongue or medium of undergraduate instruction is not English

To Apply

To apply online, go to https://inetapps.nus.edu.sg/GDA2/Home.aspx

Application Fees

- M.Sc. in Pharmaceutical Sciences & Technology - S$100
- Doctor of Pharmacy (Pharm.D.) - S$100
- All other coursework programmes - S$50

Application closing date

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<tr>
<td>January</td>
<td>15 September</td>
<td>Master of Science (Mathematics)</td>
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<td>Master of Science (Physics)</td>
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<td>Master of Science (Applied Physics)</td>
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<td>Master of Science (Chemistry)</td>
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<td>Master of Science (Pharmaceutical Sciences &amp; Technology)</td>
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<td>Master of Science (Science Communication)</td>
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<td>August</td>
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<td>Master of Science (Quantitative Finance)</td>
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<td>15 March</td>
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<td>Master of Science (Food Science and Human Nutrition)</td>
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The department offers M.Sc. and Ph.D. programmes in Biological Sciences by Research. Its graduate programme attracts the best students from nearly 20 countries. The department is renowned in biodiversity and ecology research, contributing to bio-heritage conservation in Singapore and the region. Its expertise in cell, molecular and developmental biology addresses challenging biomedical issues and improves food production and security. Its biophysical science research presents computational and bioimaging perspectives to study the structure and mechanics of biological systems.

Graduate students have a choice of projects in diverse areas such as tropical and urban ecology and biodiversity, microbial ecology, molecular cell biology and developmental biology of plants and fish, structural biology, systems biology, computational biology and bioinformatics, as well as new programmes in mechanobiology and bioimaging sciences.

The NUS Chemistry curriculum provides a strong foundation in the major sub-disciplines, namely analytical, biological, inorganic, materials, organic, physical and theoretical, and computational chemistry.

The M.Sc. by Coursework programme lays the foundation in chemistry for senior positions in the chemistry industry as well as for advanced degree programmes. Students are equipped with skills and advanced knowledge in Chemical Science for leading roles as scientists, managers and entrepreneurs in Chemistry R&D and related industries.

M.Sc. in Chemistry for Energy and Environment provides students broad knowledge of the latest energy and environmental technologies, regulatory policies and risk assessments to meet Singapore’s shift towards more sustainable energy sources. Students will also gain a deep understanding of modern materials design and synthesis strategies, advanced characterisation and analytical techniques, and the study of chemical structures and materials properties. Students will receive hands-on practical R&D skills training in synthesis and characterisation, fabrication and performance testing, information and literature retrieval, as well as critical interpretation and analysis.

The joint M.Sc. in Industrial Chemistry with the Technical University of Munich (TUM) aims to groom specialists in specific technology areas, namely engineers for the pharmaceutical, as well as the fine and specialty chemical industries.

The M.Sc. and Ph.D. research programmes give students the opportunity to conduct in-depth research into areas including materials chemistry, which enable the development of novel materials and devices with new functionalities. By understanding chemical structures and reaction mechanisms, researchers develop new catalysts and transformative chemical processes to reduce industrial use of environmentally unfriendly compounds. Their knowledge of chemical interactions at the molecular level can be applied in the medical domain to develop more effective therapeutic agents.
Food Science and Technology

Programme

NUS’ internationally accredited Food Science and Technology programme includes the study of basic sciences such as chemistry, biochemistry, microbiology, mathematics and engineering and how these are applied to food systems. The programme also examines the relationships of food to man in terms of nutrition, health and safety, food acceptability and consumer protection.

The M.Sc. by Research and Ph.D. programmes provide students opportunities to conduct cutting-edge research in the diverse fields of food science, technology and nutrition, including flavour and fermentation, food bioactive molecules, food processing and engineering, food microbiology and safety, functional food, molecular nutrition and nutrigenomics. Students will gain knowledge and skills directly relevant to the food industry and have opportunities to work on projects linked to food-related companies.

Research areas

M.Sc. in Food Science and Human Nutrition by Coursework covers advanced topics comprehensively including: Food Bioscience (Microbiology and Safety, Fermentation); Evidence-based Functional Foods; Human Nutrition; Modern Analytical Science; and Modern Food Processing Technology.

