



THE BEST
CHOOSE **NTU**

INTERNATIONAL
UNDERGRADUATE >
PROSPECTUS 2012/13

Welcome to Nanyang Technological University!

You are at the threshold of what may well be the most critical and formative stage of your life. A good university education will shape your intellect and open up new vistas. More than just imparting knowledge, it will teach you how to learn.

At NTU, we believe in a holistic approach to education that allows you to develop a depth of knowledge in your chosen discipline, a breadth of knowledge beyond that, and the understanding to apply this knowledge to real-life situations. You will find flexibility in packaging your course according to your interests and strengths, and how you want to pursue them.

Research and education go hand in hand. NTU's distinguished faculty are as much into knowledge creation as they are into knowledge transfer. You will get a head start in doing research, under the guidance of top-notch mentors, and through

partnerships with prestigious institutions of learning around the world.

How well will we prepare you for your career? Last year, all NTU students received a job offer within four months of graduation. Our MBA students from the highly-ranked Nanyang Business School were also found to be commanding the highest salaries amongst all Singapore MBA graduates, three years after getting their degrees. To nurture creative and entrepreneurial leaders through a broad education is NTU's mission, no less.

We welcome you to consider joining us, in a journey of discovery in our international community.

A Message from Professor Bertil Andersson

President



A Message from Dr Lalit Goel

Professor & Director of Admissions



A very warm welcome from the Nanyang Technological University!

We are delighted that you are considering joining us in charting the frontiers of knowledge.

NTU is the leading science and technological university in Singapore, and one of the fastest-growing research universities in the world. I would like to give you my personal assurance that at our university, your journey to excellence will not be made alone. You will be guided along the way by our 3,300-strong teaching and research staff. Hailing from more than 90 countries, they bring with them dynamic international perspectives and years of solid industry experience that will prove invaluable to you.


At NTU, you will grow as a unique individual in our community of students, in the company of 33,000 undergraduate and postgraduate students from all over the world. With hostel activities held all year round, you will have many opportunities to

forge new bonds. These close ties will extend beyond your university days, well into the future.

In anticipation of growing demand for exciting new programmes, we are constantly expanding our educational and research capabilities with the establishment of new schools, programmes and initiatives, such as the medical degree programme with Imperial College London. The Lee Kong Chian School of Medicine of NTU, which will offer undergraduate degrees in medicine, will admit its first intake of students in 2013.

I would like to encourage you to visit our admissions website and discover for yourself the full range of undergraduate programmes we offer. You will also find useful links to essential information on admission application procedures, scholarships, financial aid, accommodation, and much more.

We look forward to having you at NTU, and in paving the way for you to advance in your educational journey.



School of Chemical and Biomedical Engineering



Comprising the Division of Chemical and Biomolecular Engineering and the Division of Bioengineering, the School of Chemical and Biomedical Engineering (SCBE) is geared towards the training of engineers according to the demands of both established and emergent fields in the life and chemical sciences.

Housed in two buildings with a total floor space of 30,000 square meters retrofitted with modern infrastructure, state-of-the-art research and teaching facilities, the School is the ideal environment for learning. Through well-designed programmes run by a team of dedicated faculty and non-teaching staff, SCBE will prime students to confront both the demands of the working world and the technological challenges of the future.

Programmes Offered

- **Bachelor of Engineering in Chemical & Biomolecular Engineering**

This programme amalgamates principles of chemical engineering and life sciences (biology, biochemistry and genetics) to facilitate the development of safe, profitable and environment-friendly processes for the synthesis and manufacture of products from chemical/biological raw materials.

- **Bachelor of Engineering in Bioengineering**

Combining the principles and latest in biological discovery with advanced engineering methods in electronics, materials, mechanics, biocomputing and informatics, students are trained to be world-class engineers for the biomedical and biotechnology industries, with employment opportunities in healthcare and clinical services.

- **Double Degree in Bachelor of Engineering (Chemical & Biomolecular Engineering/Bioengineering) & Bachelor of Arts (Economics)**

This five-year programme offered by SCBE and the School of Humanities and Social Sciences aims to equip students with complementing knowledge in both their chosen engineering field as well as the business applications of their specialisation.

The technical and analytical skills in combination with both business knowledge and understanding of economic principles will render graduates exceedingly competitive, geared towards a leadership role in engineering.

Unique Features


Students will have the opportunity to undergo multidisciplinary training in emergent fields relevant to their specialisation. Along with a firm grounding in engineering principles and a thorough understanding of the fundamentals of the biomedical and chemical sciences, the curriculum imparts good communication and problem-solving skills, which will stand students in good stead against the challenges of their future careers.

Career Prospects

Chemical and Biomolecular engineers obtain training in diverse areas, allowing for engagement at various industries in a variety of positions, most notably within the chemical and pharmaceutical sectors. Graduates can expect to meet demand from both traditional and emergent engineering fields, such as food/flavours/fragrances, petrochemicals, biopharmaceuticals and nanotechnology.

