SCHOOL OF
LIFE SCIENCES & CHEMICAL TECHNOLOGY

› Biomedical Science
› Pharmaceutical Science
› Landscape Design & Horticulture
› Chemical & Biomolecular Engineering
› Environmental & Water Technology
Your natural curiosity about the world makes you the best person to unlock the mysteries of life and create wonders of science. Now, embrace emerging technologies for the new digital future of the world of science and be equipped with multi-disciplinary skill sets to solve real-world problems at the School of Life Sciences & Chemical Technology (LSCT).
5 FUTURE-READY DIPLOMAS

Has the prevailing pandemic inspired in you a passion for medical research or healthcare services? Or have you found your calling in creating sustainable solutions for tomorrow’s world amid rising global climate challenges? Our five robust diplomas aim to prepare you for the new world that your generation will face.

Life Sciences
Diploma in Biomedical Science
• An established and reputable biomedical science programme with strong industry exposure and lab skills to prepare you well for further studies and work
• Enriching electives in emerging sectors such as bioscience and food science & technology
• Internships with renowned companies, research institutes and healthcare institutes such as Lonza, Procter & Gamble, A*STAR’s Institute of Molecular and Cell Biology and National Cancer Centre Singapore

Diploma in Pharmaceutical Science
• Enjoy a wide range of career opportunities with broad-based training in healthcare and applied science
• Strengthen industry readiness through internships at community and hospital pharmacies, pharmaceutical and biopharmaceutical organisations
• Learn from practising pharmacists in your third-year modules
• Interesting electives to enhance your knowledge in the fields of Traditional Chinese Medicine and Nutritional Science

Horticulture & Landscape
Diploma in Landscape Design & Horticulture
• The only diploma of its kind that combines landscape design with plant science and horticulture
• Strong partnership with the National Parks Board
• Real-world learning in national parks, gardens, resorts and golf courses equip you with know-how to meet industry needs

Chemical & Environmental Technology
Diploma in Chemical & Biomolecular Engineering
• Learn in IT-enabled facilities that prepare you for the digital future
• Diverse career opportunities, including the fast-growing pharmaceutical & biopharmaceutical industries
• Internship opportunities at world-renowned companies and research facilities

Diploma in Environmental & Water Technology
• An established course in environmental science and technology that contributes to a sustainable future
• Supported by the National Environment Agency and PUB, Singapore’s National Water Agency
• Participate in integrated multi-disciplinary projects
• Widen your career choices with three additional professional certificates

Find us online at www.np.edu.sg/lsct

INDUSTRY COLLABORATIONS
Learn in real-world settings, thanks to our strong collaborations with the industry, where you will have lots of opportunities to learn from experts in the field.

INDUSTRY MENTORSHIPS
Get real industry insights and career advice from industry practitioners and lecturers, with our Industry Mentor’s Network and Education & Career Guidance programmes.

THE EDGE IN R&D
We are also known for our expertise in areas such as biocatalysis and fermentation, cancer biology, molecular diagnostics, membrane technology, sky-rise greening, agri-tech and aquaculture, and food technology. Our edge will give you a head start in pursuing research work in these fields!

WHY CHOOSE LSCT
Looking for a reputable school that offers a robust education in life sciences and chemical technology that will give you a head start for further studies and work, and get you ready for the digital world? Find out why Ngee Ann Polytechnic’s School of Life Sciences & Chemical Technology (LSCT) is the perfect place for you:

TOP LECTURERS
You’re in good hands here! Our lecturers are well equipped with rich research and industry experience, with the majority holding postgraduate qualifications.

GLOBAL EXPOSURE
Gain a global perspective by participating in various overseas internships and immersion programmes to places such as London, Brisbane, Bangkok, Chongqing, Hong Kong, Nanjing, and Shanghai.

DEGREES & SCHOLARSHIPS
Our graduates have completed their degrees at top universities around the world. Some have even clinched prestigious PSC, PUB, MOHH, NEA and A*STAR scholarships. In addition, 26 LSCT graduates have made it to local medical schools at NUS and NTU. Read more on Pg 24.

SMART FUTURE
Digitalisation is fast transforming the world of science. At LSCT, we’ll ensure you are prepared for the new age. You’ll learn about emerging technologies such as 3D printing, Internet of Things (IoT), and virtual reality to add value to your future work in the life science or chemical industry.
PERSONALISED LEARNING PATHWAY

Ever wished that you could learn something you like, and at the same time, gain an Xtra edge? With NP’s new and unique Personalised Learning Pathway (PLP), your dream has just come true!