Provision is available for Graduate Diploma and Graduate Certificate.

www.fst.nus.edu.sg Email: food@nus.edu.sg

Department of Mathematics

NUS’ Department of Mathematics offers a diverse graduate studies programme in fundamental and applied mathematics. The department’s research supports the on-going theoretical development of the mathematical sciences, and also promotes the interdisciplinary applications of mathematics in science, engineering and other fields.

The M.Sc. by Coursework programme provides advanced training in mathematics and enables Honours or Bachelor’s degree students to enhance their professional skills in advanced mathematics in general and/or in specialised areas of applied mathematics.

Graduate students will have the opportunity to work with prominent researchers in major research themes such as Dynamical Systems, Geometry and Topology, Mathematical Logic and Theoretical Computer Science, Representation Theory and Automorphic Forms, Imaging and Vision Science, Mathematical Finance and Mathematical Economics, Numerical Analysis and Scientific Computing, and Optimisation.

The department also offers the M.Sc. in Quantitative Finance programme for students with a strong background in mathematical sciences who wish to enhance their professional skills and qualifications in quantitative finance at the postgraduate level. The programme is offered by the department with the cooperation of the Department of Economics and the Department of Statistics and Applied Probability.

Research areas

Mathematics

ww1.math.nus.edu.sg Email: askmathpg@nus.edu.sg

15

16
NUS’ Department of Pharmacy is the sole provider of university-level pharmacy education in Singapore. Its postgraduate programmes are designed to meet the growing demand for advanced generalist and specialist pharmacists. This raises healthcare standards and addresses the increased complexity of acute and chronic diseases in Singapore.

The programmes by research lead to the M.Sc. by Research or a Ph.D. degree, and equip students to work in great depth at the frontiers of knowledge creation. This includes the discovery of new medicinal compounds, the development of new medical treatments and opportunities to collaborate with industry partners to advance research in pharmaceutical technology.

The programmes by coursework are designed for professional development and lead to an M.Sc. (Pharmaceutical Sciences and Technology) or a Doctor of Pharmacy (Pharm.D.) degree. The M.Sc. (Pharmaceutical Sciences and Technology) programme is designed for candidates who are working in, or aspiring to enter the pharmaceutical and biomedical industry. It focuses on the science of drugs (chemicals, biologicals); the science of formulating drugs and their effects on the body (pharmaceutical sciences); and the science of health and diseases (biomedical sciences).

The Doctor of Pharmacy (Pharm. D.) programme prepares advanced generalist and specialist pharmacists to provide holistic care for patients, from diagnosis and treatment to post-discharge follow-up. The curriculum emphasises patient-focused care to develop practitioners with the knowledge and skills for personalised pharmaceutical care.

Research areas

Novel Drug Design and Discovery, Biomarkers and Disease Targets
Innovative Pharmaceutical Product Design, Development and Manufacture
Quality Assurance, Compliance, Regulatory Science and Pharmacovigilance of Health Products
Preclinical and Clinical Pharmacokinetics, Pharmacogenomics/Genetics
Clinical Pharmacy, Pharmacy Practice, Medication Management, Patient Compliance and Outcomes

NUS’ Department of Physics provides a solid foundation in core areas like Atomic and Nuclear Physics, Electromagnetism, Nanophysics, Quantum Mechanics, Relativity and Condensed Matter Physics. Physicists explore the fundamental nature of reality through theoretical, computational and experimental means. Physics is also the basis for many other sciences, including oceanography, seismology and astronomy.

The M.Sc. in Physics by Coursework provides advanced training in the fundamental aspects of physics, while the M.Sc. in Applied Physics by Coursework provides advanced training in applied physics, especially in semiconductor manufacturing, photonics and biophysics.
The Joint M.Sc. in Science Communication was introduced by the Australian National University (ANU) and NUS in 2009. Combining the competencies of both universities, the programme is intended for science teachers in schools and junior colleges in Singapore, as well as practitioners in science-related areas of education, policy-making and journalism. The programme equips students with skills to be competent, confident and effective communicators of science and technology to the general public.