The booming biomedical engineering and sciences sectors are slated to be key engines of Singapore's future growth. Bioengineers will find attractive opportunities in industries, research institutes, hospitals and organisations that deal with biomedical instrumentation, medical devices, biomaterials and drug research.

Alternatively, they may continue their study in medical schools or top PhD programmes around the world.



School of Computer Engineering



Building on over 20 years of experience, the School of Computer Engineering (SCE) boasts quality programmes that are tailored to address the needs of tomorrow's global economy. Designed to equip graduates with the relevant knowledge and tools required across various specialised industries, SCE's programmes are complemented with state-of-the-art facilities, vast learning opportunities, and mentorship by some of the most outstanding faculty in the fields of Computer Engineering and Computer Science.

At SCE, lessons go beyond textbooks and classrooms. As an aid to retention and a means to develop vital practical skills, students will receive critical hands-on experience through project-based learning, carefully selected industrial attachments and overseas exchange programmes.

Programmes Offered

- Bachelor of Engineering in Computer Engineering**
 Students will gain a broad knowledge on the analysis, design and engineering of computing system which includes customised, dedicated and embedded systems as well as mobile devices. Students will also be exposed to programming, digital circuits and systems, microprocessors, electronics, sensors, interfacing techniques as well as software and firmware design. The combination of a sound knowledge base and practical skills will stand graduates in good stead for a career in system, hardware, software as well as other Infocom aspects of industry and commerce.
- Bachelor of Engineering in Computer Science**
 The Computer Science curriculum trains undergraduates in the analysis, design and engineering of reliable, practical and maintainable large software systems spanning the different industries such as manufacturing, production, engineering, business, banking and finances. They will also be exposed to disciplines such as the design of efficient algorithms, data structures, language paradigms, Human-Computer Interaction, graphics and visualisation. The solid fundamentals and practical training will give graduates a head-start in the software, consultancy, services and other IT-related sectors.
- Double Degree in Bachelor of Engineering (Computer Engineering/Computer Science) & Bachelor of Business (Information Technology)**
 This hybrid curriculum has been specially designed to integrate both computer engineering/computer science and business elements, allowing graduates to bridge the gaps between the two disciplines. In this four-year double degree programme from SCE and the Nanyang Business School, students will be trained in the fundamentals and the combined application of technical computing/engineering and business practice.
- Double Degree in Bachelor of Engineering (Computer Engineering/Computer Science) & Bachelor of Arts (Economics)**
 This five-year programme offered by SCE and the School of Humanities and Social Sciences will furnish students

with an appreciation of both engineering and economic environment, effectively increasing their prospects by two and a half times that of peers with degrees in single disciplines. In today's competitive business landscape, graduates armed with two honours degrees will benefit from the advantage of being relevant to jobs in either specialisation and, will also be naturally qualified for roles that require both specialisations.

Unique Features

ELITE


Distinct to SCE, students will be able to participate in the ELITE (Enhanced Learning in Infocomm Technology) Programme. Together with IDA and its industry partners, this programme seeks to provide undergraduates the opportunity to sharpen their skills through a variety of activities that complement a classroom-based learning experience, including industrial mentorship and enrolment in IDA approved certification courses.

IDA's National Infocomm Scholarship

Students admitted into SCE are eligible to apply for IDA's National Infocomm Scholarship. The National Infocomm Scholarship is sponsored by Infocomm companies such as IBM, Microsoft, Intel, Oracle, DBS, SingTel and StarHub. You can look forward to internships with your sponsoring company, and the opportunity to work in the company when you graduate. International students may apply but are required to become a Singapore Permanent Resident upon acceptance.

Career Prospects

SCE graduates can look forward to a wide range of exciting career opportunities in the areas of digital media, animation, research and development, consultancy as well as finance and banking. SCE programmes have provided our graduates with an edge and have landed them in leading companies such as IBM, Oracle, Hewlett Packard, Lucasfilm Singapore, Koei Entertainment Singapore, Ubisoft, Singapore Technologies group of companies, Singapore Airlines, Government Investment Corporation, Credit Suisse and Barclays.



School of Materials Science and Engineering



With the increasing demand for materials engineers, the School of Materials Science and Engineering (MSE) has become one of the world's largest materials engineering institutions. Students will be provided with a science-driven and application-oriented engineering education in advanced materials. Equipped with competencies and knowledge in the use of material classifications such as organic, ceramics, composites, semiconductors, biological and nanomaterials, graduates will be suited for industries dealing in material applications including medical treatments, solar cells/batteries and ballistic protection.

Programmes Offered

- Bachelor of Engineering in Materials Engineering**
 This full-time four-year undergraduate programme leads to the degree of Bachelor of Engineering (Materials Engineering) with Honours. In Year 1, students are given a broad education in all important aspects of science and engineering. The fundamentals of materials science, processing, characterisation and applications of materials will be introduced in the second and third year. Students will have the opportunity of undergoing an industrial attachment or industrial orientation programme in Year 3, and in Year 4, with the option to do advanced topics leading to specialisations in various areas of materials engineering.
- Double Degree in Bachelor of Engineering (Materials Engineering) & Bachelor of Arts (Economics)**
 This five-year programme awarded by MSE and the School of Humanities and Social Sciences will give students a greater appreciation for both economic and engineering environments, opening up unparalleled prospects in today's competitive business landscape. Armed with two honours degrees, graduates will be able to choose from a plethora of careers in materials science and engineering, finance and business services industries.