4 PATHWAYS

<table>
<thead>
<tr>
<th>Professional Skills</th>
<th>Entrepreneurship</th>
<th>Global Readiness</th>
<th>Social Leadership</th>
</tr>
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<tbody>
<tr>
<td>Minor In&lt;br&gt;• Applied Psychology&lt;br&gt;• Cybersecurity&lt;br&gt;• Data Analytics &amp; AI&lt;br&gt;• Internet of Things&lt;br&gt;• Social Media Marketing&lt;br&gt;• User Experience Design</td>
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<td>Minor In&lt;br&gt;• Foreign Languages&lt;br&gt;• Global Readiness</td>
<td>Minor In&lt;br&gt;• Social Leadership</td>
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</table>

Under the PLP, you can take up a Minor certificate programme in an area that is outside of your diploma. Choose from 10 Minors across 4 pathways – Professional Skills, Entrepreneurship, Global Readiness and Social Leadership.

The Minor can be in an emerging area such as Data Analytics & AI and User Experience Design, or a subject of interest like Applied Psychology and Korean language! If you complete all the 3 curated learning units, you will graduate with a Minor Certificate on top of your diploma!

Visit www.np.edu.sg/plp or scan the QR code to find out more.

Diploma in Biomedical Science with Minor in an emerging area or subject of interest!

- An established and reputable biomedical science programme with strong industry exposure and lab skills to prepare you well for further studies and work
- Enriching elective modules in emerging sectors such as biomanufacturing and food science & technology
- Work on independent research during your final-year Capstone Project to develop innovative solutions for real-world problems
- Internships with renowned research institutes, biopharmaceutical, pharmaceutical or food manufacturing companies, and healthcare institutes

Scholarships Available:
- A*STAR Science Award
- NP Scholarship
- NP Merit Award
- Donor Scholarship
- Polytechnic Foundation Programme Study Award

Get latest updates on course
WHAT THE COURSE IS ABOUT
Fascinated by the structure of living organisms and how the human body functions? Or interested in making the next big breakthrough in diagnosing, treating or preventing diseases like COVID-19? With the rising quality of health care, our reputable Diploma in Biomedical Science (BMS) will give you a head start if you are keen on a dynamic career in the biotechnology sector or medical field, including allied healthcare.

Known for its rigorous and broad-based curriculum, BMS will prepare you well for both further studies and work.

In your first year, you will take modules that will give you a firm foundation in bioscience and chemistry. In your second year, you will develop research and problem-solving skills that are highly valued by the industry. You will acquire knowledge and skills in analytical chemistry, molecular biology, cell culture & bioprocess engineering and immunological techniques. Elective modules in biomanufacturing and food science & technology will also broaden your career opportunities.

In your third year, you will deepen your skills in Genomics & Proteomics and Translational Medicine & Clinical Trials, and apply your knowledge in conducting translation research.

You will also work on your Capstone Project and undertake a six-month internship with local or overseas research institutes such as A*STAR’s Genome Institute of Singapore, Institute of Bioengineering and Nanotechnology and Institute of Molecular and Cell Biology, biopharmaceutical and pharmaceutical companies such as Lonza, Procter and Gamble, and Thermo Fisher Scientific, and healthcare institutes like SingHealth (National Cancer Centre Singapore).

During my final year, I had the opportunity to work on a project that investigated the effects of aristolochic acid on bile duct and liver cancer cells. It was an eye-opening experience as I learned to apply the knowledge taught in school in a real-world setting. I am grateful for the support of my lecturers and the opportunities provided by NP. I would not be where I am today without the guidance from my supportive lecturers.

Summer Li
Diploma in Biomedical Science, Class of 2021
Summer was awarded the A*STAR National Science Scholarship and will be pursuing a degree in Biological Science at Imperial College London.