Course Structure

The course can be taken full-time over one year or part-time over two years with a maximum candidature of three years for full-time students and five years for part-time students. All students can progress at their own pace and choose modules that best suit their work schedule.

Full-time students may spend one semester (January - June) at ANU and one semester (July - November) at NUS.

Part-time students will complete the entire programme at NUS. They will read ANU modules via e-learning or attend week-long intensive modules at ANU campus.

Modules

Joint Master of Science in Science Communication

NUS' Department of Statistics and Applied Probability is the only university-level statistics department in Singapore. The department offers training and research programmes to develop and apply innovative statistical methods to problems of economics, finance, insurance, marketing research, engineering, human health and disease etc.

The programme by Coursework equips students with practical knowledge of statistical principles required by practicing statisticians.

The programme by Research provides in-depth knowledge of statistics and research training to students who intend to pursue Statistics-related careers in the industry or academia. The Ph.D. programme grooms scholars who can undertake original and innovative research in theory, methods or applications.

Research areas

Bayesian Inference
Environmental Statistics
Functional Data Analysis
Empirical Likelihood Method
Graphical Model
Longitudinal Data Analysis
Hidden Markov Chains
Random Matrix
Sequential Analysis
Statistical Process Control
Stein's Method
Statistical Genetics
Statistical Finance
Survival Analysis
Time Series Analysis
Semiparametric Regression

NUS' Department of Statistics and Applied Probability offers comprehensive graduate programmes that are designed to develop and apply innovative statistical methods to problems in economics, finance, insurance, marketing research, engineering, human health and disease. The department's graduate programmes cover research topics in methodological and applied areas. The methodological research areas include linear and generalised linear models, longitudinal data and time series models, categorical data models, nonparametric methods, clustering analysis, classification and regression based on recursive partitioning, functional modelling involving high dimensional data structures, data visualisation techniques, survival analysis, stochastic modelling, Bayesian methods, missing data, computationally intensive statistical techniques, Monte Carlo Markov Chain, spatial-temporal models and bioinformatics. The applied research areas include quality control in engineering, marketing research, finance, economics and survey methodology.

www.statistics.nus.edu.sg
Email: stabox1@nus.edu.sg
Facts & Figures

Graduate Programmes

Graduating Class of 2017

Graduate Coursework Programmes

Courses
- Master of Science (Physics)
- Master of Science (Applied Physics)
- Master of Science (Science Communication)
- Master of Science (Pharmaceutical Sciences and Technology)
- Master of Science (Mathematics)
- Master of Science (Industrial Chemistry)
- Master of Science (Chemistry)
- Master of Science (Quantitative Finance)
- Master of Science (Statistics)
- Doctor of Pharmacy

No. of Graduates
- M.Sc./ Pharm.D. Programmes: 18
- Ph.D. Programmes: 6
- Joint Ph.D. Programmes: 5
- Joint M.Sc. Programmes: 2

Graduate Research Programmes

No. of Graduates
- Biological Sciences: M.Sc.: 51, Ph.D.: 44
- Mathematics: M.Sc.: 12, Ph.D.: 2
- Pharmacy: M.Sc.: 25, Ph.D.: 6
- Statistics & Applied Probability: M.Sc.: 19, Ph.D.: 8
- Others: M.Sc.: 3, Ph.D.: 6

Postgraduate Students: 1351

The figures are updated based on Academic Year 2016/2017
Dr TOH Tai Chong
Ph.D. graduate, Biological Sciences

The Department of Biological Sciences played an influential role in developing me into an independent researcher and educator. As graduate students, we were presented with numerous opportunities to assist with undergraduate teaching and to mentor other students. The curriculum equipped us with the necessary knowledge and skills for application to our research projects. Everyone - from faculty members to the administrative staff - made a huge impact on my post-graduate journey in NUS.

ZOU Min
M.Sc. in Quantitative Finance graduate

My course equipped me with the skills to solve many real-life problems in derivative modelling. I have also advanced in my career, from risk manager, to front-office quantitative analyst, commodity structurer and strategist.

Dr Christina TAN Jiun Yu
Pharm.D. graduate

The broad-based exposure to clinical pharmacy practice in different institutions and clinical areas equipped me with soft skills and a structured approach to patient care. Extensive clinical work increased my confidence in developing pharmacotherapy plans and monitoring complex patient cases.