Unique Features

MSE students are provided with a solid foundation in the study of the structure, properties and behaviour of materials. Intensive courses are incorporated for training specialised competencies using sophisticated characterisation and analysis facilities. Students will enjoy the option to study and participate in the development of the next generation of advanced materials for applications in defence, clean energy and biomedical fields. In addition to the world-class facilities and comprehensive training, students will be supported by the School's excellent mentoring system, with dedicated academic counsellors providing guidance throughout their undergraduate candidature.

Career Prospects

Materials Engineers are continually in high demand by industries all over the world for important positions in the aerospace, biomedical, defence, electronics, manufacturing, petrochemical and research sectors.

MSE graduates are employed by organisations such as Shell, ExxonMobil, BASF, Ciba Vision, Essilor, Hewlett Packard, GlobalFoundries, 3M, DSO National Laboratories, ST Microelectronics, Advanced Micro Devices, Renewable Energy Corp., Monetary Authority of Singapore, IMRE, DSI, IME, SIMTech, leading financial and educational institutions, both in Singapore and overseas.



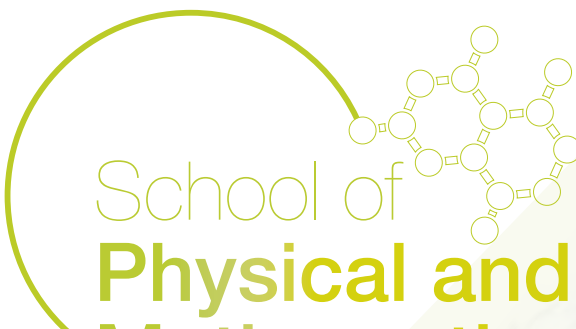
College of Science

www.cos.ntu.edu.sg

At the College of Science, undergraduates will explore the workings of nature through the rigorous application of the scientific method, and discover both their truths in the abstract and the means to employ these truths to mankind's service in the concrete.

Trained to think as a scientist and in the course of their academic journey, students will develop strong skills in logical and lateral reasoning, quantitative and qualitative problem solving, and the language of communication with future cohorts and colleagues in the scientific community. Upon graduation, students will embark on a career path as scientists or mathematicians, invaluable assets to their employers whatever their chosen specialisation.

Our curricula and standards for the various disciplines are modelled after those of the best universities in the world. Students can choose from our broad spectrum of four-year direct Bachelor of Science (Honours) degree programmes or, as a more capable student, join our accelerated programme to graduate in 3.5 years. Promising applicants may also qualify for the CN Yang Scholars Programme - NTU's premier undergraduate programme for science and engineering students. Further opportunities exist to pursue a postgraduate degree by research.



School of Physical and Mathematical Sciences



The School of Physical and Mathematical Sciences (SPMS) recognises that the most exciting and challenging scientific problems of the 21st century demand a shift from the traditional modes of specialisation to merged, holistic disciplines, and as such aims to produce a new generation of graduates who are able to bridge the gaps at the interface of the various branches of science.

Programmes Offered

- **Bachelor of Science (Honours) in Chemistry & Biological Chemistry**

As a budding chemist, students will undergo rigorous training based on the American Chemical Society Curriculum. In addition to the core contents covered in our Bachelor of Science (Honours) programme, they may also opt for concentration in areas of Green Chemistry, Medicinal Chemistry, and Food Science and Technology.

- **Bachelor of Science (Honours) in Mathematical Sciences**

Following 18 months of common foundational courses, the student will choose a specialisation of his choice. The student may opt for the Statistics stream, in which he will be trained in a variety of statistical methods, with an emphasis on the tools used by working statisticians; the Applied Mathematics stream, to be trained as an adept in the use of computation in real-world applications; or the Pure Mathematics stream, whose emphasis is a deep and broad understanding of the theoretical and logical structures underlying mathematics. The overall emphases of this degree are breadth, flexibility and relevance.

- **Bachelor of Science (Honours) in Mathematics & Economics**

Undergraduates pursuing this degree will develop the skills most sought after by the financial services industry in reading both Mathematics and Economics. After the foundational courses, the Mathematical aspect will emphasise numerical, computational and statistical methods. This will complement the Economics side, whose courses are based on quantitative techniques, and the descriptive, qualitative methods of situation assessment. Students may opt for study emphasis in fields such as Nanoscience, Biophysics and Optical Technology.

- **Bachelor of Science (Honours) in Mathematical Sciences with Minor in Finance**

The use of mathematical methods has now become pervasive in all areas of finance and economics, creating new opportunities and giving a new edge to

the mathematics student. The minor in finance has been designed to respond to this trend, and is offered by the Nanyang Business School exclusively to selected SPMS students who will be taking courses in banking and finance in addition to their mathematics curriculum.