WHAT YOU WILL LEARN
YEAR 1
- Anatomy & Physiology
- Biosafety & Risk Management
- Biostatistics
- Cell Biology & Genetics
- Inorganic & Physical Chemistry
- Organic Chemistry
- Mathematics
- Microbiology
- Career & Professional Preparation I
- Health & Wellness
- Innovation Made Possible
- Communication Essentials
- English Language Express

YEAR 2
- Analytical Chemistry
- Applied Microbiology
- Applied Biostatistics
- Biochemistry
- Cell Culture & Bioprocess Engineering
- Immunological Techniques
- Molecular Biology & Bioinformatics
- Any two elective modules:
  - Biomanufacturing Practices
  - Biopharmaceutical Analysis
  - Food Science & Technology
  - Food Processing & Safety
- Career & Professional Preparation II
- World Issues: A Singapore Perspective

YEAR 3
- Genomics & Proteomics
- Translational Medicine & Clinical Trials
- Capstone Project
- Internship
- Project ID: Connecting the Dots

* Interdisciplinary Studies (IS) modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. IS aims to develop students to be agile and self-directed learners, ready for the future workplace.

** For selected students only.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.

FURTHER STUDIES
As a BMS graduate, you can pursue a wide range of degree programmes such as biological science, medicine & healthcare, laboratory medicine, medical technology, food science & technology, bioengineering, chemistry, dentistry, education, psychology, social science, architecture, business and business administration.

In fact, more than half of our graduates enrol into National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore Institute of Technology and Singapore University of Social Sciences every year.

Top overseas universities also welcome our graduates with exemptions. They include:

Australia
- Australian National University
- Murdoch University
- Queensland University of Technology
- RMIT University
- The University of Adelaide
- The University of Melbourne
- The University of Queensland
- The University of Sydney
- The University of Western Australia
- University of New South Wales
- University of Technology Sydney

New Zealand
- The University of Auckland

United Kingdom
- Queen’s University Belfast
- University of Dundee
- University of Leeds
- University of Liverpool
- The University of Edinburgh
- The University of Manchester

YEAR 1
- Biology
- Chemistry
- Mathematics
- Inorganic & Physical Chemistry
- Cell Biology & Genetics
- Applied Biostatistics
- Analytical Chemistry
- Applied Microbiology
- Biosafety & Risk Management
- Career & Professional Preparation I
- Health & Wellness
- Innovation Made Possible
- Communication Essentials
- English Language Express

YEAR 2
- Analytical Chemistry
- Applied Microbiology
- Applied Biostatistics
- Biochemistry
- Cell Culture & Bioprocess Engineering
- Immunological Techniques
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- The University of Western Australia
- University of New South Wales
- University of Technology Sydney

New Zealand
- The University of Auckland

United Kingdom
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- University of Dundee
- University of Leeds
- University of Liverpool
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** For selected students only.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.
CAREER
As a versatile BMS graduate who is able to respond to fast-changing employment needs, you can enter various industries upon graduation. Look forward to careers in roles including:

- Assistant Food Technologist
- Clinical Trial Assistant
- Laboratory Analyst
- Laboratory Technologist
- Manufacturing Biotechnologist
- Medical Laboratory Scientist
- Quality Assurance Executive
- Quality Control Analyst
- Research Assistant
- Sales & Marketing Representative

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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<td>1-6</td>
</tr>
<tr>
<td>Science (with Physics, Chemistry or Biology component) or Biotechnology or Combined Science or Design &amp; Technology or Electronics/Fundamentals of Electronics or Engineering Science or Food &amp; Nutrition or Physical Science</td>
<td>1-6</td>
</tr>
</tbody>
</table>

You must also fulfil the aggregate computation requirements for the ELR2B2-C Aggregate Type listed at www.np.edu.sg/admissions/Documents/ELR2B2.pdf

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

CONTACT US
For the most up-to-date information on NP’s Diploma in Biomedical Science, visit www.np.edu.sg/bms

N73
DIPLOMA IN
PHARMACEUTICAL SCIENCE

Integrative curriculum with a hybrid of pharmacy practice and pharmaceutical science applications lays a strong foundation for future academic progression and employment

Enjoy a wide range of career opportunities with broad-based training in healthcare and applied science

Strengthen industry readiness through internships at community and hospital pharmacies, or pharmaceutical and biopharmaceutical organisations

Final-year electives in Complementary Medicine & Traditional Chinese Medicine and Nutrition & Dietetic Science offer wider career choices

Scholarships Available:
- A*STAR Science Award
- NP Scholarship
- NP Merit Award
- Donor Scholarship
- Polytechnic Foundation Programme Study Award

Sponsorships Available:
- Tan Tock Seng Hospital (T TSH) Study Sponsorship
- Woodlands Health Campus (WHC) Study Sponsorship
WHAT THE COURSE IS ABOUT
Discover what it is like to work at the forefront of drug discovery and development, and their roles in the war against the COVID-19 pandemic and other diseases when you venture into the Diploma in Pharmaceutical Science (PHARM).