Alan TEO Kay Liang
M.Sc. graduate, Chemistry

The M.Sc. Programme in Chemistry by Coursework was the course of my choice as it not only provided me an avenue to gain valuable research experience, it also allowed me to deepen my knowledge of Chemistry. Its broad-based curriculum ensures that graduates have the flexibility to apply their knowledge across all branches of Chemistry. This programme is highly relevant and has provided me with the professional and domain knowledge needed for teaching.

GONG Lili
Ph.D. student, Physics

As a Ph.D. student, I work with materials to discover interesting properties or to improve the performance of a certain material. Research in science is inspiring as we are studying and working with the best and brightest people in an open and friendly atmosphere. We can also operate various instruments in state-of-the-art facilities covering a wide range of research fields, which improves our professional skills.

Dushan WADDUWAGE
Ph.D. student, Biological Sciences

Without a life sciences background, my training as a doctoral student in NUS’ Department of Biological Sciences was a challenging academic endeavour. I was fortunate as the department provides an ideal environment for a student to bring expertise from a different field and to be able to innovatively apply knowledge to solve problems in biology. I believe I redefined myself as an interdisciplinary scientist during my time at NUS.

PHAM Thi Kim Cuc
Ph.D. student, Statistics

FoS has many talented professors from all over the world. I’m lucky to receive a scholarship to study under the very rigorous and intellectually challenging Graduate programme.

Craig FRASER
Ph.D student, Chemistry

Coming to study at NUS was a great opportunity. I got to explore a new city and culture and I joined one of the world’s best universities. I knew this would set me in good stead for my future career. I have met many wonderful people here and built friendships which will last a lifetime.
**Application Timeline**

**August Cohort**

**Research Application**
- **16 May**: Application opens
- **15 November**: Application closes
- **December - March**: Evaluation of application by selection committees
  - Shortlisted candidates invited for admission interviews
- **April - May**: Admission offers to successful candidates
- **May**: Application opens for M.Sc. (QF)

**Coursework Application**
- **31 January**: Application closes for M.Sc. (QF) August intake
- **March - April**: Admission offers to successful candidates
- **April**: Application for hostels, student passes and completion of medical examination
- **May**: Registration commences
- **August**: Start of school term

**January Cohort**

**Research Application**
- **16 November**: Application opens
- **15 May**: Application closes
- **June**: Application opens for all other coursework programmes
- **September - October**: Admission offers to successful candidates

**Coursework Application**
- **January**: Application opens
- **May**: Registration commences
- **December**: Application for hostels, student passes and completion of medical examination
- **January**: Start of school term
- **January**: Start of school term
Faculty of Science

Dean’s Office, Faculty of Science
NUS, S16, Level 5, 6 Science Drive 2, Singapore 117546

Webpage: http://www.science.nus.edu.sg/graduate-studies

Graduate Studies by Coursework

- Master of Science (Chemistry)
- Master of Science (Chemistry for Energy and Environment)
- Master of Science (Applied Physics)
- Master of Science (Physics)
- Master of Science (Mathematics)
- Master of Science (Quantitative Finance)
- Master of Science (Statistics)
- Master of Science (Pharmaceutical Sciences and Technology)
- Master of Science (Food Science and Human Nutrition)
- Master of Science (Industrial Chemistry) - Joint programme with Technical University of Munich
- Master of Science (Science Communication) - Joint programme with Australian National University
- Doctor of Pharmacy

Graduate Studies by Research

- Master of Science
  - Biological Sciences
  - Chemistry
  - Mathematics
  - Pharmacy
  - Physics
  - Statistics & Applied Probability
- Doctor of Philosophy
  - Biological Sciences
  - Chemistry
  - Mathematics
  - Pharmacy
  - Physics
  - Statistics & Applied Probability
- NUS-IIT Joint Doctor of Philosophy
  - (with either IIT Bombay / IIT Madras / IIT Kanpur)
- NUS-King’s College London Joint Doctor of Philosophy
- NUS-Hebrew University of Jerusalem Joint Doctor of Philosophy

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