- **Bachelor of Science (Honours) in Physics**

The Physics degree is designed to equip students with solid analytical and computational skills, whilst providing strong experimental training. Students may also opt for a concentration in Nanotechnology.

- **Bachelor of Science (Honours) in Applied Physics**

The Applied Physics degree emphasises the physical principles that are critical in driving frontier technology and applied research. Students may opt for concentrations in Nanotechnology, Semiconductor Technology, Optical Technology and Biophysics.

- **Bachelor of Science (Honours) in Physics with Mathematical Sciences Major**

Outstanding students interested in the deeper theoretical aspects of physics can apply for admission to the degree programme where they will complete a first major in Physics, along with a second major in Mathematical Sciences. Through this enhanced degree programme, students can complement their physics degree with a strong mathematical foundation in preparation for graduate studies in theoretical and computational physics.

Unique Features

SPMS offers the only 3- to 4-year direct Honours programme in Chemistry, Physics, Mathematics and Physical Sciences in Singapore.

Career Prospects

Our graduates can look forward to a wide range of exciting career options in the private and public sectors globally. These include the pharmaceutical and chemical industries, the research and development of defence technologies, I.T. and telecommunications, as well as medicine and genomic biology.



Nanyang

Business School

www.nbs.ntu.edu.sg

Programmes Offered

- **Bachelor of Accountancy**

Regarded as the region's most established programme, the three-year direct honours Accountancy degree is recognised as a professional accounting qualification in Singapore by the Institute of Certified Public Accountants of Singapore and the Accounting and Corporate Regulatory Authority. It is also one of the only 9 outside of the United States to be awarded the AACSB accreditation in Accounting. In addition, it is accredited by these institutes for entry into their respective programmes: Institute of Chartered Accountants in England and Wales, Institute of Chartered Accountants in Australia, CPA Australia, Association of Chartered Certified Accountants and Chartered Institute of Management Accountants.

In partnership with the top U.S. accounting programme at the University of Illinois, Urbana-Champaign for the last ten years, NBS has integrated their breakthrough "Project Discovery" to radically transform the way accounting is taught. Active learning methods based on real-world cases and projects are emphasised to develop critical thinking and communication skills. With rich and continuously updated course content, we have a long heritage of developing strategic thinkers and business leaders.

- **Bachelor of Business**

This rigorous and broad-based three-year direct honours programme is among the top business programmes in Asia. With its pragmatic, real-world focus, you will gain global perspectives, critical and analytical skills. The team-based projects, presentations, simulations, and integrative case studies ensure you will be ready to meet the demands of the business world.

This programme offers six cutting-edge and industry-relevant specialisations, giving students an advantage in career choices and valued substantive expertise, matched with their aptitude and interests:

- **Actuarial Science:** recognised by the U.K. Institute of Actuaries (IOA), the programme allows our Actuarial Science students up to eight exemptions from the level one examinations offered by IOA
- **Banking & Finance:** this is recognised as a CFA (Chartered Financial Analyst) programme partner, giving our Banking & Finance students a head-start in their preparation for the CFA qualification
- **Human Resource Consulting:** the only HRC major unique to the Asia-Pacific region in training HR professionals for strategic roles in human capital development for competitive advantage
- **Information Technology:** provides a SAP Business Process Partner certification; combines and synergises IT competency with business domain knowledge to meet today's business needs
- **Marketing:** the curriculum boasts a strong global perspective and real-world orientation

- **Tourism & Hospitality Management:** launched with the support of the Singapore Tourism Board; designed to meet the challenges of a growing and highly dynamic tourism & hospitality industry

- **Double Degree in Accountancy & Business**

Leveraging on the synergies and strengths of our renowned Accountancy and Business programmes, this 3.5 to 4-year double degree programme with direct honours effectively equips graduates with multiple skill sets and knowledge to succeed in the complex and challenging world of business. Other programme features of this double degree include an 8-10 week professional attachment to industry, and a flexible curriculum comprising university minors, wide ranging electives, and international exchange opportunities. It has consistently attracted the best students since its inception.

- **Double Degree in Bachelor of Engineering (Computer Science) & Bachelor of Business (Information Technology)**


This fusion of 2 different programmes – Business and Computer Science – allows students to broaden their scope and leverage on a kaleidoscope of career opportunities. Jointly offered with NTU's School of Computer Engineering (SCE), graduates of this 4-year double degree programme will graduate with the degrees of Bachelor of Business (Information Technology) and Bachelor of Engineering (Computer Science). Its comprehensive and well-rounded curriculum hones students' business management skills and also equips them to excel at software application and development.

- **Double Degree in Bachelor of Engineering (Computer Engineering) & Bachelor of Business (Information Technology)**

Master 2 disciplines – business and computer engineering – in this double degree programme jointly offered by NBS and SCE. It is a hybrid curriculum that has been specially prepared to seamlessly integrate both business and computer engineering elements. This double degree programme in Business and Computer Engineering addresses the industry's increasing need for technical professionals with management skills and perspectives. At the end of four years, you will earn two degrees – Bachelor of Business (Information Technology) and Bachelor of Engineering (Computer Engineering).