This course will equip you with a solid foundation in biological, chemical and pharmaceutical sciences in your first year. In your second year, you will learn more advanced topics that include the biomedical aspects of drugs such as clinical trials, drug manufacturing, pharmaceutics and pharmacology.

In your final year, you will get to go for a six-month internship in community and hospital pharmacies, such as National Healthcare Group polyclinics and Tan Tock Seng Hospital, or pharmaceutical companies such as Lonza. You will be involved in projects and tackle real-world issues. In addition, you will learn clinical knowledge and pharmacy skills from practising pharmacists in your third-year modules.

Plus, you will get to take electives to widen your future career choices. Choose the Complementary Medicine & Traditional Chinese Medicine elective if you want to learn how to evaluate the evidence behind alternative therapies and traditional Chinese medicines. Alternatively, you can opt for the Nutrition & Dietetic Science elective if you are interested in learning about how nutrients, supplements and weight management can impact one’s health.

To prepare you for the future, you will get a chance to learn 3D printing and prototyping skills that will help you to develop innovative solutions that can improve patients’ healthcare journeys. You can also explore the inner workings of a pharmacy through our interactive, 360 virtual community pharmacy, and immerse in this 3D experience from the comfort of your home.

WHAT YOU WILL LEARN
YEAR 1
- Anatomy & Physiology
- Biosafety & Risk Management
- Biostatistics
- Cell Biology
- Fundamentals In Pharmaceutical Science
- Inorganic & Physical Chemistry
- Mathematics
- Organic & Biological Chemistry
- Career & Professional Preparation I
- Health & Wellness
- Innovation Made Possible
- Communication Essentials
- English Language Express

YEAR 2
- Applied Biostatistics
- Current Good Manufacturing Practice
- Medicinal Chemistry & Drug Discovery
- Microbiology & Immunology
- Molecular & Cellular Biochemistry
- Pathology
- Pharmaceutical Analysis
- Pharmaceutics
- Pharmacology
- Career & Professional Preparation II
- World Issues: A Singapore Perspective

YEAR 3
- Clinical & Pharmacy Practice
- Pharmacotherapeutics & Good Dispensing Skills
- Pharmacy Management & Logistics
- Any one elective module:
  - Complementary Medicine & Traditional Chinese Medicine
  - Nutrition & Dietetic Science
  - Internship
  - Project ID: Connecting the Dots

CAREER
Your PHARM diploma will open doors to many careers. Here are some roles that you can look forward to:
- Clinical Trial Associate / Coordinator
- Healthcare Product Executive
- Laboratory Technologist
- Pharmaceutical Sales Executive
- Pharmacy Technician
- Quality Control Analyst
- Quality Assurance Analyst
- Regulatory Executive
- Research Technologist

FURTHER STUDIES
As a PHARM graduate, you can apply for the Bachelor of Pharmacy (Honours) and Bachelor of Science (Pharmaceutical Science) at National University of Singapore. Besides, you can apply for related degrees in allied health, biological science, chemistry, life sciences, dentistry and medicine, or a wide range of other degrees such as arts, architecture, business, education, psychology and social science offered by the local universities.

You may enjoy exemption when applying for related degree programmes at overseas universities, including:
- Australia
  - Monash University
  - Queensland University of Technology
  - RMIT University
  - The University of Melbourne
  - The University of Queensland
  - The University of Sydney
  - The University of Western Australia
- New Zealand
  - The University of Auckland
  - University of Otago
- Singapore
  - University of Singapore
  - Singapore Management University
- India
  - Manipal International University
- United Kingdom
  - University of Bradford
  - University of Dundee
  - University of London
- New Zealand
  - University of Auckland
  - University of Otago

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
To be eligible for consideration, candidates must have the following GCE O’Level examination (or equivalent) results.

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period. Candidates with colour vision deficiency should not apply for the course.