Career Prospects

NBS graduates are highly sought after by employers for their acute problem-solving skills, their ability to apply real-world knowledge, as well as to think analytically and strategically. They are also valued for their adaptability, leadership qualities and effective teamwork skills. Held in high regard by many employers, our graduates have found success in major local and international organisations such as Barclays Capital, BOA Merrill Lynch, BNP Paribas, Credit Suisse, Citibank, CapitaLand, Deutsche Bank, Deloitte, Economic Development Board (EDB), GlaxoSmithKline, Goldman Sachs, JPMorgan, Shell, McKinsey, Monetary Authority of Singapore, Microsoft, Singapore Stock Exchange, PriceWaterhouseCoopers, Takeda Pharmaceutical and UBS AG, amongst others.



School of Art, Design and Media



Aptitude and inspiration are often not enough to ensure artistic excellence. What is required are the tools to draw forth from the deepest wells that students bring with them, that drive that defines them as artists.

The School of Art, Design and Media (ADM) provides just such a learning environment which is a treasury of resources through which students may furnish their ideas with actuality. Through the theories of fine and applied art, from drawing and painting to three dimensional design, animation, and digital interactivity, students will gain insight through the exploration of expression and communication.

Particular focus is given to the creation of content, objects, products, basis in time and the interactive experience across mediums. Students begin work in a directed approach to subject matter that culminates in an artistic vision that is uniquely individual. Within a culture where artists influence and find echoes in each other, they will find within the school a strongly supportive and collaborative spirit.

Housed in the new grass-roofed Art, Design & Media building, the school boasts exceptional hands-on studios, digital creation laboratories, media studios and wide open spaces, rivalling the best the industry has to offer without the commercial pressure, to the end that each student discovers and develops his/her own personal genius.

Graduates may prepare to undertake professional posts in design and media, image-making, photography, animation, experience design, and filmmaking, or further their studies in design, cultural theory, arts and media at Master's and Doctoral levels.

ADM's international faculty is a collective of talented and accomplished artist scholars and practitioners, selected for their passion, accomplishment and experience in their respective fields.

Programmes Offered

- Bachelor of Fine Arts in Digital Animation**
 The BFA in Digital Animation is an advanced programme that focuses on animation. Designed to provide students with the fundamentals of the art and craft of animation as well as emergent trends and techniques in the field, the curriculum allows a choice of concentrations according to the student's aptitude and interest. These include hand-drawn, digital, and stop-motion animations. The programme is structured to give students the conceptual tools and knowledge as well as a deep sense of time and spatial composition that will make them stand-out as world class animators.
- Bachelor of Fine Arts in Digital Filmmaking**
 The BFA in Digital Filmmaking offers a comprehensive education in the theory and practice of narrative film production. The curriculum provides students with a foundation in film history, existing cinematic and production techniques and the awareness of the medium's constantly evolving relationship with new technologies. Being by necessity a communal effort, students will develop an appreciation of their work as truly cultural artefacts.
- Bachelor of Fine Arts in Photography and Digital Imaging**
 Photographers explore the first horizons and the fixed perspectives of the standing image. To provide a basis for their own practice, students will study traditional, experimental, and technologically dependent genres of imaging. They will acquire mastery of established darkroom techniques to cutting-edge digital manipulation. Portfolio work and studio practice develop proficiency in conjunction with course work in history and critical theory, giving students both competence and a platform of knowledge from which to base their future work.
- Bachelor of Fine Arts in Interactive Media**
 Designed to cultivate the conceptual and practical skills expected of a first-rate multidisciplinary creative artist, the programme's focus is threefold: interactive installation and device creation; game design, including

scenography, mechanics, narrative and player progression; and interactive theatre design. In the practical component, students are expected to produce work with video and sound, design and execute virtual and real stage settings for live actors and create computer games from conception to production.

- Bachelor of Fine Arts in Product Design**
 Beyond problem-solving skills, in-depth analyses of the relations between users, markets and cultural values, students will learn to work in multiple paradigms, to question established methods and procedures, perceptions and thought. Through dynamic laboratory work and familiarisation with the workshop environment, students will understand the bases of functional innovation, and be able to design products of high conceptual and utility value.
- Bachelor of Fine Arts in Visual Communication**
 Based on craft, concept and critical thinking, and entrenched in a culture of experimentation, the BFA in Visual Communication creates designers capable of dealing with wide medium and work scopes. Their expertise will address design challenges in visual presentation in areas such as advertising, packaging, identity, and in situ experience. Involving a multidisciplinary understanding of fields such as motion graphics, new media, installation and exhibition, students may expect careers in publishing, editorial and event management.

Unique Features

ADM offers interdisciplinary learning and rigorous conceptual development with a wide range of available majors and minors. Students will also be given intensive studio practice and exposure through professional internships and attachments. Under NTU's Overseas Exchange Programme, students can spend up to six months at leading overseas universities.

Career Prospects

Graduates can look forward to rewarding careers in digital animation, digital filmmaking, photography and digital imaging, interactive media, product design and visual communication.



Wee Kim Wee School of Communication and Information



The Wee Kim Wee School of Communication and Information (WKWSCI) is one of Asia's best in communication education and research. Students of WKWSCI prepare themselves for placement and benchmark contribution to both the local and global media scenes.

The School's established ties with the local industry and strong international links with elite communication and information partners ensure a curriculum that has both high yield and relevance. Undergraduates have the choice between five Divisions offering a selection of communication courses that include Journalism and Publishing, Broadcast & Cinema Studies, Public and Promotional Communication, Communication Research, and Information Studies.

Programmes Offered

- Bachelor of Communication Studies (Honours)

The four-year curriculum is an invigorating first step into the exciting and dynamic world of media communication. As part of the course of study, students will enjoy opportunities for exchange study trips to renowned universities in the United States, Europe, Australia and Asia. Students may also take up a professional internship with major local and overseas media players, further strengthening their networks with important industry contacts.

There are six different concentrations available:

- Broadcast and Cinema Studies
- Advertising
- Public Relations
- Journalism
- Communication Policy and Research
- Interdisciplinary

Unique Features

A career in media is an exciting and rewarding prospect. At WKWSCI, students will be groomed for their future career paths by seasoned professionals who will lend both their experience and accumulated knowledge to the learning process. Students will be immersed in various communication media, from journalism to public relations, TV production to information technology, giving them both a complete picture and allowing them to make an informed decision regarding their subsequent specialisation. Theoretical knowledge is not the whole sum of a media student's workload, nor indeed his capabilities. As an aid to the understanding of the many production processes involved in different media, the School provides modern, state-of-the-art facilities to give a practical dimension to learning, including TV and Radio Production studios, focus group rooms, to name a few.

Career Prospects

A degree with WKWSCI will open avenues of opportunity with the media giants in Singapore and abroad in the following industries: Journalism, Broadcast and Cinema Studies, Advertising, Publishing, Human Resources, Management, Public Administration, Arts Administration and Creative Industries.

Sport Science and Management



www.ssm.ntu.edu.sg



Singapore's favourable position as a host country for regional sporting events, bolstered by its excellent infrastructure and security, grows ever more needful of sport-related professionals, trained specialists in vocations catering to the needs of athletes and the industry.

The four-year direct honours programme offers relevant knowledge in areas such as physiology, biomechanics, skill acquisition and psychology, and compounds these with softer skills such as sport management and coaching, to equip its students for engagement in every arena within the sports industry.

Unique Features

Specifically conceptualised to train qualified sport professionals, the SSM curriculum provides undergraduates with relevant coursework, research resources, and access to industry experience through the academic project and the internship programme in the course of their studies.

Outstanding undergraduates will be presented the opportunity to spend up to six months at overseas universities as part of an exchange experience. Expedition stints organised in collaboration with industry partners also give our undergraduates the opportunity for personal growth, team building, and development of their leadership potential.

With state-of-the-art sport science laboratories and teaching facilities at the disposal of well-qualified academic staff, SSM provides a holistic learning experience that prepares students for exciting careers in the sport industry.

Career Prospects

Our students can look forward to career paths ranging from sports administrators, event managers, writers and marketers, to sport scientists, trainers and coaches, all of which are in increasing demand because of the burgeoning sports and leisure industry, as well as Singapore's increasing importance in the capacity of sports hostmanship in the region.

Renaissance Engineering Programme



www.ntu.edu.sg/REP

– Making a New Wave of Engineering Leaders of a Better Age

The Renaissance Engineering Programme (REP) is an integrated programme, a major inter-college collaborative effort of national prominence, realised by partnership with global universities and top-ranking institutions. This is a co-terminal programme to award Bachelor of Engineering Science (with a Specialisation in a specific engineering discipline) and Master of Science (Technological Management) in 4.5 years.

This elite programme aims to attract the brightest students to do engineering at NTU. The curriculum is composed of 4 components: Common Core, Interdisciplinary Studies, Integrative experience, and Specialisation. It is the only programme in Singapore that adopts a systematic approach towards developing leadership and delivering a holistic education.

Unique Features

- A pedagogy that fuses engineering with interdisciplinary studies.
- Specialisation in one of the 8 areas of engineering disciplines (Chemical; Civil & Environmental; Biomedical; Computer; Electrical & Electronics; Materials; Mechanical; and Aerospace).
- 1-Year Overseas experience in partnering university.
- Residential education where residential living translates into residential learning.
- Lifelong mentorship by university alumni, faculty and industry leaders.

Career Prospects

- Engineers who can take a systems approach in the chosen area of specialisation.
- Engineering leaders who are able to deliver integrated solutions and lead interdisciplinary teams effectively and efficiently, in the face of rapid technological innovation and complex economic change.
- REP graduates will have the potential to develop into next-generation Industry Leaders (including Chief Executive Officers/Chief Technology Officers) who will be on the forefront, enabled and well-positioned for the Grand Challenges of Engineering of the 21st Century.