CONTACT US
For the most up-to-date information on NP’s Diploma in Pharmaceutical Science, visit www.np.edu.sg/pharm

I had the opportunity to assist pharmacists to prepare and dispense medications to patients during my internship at National University Hospital’s Pharmacy Department. These hands-on experiences allowed me to gain a deeper appreciation of the pharmaceutical industry. Vernice Vee
Diploma in Pharmacy Science*, Class of 2020
Vernice was a recipient of the Ngee Ann Polytechnic Outstanding Achievement Award. She is pursuing a degree in Pharmacy at the National University of Singapore.

* now renamed as Diploma in Pharmaceutical Science
The only polytechnic diploma that combines training in landscape design with plant science and horticulture

Strong partnership with National Parks Board to offer outdoor practical lessons at the Singapore Botanic Gardens and Clementi Woods Park

Broad-based curriculum opens doors to further studies in botany, horticulture, environmental science, urban agriculture, landscape architecture and architecture

Enjoy exemption for related degree courses in several renowned overseas universities

Scholarships Available:
- NP Scholarship
- NP Merit Award
- Donor Scholarship
- Polytechnic Foundation Programme Study Award

Get latest updates on course

In your final year, you will get to go for a six-month internship that provides you with an opportunity to put your learning into practice in a work environment, at places such as Gardens by the Bay, Sentosa Golf Club, Singapore Botanic Gardens, Sungei Buloh Wetland Reserve, Pulau Ubin and Wildlife Reserves Singapore.

In addition, this course will hone your project management skills at the various parks and project sites in Singapore, where you can help to design guided tours, therapeutic gardens and biophilic play areas. You may also get a chance to create prototypes of hydroponics and aquaponics systems, and investigate and experiment on growth parameters for edible crops.

WHAT THE COURSE IS ABOUT

Want to be the creative drive behind Singapore’s garden city or play a part in building a sustainable and green future? If you have a love for nature and a flair for design, the Diploma in Landscape Design & Horticulture (LDH) will put you on the right track to develop and enrich Singapore’s green spaces.

Combining landscape design, plant science and horticulture management, LDH is the only diploma-level course of its kind in Singapore. Thanks to our strong partnership with the National Parks Board, much of your practical training, field sessions and outdoor lessons will take place at the Greenhub, a dedicated classroom set in the midst of Clementi Woods Park, Singapore Botanic Gardens and other national parks and gardens.

In your first year, you will develop skills in landscape design and learn about urban ecology and conservation, as well as plant taxonomy. You will progress on to learn about horticulture, landscape management, plant physiology and breeding, and hardscape and softscape design in your second year.

At our Internet-of-Things (IoT)-enabled greenhouse facility, you will learn about urban agriculture and how to optimise crop growth through analysis of real-time environmental data detected by smart sensors. You will also get hands-on learning experiences out of the classroom, such as tree planting in Pulau Ubin and various locations in Singapore, or helping with the removal of invasive plant species in our nature reserves.

In your final year, you will get to go for a six-month internship that provides you with an opportunity to put your learning into practice in a work environment, at places such as Gardens by the Bay, Sentosa Golf Club, Singapore Botanic Gardens, Sungei Buloh Wetland Reserve, Pulau Ubin and Wildlife Reserves Singapore.

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CAREER
You can put your green thumbs to work at the two integrated resorts, three waterfront gardens at Marina Bay, country clubs, hotels and property developments across Singapore. As an LDH graduate, you can also find employment in these roles:

– Horticulturist
– Horticulture Product Specialist
– Park Officer
– Lab Technologist
– Landscape Designer
– Landscape Project Executive
– Nursery Supervisor
– Research Officer
– Turfgrass Specialist
– Urban Farmer

FURTHER STUDIES
You can apply for courses such as architecture, landscape architecture, business, law, science and social studies at National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore University of Technology and Design, Singapore Institute of Technology and Singapore University of Social Sciences.

You may pursue a related degree course (such as architecture, landscape architecture, business, horticulture, plant science, botany and arboriculture) at overseas universities with exemption. They include:

Australia
– Australian National University
– Monash University
– The University of Adelaide
– The University of Melbourne
– The University of Queensland
– The University of Sydney
– The University of Western Australia
– University of New South Wales

New Zealand
– Lincoln University

United Kingdom
– The University of Manchester

United States
– University of Georgia

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-D
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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</tr>
<tr>
<td>Any two other subjects</td>
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</tr>
</tbody>
</table>

You must also have sat for one subject listed in the 2nd group of relevant subjects for the ELR2B2-D Aggregate Type listed at www.np.edu.sg/admissions/Documents/ELR2B2.pdf