Scholarships

In recognition of academic excellence and leadership potential, NTU offers a wide variety of scholarships to students based on academic merit, leadership qualities, unique talents and outstanding Co-Curricular Activities records. For more information, please visit <http://admissions.ntu.edu.sg/UndergraduateAdmissions/Pages/Scholarships.aspx>

SCHOLARSHIPS	ELIGIBILITY	BENEFITS
Nanyang Scholarship	<ul style="list-style-type: none"> All nationalities All full-time undergraduate programmes leading to a first degree* 	<ul style="list-style-type: none"> Subsidised tuition fees (after Tuition Grant) will be fully covered Living allowance of S\$6,000 per academic year Book allowance of S\$500 per academic year Accommodation allowance of up to S\$2,000 per academic year** Computer allowance of S\$1,500 (one-off) Settling-in allowance of S\$250 (one-off) Unique leadership training programme Priority for Global Immersion Programme No bond#
College Scholarship	<ul style="list-style-type: none"> All nationalities All full-time undergraduate programmes leading to a first degree* 	<ul style="list-style-type: none"> Subsidised tuition fees (after Tuition Grant) will be fully covered Living allowance of S\$3,600 per academic year No bond#
ASEAN Undergraduate Scholarship	<ul style="list-style-type: none"> Citizens or Singapore Permanent Residents from the ASEAN countries except Singapore All full-time undergraduate programmes leading to a first degree* 	<ul style="list-style-type: none"> Subsidised tuition fees (after Tuition Grant) will be fully covered Living allowance of S\$5,800 per academic year No bond#
SembCorp Undergraduate Scholarship	<ul style="list-style-type: none"> Citizens of Indonesia or Singapore Permanent Residents of original Indonesian nationality All full-time Science or Engineering undergraduate degree programmes except Biomedical Sciences & Chinese Medicine 	<ul style="list-style-type: none"> Subsidised tuition fees (after Tuition Grant) and all compulsory miscellaneous fees will be fully covered Living allowance of S\$6,000 per academic year Annual accommodation allowance pegged at the lowest double room rate for on-campus accommodation Settling-in allowance of S\$200 (one-off) One-way air passage from home country to Singapore at the commencement of the programme and a return air passage upon completion of the programme Six-year bond[^]
SIA-NOL Undergraduate Scholarship	<ul style="list-style-type: none"> Citizens of India or Singapore Permanent Residents of original Indian nationality All full-time Science or Engineering undergraduate degree programmes except Biomedical Sciences & Chinese Medicine 	<ul style="list-style-type: none"> Subsidised tuition fees (after Tuition Grant) and all compulsory miscellaneous fees will be fully covered Living allowance of S\$6,000 per academic year Annual accommodation allowance pegged at the lowest double room rate for on-campus accommodation Settling-in allowance of S\$200 (one-off) One-way air passage from home country to Singapore at the commencement of the programme and a return air passage upon completion of the programme Six-year bond[^]
The Khoo Teck Puat Scholarship	<ul style="list-style-type: none"> Citizens of Singapore and People's Republic of China (PRC) or Singapore Permanent Residents of original PRC nationality All full-time undergraduate programmes leading to a first degree* 	<ul style="list-style-type: none"> Subsidised tuition fees (after Tuition Grant) will be fully covered Living allowance of S\$5,800 per academic year <p><i>For PRC scholars (in addition to the above):</i></p> <ul style="list-style-type: none"> Annual accommodation allowance pegged at the lowest double room rate for on-campus accommodation One-way air passage from home country to Singapore at the commencement of the programme and a return air passage upon completion of the programme No bond#

* For Biomedical Sciences & Chinese Medicine Programme, the scholarship will cover only the first three years of study in NTU.

** Applicable for scholars who reside in NTU hostels only.

No bond is attached to the Scholarship apart from the three-year bond applicable to all Singapore Permanent Residents and international students under the MOE Tuition Grant Scheme.

[^] Scholars are required to serve a six-year bond with the sponsoring company or its subsidiaries, or if not so required to serve, work in a Singapore-registered company.

CN Yang Scholars Programme

The CN Yang Scholars Programme, named after 1957 Physics Nobel laureate Professor Chen-Ning Yang (CN Yang), is specially designed with talented science and engineering students in mind.

It aims to give you a strong foundation in science and mathematics while fuelling your interest in specialised fields of science, mathematics and engineering. Shortlisted students will be awarded a full scholarship that covers tuition fees and living expenses.

For more information, please visit <http://www.ntu.edu.sg/cnyang-scholars>

SUBJECT REQUIREMENTS

In addition to fulfilling the minimum entry requirements, applicants applying for the degree programmes listed below must also satisfy the minimum subject requirements.

PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	
	INTERNATIONAL BACCALAUREATE (IB)	OTHER INTERNATIONAL QUALIFICATIONS
Engineering		
<ul style="list-style-type: none"> • Aerospace Engineering •□ • Civil Engineering •□ • Electrical & Electronic Engineering •□ • Environmental Engineering •□ • Engineering □ • Information Engineering & Media •□ • Mechanical Engineering •□ • Renaissance Engineering Programme Δ* 	Mathematics at Higher Level and Physics/Chemistry/Biology/Computer Science at Higher Level and Physics at Standard Level or equivalent +	Mathematics and Physics/Chemistry/Biology at Senior High School Level and Physics at Junior High School Level +
<ul style="list-style-type: none"> • Business & Computing (Double Degree) • Bioengineering •□ • Computer Engineering •□ • Computer Science •□ 		Mathematics and Physics/Chemistry/Biology/Computer Science at Senior High School Level and Physics at Junior High School Level +
<ul style="list-style-type: none"> • Materials Engineering •□ 	Mathematics at Higher Level and Physics/Chemistry/Biology at Higher Level and Physics at Standard Level or equivalent +	Mathematics and Physics/Chemistry/Biology at Senior High School Level and Physics at Junior High School Level +
<ul style="list-style-type: none"> • Chemical & Biomolecular Engineering •□ 	Mathematics and Chemistry at Higher Level and Physics at Standard Level or equivalent +	Mathematics and Chemistry at Senior High School Level and Physics at Junior High School Level +
<ul style="list-style-type: none"> • Maritime Studies # • Maritime Studies with Business Major # 	Mathematics at Standard Level and Physics/Chemistry/Biology at Standard Level	Additional Mathematics and Physics/Chemistry/Biology/Science at Junior High School Level
Science		
<ul style="list-style-type: none"> • Biological Sciences □* 	Mathematics at Standard Level and Physics/Chemistry/Biology at Higher Level	Mathematics at Junior High School Level and Physics/Chemistry/Biology at Senior High School Level
<ul style="list-style-type: none"> • Biomedical Sciences & Chinese Medicine (Double Degree)* 	Mathematics and Chinese at Standard Level and Physics/Chemistry/Biology at Higher Level	Mathematics and Chinese at Junior High School Level and Physics/Chemistry/Biology at Senior High School Level
<ul style="list-style-type: none"> • Chemistry & Biological Chemistry 	Chemistry at Higher Level and Mathematics/Physics at Higher Level	Chemistry and Mathematics/Physics at Senior High School Level
<ul style="list-style-type: none"> • Mathematical Sciences ^ • Mathematics & Economics (Combined Degree) 	Mathematics at Higher Level	Mathematics at Senior High School level
<ul style="list-style-type: none"> • Physics / Applied Physics • Physics with Mathematical Sciences Major 	Physics and Mathematics at Higher Level	Physics and Mathematics at Senior High School Level
Business		
<ul style="list-style-type: none"> • Accountancy* • Business* • Accountancy & Business (Double Degree)* 	Mathematics at Standard Level	Additional Mathematics at Junior High School Level

APPLYING TO NTU

Application Procedure

Applications have to be submitted online at

<http://admissions.ntu.edu.sg/UndergraduateIntnlAdmissions/Pages/InternationalOthers.aspx>

A non-refundable and non-transferrable application fee of S\$30 or US\$30 (inclusive of S\$10 or US\$10 handling charge) is applicable for payment by a bank draft payable to “Nanyang Technological University”. Please write your application number and name on the back of the bank draft. If you choose to pay online by credit card, you will enjoy a discounted application fee of only S\$20.

Please print checklist and send the following supporting documents together with the bank draft (where applicable) to the Office of Admissions and Financial Aid not more than one week after the application closing date.

- Copy of birth certificate or passport
- Junior High School national examination results* (eg. Malaysia SPM, India Standard 10)
- Senior High School internal examination results* (eg. Indonesia Rapor SMA Year 10 and Year 11, Vietnam Year 10 and Year 11) if you have not taken your senior high school national examination
- Senior High School national examination results*, if applicable (e.g. Indonesia UAN, Vietnam HSC)
- Actual IB/'A' Level (AQA, Brunei, Cambridge, Edexcel, Hong Kong, Maldives, Sri Lanka, London)/India Standard 12 examination results*, when available (required)
- University entrance examination results*, if any
- University academic transcripts* (if applicable)

** certified by school principal or teacher or any gazetted officer*

Entrance Examination

International students with Malaysia STPM, Malaysia UEC, 'A' Level (AQA, Brunei, Cambridge, Edexcel, Hong Kong, London, Maldives, Sri Lanka), India Standard 12, Mauritius HSC, PRC Gao Kao, American High School Diploma, German Abitur, French Baccalaureate and International Baccalaureate qualifications are not required to take the entrance examination. In addition, applicants who have won gold, silver or bronze medals in International Science Olympiad Competitions will be exempted from taking the entrance examination.

Applicants with other qualifications may be required to take an entrance examination before a final decision on admission is made. Details of the examination will be made known to shortlisted applicants.



**Office of Admissions and Financial Aid
Nanyang Technological University**

Student Services Centre, Level 2

42 Nanyang Avenue, Singapore 639815

FOR INTERNATIONAL STUDENTS

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www.ntu.edu.sg/intnladmissions

Reg. No. 200604393R

Information is correct as at September 2011.