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

CONTACT US
For the most up-to-date information on NP’s Diploma in Landscape Design & Horticulture, visit www.np.edu.sg/ldh

WHAT YOU WILL LEARN
YEAR 1
– Computer-Aided Design and Information Modelling
– Chemistry
– Landscape Design Communication 1
– Landscape Studio 1 - Design Fundamentals I & II
– Plant Anatomy & Morphology
– Soil Science
– Taxonomy & Plant Identification
– Urban Ecology & Conservation
– Career & Professional Preparation I
– Health & Wellness^*
– Innovation Made Possible^*
– Communication Essentials^*
– English Language Express^*

YEAR 2
– Hardscape Design
– Landscape Design Communication 2
– Landscape Studio 2 - Design Process I & II
– Plant Pathology & Entomology
– Plant Physiology & Breeding
– Propagation & Nursery Management
– Softscape Design
– Urban Horticulture Technology
– Urban Landscape Management
– Career & Professional Preparation II
– World Issues: A Singapore Perspective^*

YEAR 3
– Landscape Project Management
– Landscape Studio 3 - Independent Projects
– Leisure & Park Management
– Urban Agri-Technology
– Project
– Internship
– Project ID: Connecting the Dots^*

^* Interdisciplinary Studies (IS) modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse disciplines together, the interdisciplinary project fosters collaboration to explore solutions for real-world problems. IS aims to develop students to be agile and self-directed learners, and ready for the future workplace.

^ For selected students only.

The strong foundational skills and knowledge attained in the LDH course allowed me to develop myself in my career as a horticulturist and now as an arborist with Mao Sheng. These specialised skills and knowledge increased my passion and interest in plants.

Carissa Kwa
Diploma in Landscape Design & Horticulture, Class of 2016
Carissa is an assistant project manager and certified arborist at Mao Sheng Quanji Construction Pte Ltd.

You can enrol in many relevant certification courses that are offered by the Centre for Urban Greenery and Ecolgy to further develop your expertise in the landscape industry. There are also relevant programmes organised by the National Parks Board and the Singapore Institute of Landscape Architects that you can join to stay current with industry practices.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.
WHAT THE COURSE IS ABOUT
A broad-based course that integrates biological and chemical sciences with engineering concepts, the Diploma in Chemical & Biomolecular Engineering (CBE) will open doors to a variety of careers. Learn how to apply principles of chemistry, physics, mathematics and biology to develop valuable products in an efficient and sustainable way.

In your first year, you will be equipped with a solid foundation for chemical engineering, with modules such as chemistry, physics and mathematics. You will also be introduced to how basic concepts in science are used in engineering through the Introduction to Engineering Principles module.

In your second year, you will explore the application of scientific concepts in the operation of common engineering systems and equipment. These include an in-depth study of biopharmaceutical technology, chemical engineering transfer technologies, analytical chemistry, as well as environment, health and safety.

In your final year, you will deepen your chemical engineering knowledge and acquire insights into the operations of integrated operating facilities through modules such as Sustainable Industry Processes, Separation Technology, as well as Process and Automation Laboratory.

You will also get to explore a virtual chemical plant and use computer simulations to hone your communication and troubleshooting skills. In addition, you can put your learning into practice during a six-month internship. You can opt for either an Industry Internship with companies such as Chevron Oronite, ExxonMobil, Shell Petrochemicals and GlaxoSmithKline or a Research Internship in a local or overseas research facility.

WHAT YOU WILL LEARN

YEAR 1
- Data Analytics and Engineering Drawing
- Engineering Mathematics I & II
- Inorganic & Physical Chemistry
- Introduction to Engineering Principles
- Organic & Biological Chemistry
- Thermodynamics
- Career & Professional Preparation I
- Health & Wellness
- Innovation Made Possible
- Communication Essentials
- English Language Express

YEAR 2
- Analysis of Chemical Engineering Processes
- Analytical Chemistry
- Biopharmaceutical Production
- Environment, Health and Safety
- Process Technology Operations
- Reaction and Flow Laboratory
- Reaction Engineering
- Transfer Process and Environmental Laboratory
- Transfer Processes: Fluid Flow
- Transfer Processes: Heat & Mass
- Career & Professional Preparation II
- World Issues: A Singapore Perspective

YEAR 3
- Computer Aided Process Optimisation
- Current Good Manufacturing Practices
- Process and Automation Laboratory
- Separation Technology
- Sustainable Industry Processes
- Any one internship track:
  - Industry Internship
  - Research internship
- Project ID: Connecting the Dots

Scholarships Available:
- A*STAR Science Award
- NP Scholarship
- NP Merit Award
- Donor Scholarship
- Polytechnic Foundation Programme Study Award

Get latest updates on course

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.
DIPLOMA IN ENVIRONMENTAL & WATER TECHNOLOGY

An established course in environmental science and technology that contributes to a sustainable future

Strong partnership with PUB and NEA

Work with scientists and engineers on exciting industry-based multi-disciplinary projects at our Environmental & Water Technology Centre of Innovation

Apply for a bond-free PUB Scholarship that comes with an internship placement

ENTRY REQUIREMENTS

Aggregate Type ELR2B2-C

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CONTACT US

For the most up-to-date information on NP’s Diploma in Chemical & Biomolecular Engineering, visit www.np.edu.sg/cbe

With a well-structured curriculum and a myriad of learning opportunities, CBE has strengthened my interest and skill sets in the chemical engineering field, and also propelled me to broaden my learning horizons to areas such as innovation and financial investments.

Tan Bing Qian
Diploma in Chemical & Biomolecular Engineering, Class of 2020

Bing Qian is a recipient of the A*STAR Science Award (Poly), NP Scholarship, Croda Singapore Gold Medal and Prize, as well as the NTU-University Scholars Programme Scholarship. He has accepted an offer to read Chemical and Biomolecular Engineering at NTU.

Scholarships Available:

- PUB Diploma Scholarship
- NEA Industry Scholarship
- NP Scholarship
- NP Merit Award
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- Polytechnic Foundation Programme Study Award

United Kingdom
- Imperial College
- Loughborough University
- Newcastle University
- The University of Manchester
- University of Birmingham

Australia
- The University of Adelaide
- The University of Melbourne
- The University of Queensland
- The University of Western Australia
- University of New South Wales

FURTHER STUDIES

You can pursue a wide range of degrees offered by National University of Singapore, Nanyang Technological University, Singapore Institute of Technology, Singapore Management University, Singapore University of Technology and Design and Singapore University of Social Sciences. These include degree courses in chemical and biomolecular engineering, chemical engineering, environmental engineering, material sciences, physics, chemistry and biological sciences.

You may enjoy exemption when you apply for related degree programmes at overseas universities, including:

- United Kingdom
- Australia

CAREER

The CBE course provides you with the foundation and flexibility to enter various industries, ranging from chemical, petrochemical, biochemical, biotechnology, biomedical and pharmaceutical to food & beverage, electronics, and environment, health and safety. Here are some roles that you can look forward to:

- Assistant Engineer
- Laboratory Analyst
- Plant Safety Officer
- Process Technician
- Quality Assurance / Quality Control Officer
- Technical Sales & Support Representative

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WHAT YOU WILL LEARN

YEAR 1
- Data Analytics & Drafting
- Engineering Mathematics I & II
- Environmental Microbiology & Biotechnology
- Fundamentals of Engineering Principles
- Hydraulics
- Inorganic & Physical Chemistry
- Solid & Hazardous Waste Management
- Career & Professional Preparation I
- Health & Wellness *
- Innovation Made Possible *
- Communication Essentials *
- English Language Express **

YEAR 2
- ABC Waters Management
- Air Quality Monitoring & Control
- Civil Engineering Fundamentals
- Environmental Laboratory II
- Environmental Management Systems
- Noise Monitoring & Control
- Water & Environmental Chemistry
- Water Pollution & Reclamation Technology
- Water Supply Technology & Design
- Workplace Safety & Health
- Career & Professional Preparation II
- World Issues: A Singapore Perspective *

YEAR 3
- Environmental Innovation & Research
- Environmental Laboratory III
- Industrial Wastewater & Membrane Technology
- Internship
- Project ID: Connecting the Dots *

* Interdisciplinary Studies (IS) modules account for 13 credits of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse disciplines together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. IS aims to develop students to be agile and self-directed learners, ready for the future workplace.

** For selected students only.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.

WHAT THE COURSE IS ABOUT
With life in Singapore set to be much greener under the Singapore Green Plan 2030, new sustainability initiatives will change the way people work, study and play. Be at the forefront of developing sustainable environmental solutions when you join the Diploma in Environmental & Water Technology (EWT). Jointly developed with PUB, this diploma will equip you with a firm grounding in the key areas of water technology, waste management and resource conservation, as well as pollution monitoring and control.

In your first year, you will be introduced to basic concepts of environmental science, engineering and technology with modules such as Fundamentals of Engineering Principles, Environmental Microbiology & Biotechnology and Hydraulics. You will also learn basic data analysis and technical drawing skills in the Data Analytics & Drafting module. From the second year onwards, you will learn in-depth modules in various aspects of environmental engineering and water technology, such as air and water quality monitoring & control, stormwater management, and closing the water loop.

In your final year, you will work on an environmental innovation & research project and go on a six-month internship. You can opt for hands-on learning opportunities at our Environmental & Water Technology Centre of Innovation (EWTCOI) and work alongside research engineers and scientists on industry-based projects.

What’s more, you will also learn more about emerging technologies such as Internet-of-Things (IoT) and 3D printing relating to environmental applications, thanks to our enhanced curriculum. You will get to apply what you have learnt in multi-disciplinary projects or hands-on activities such as operating drones for environmental monitoring. There will also be opportunities for you to showcase your skills in competitions such as WorldSkills Singapore, Singapore Junior Water Prize and Sembcorp Greenwave Competition. You will also gain additional skill certifications that will give you an edge in the industry.

FURTHER STUDIES
You can pursue a wide range of degree programmes offered by National University of Singapore, Nanyang Technological University, Singapore Institute of Technology, Singapore Management University, Singapore University of Technology and Design, and Singapore University of Social Sciences. These include degree courses in chemistry, civil engineering, environmental engineering and architecture.

You may enjoy exemption when you apply for related degree programmes at overseas universities, including:

Australia
- Murdoch University
- The University of Adelaide
- The University of Queensland

– The University of Western Australia
– University of New South Wales

United Kingdom
- Newcastle University
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CONTACT US
For the most up-to-date information on NP’s Diploma in Environmental & Water Technology, visit www.np.edu.sg/ewt

I am glad to have represented NP in the PUB Splash Lab Competition 2021, where we were asked to develop innovative solutions to combat climate change! I worked with my team to create a website for the public to access information on the Sungei Ulu Pandan learning trail during the pandemic.

Lee Suer Er
Diploma in Environmental & Water Technology, Year 2

Suer Er (second from right) and her teammates, Sophia Xing, Ian Lee and Madihah Bte Asaad won third prize in the PUB Splash Lab Competition 2021 (Innovation Solutions Category) for their project, Our Blue Garden, which allows users to experience the learning trails at Sungei Ulu Pandan on a digital platform.
OUR GRADUATES WITH THAT SOMETHING XTRA

"LSCT has provided me with extensive hands-on training and critical thinking skills, both of which are necessary to pursue a career in research."

Leow Yi Ming
Diploma in Molecular Biotechnology*, Class of 2011

Yi Ming was the first polytechnic graduate to receive the A*STAR National Science Scholarship to study neuroscience at University College London. She is currently pursuing a PhD in Brain & Cognitive Sciences at the Massachusetts Institute of Technology.

*subsumed under the Diploma in Biomedical Science

"The BMS course provided a firm foundation for me to understand the scientific background in clinical trial protocols. It played a significant role in deciding my career path and helped me secure my first two jobs at pharmaceutical MNCs."

Sylvia Chiang
Diploma in Biomedical Science, Class of 2007

As a Regional Process Control Manager at Novartis, Sylvia is responsible for the overarching process improvement and process control of clinical trial monitoring in the region.

"LSCT has equipped me with the relevant skills and knowledge to kickstart my career in biodiversity conservation. My internship deepened my learning about Singapore’s diverse biodiversity, which has driven me to pursue a career as a flora specialist to advocate for habitat and plant conservation."

Siti Zaleha Abdullah
Diploma in Landscape Design & Horticulture, Class of 2016

Zaleha is a floral specialist in Camphora Pte Ltd. Together with her team, she conducts environmental impact assessments, as well as manages plans to safeguard Singapore’s biodiversity.

"My years in NP were vibrant and enriching. The course provided me with strong pharmaceutical knowledge and allowed me to explore the pharmacy profession in different settings. I am grateful to my lecturers as their guidance has helped me to secure MOHH’s Healthcare Merit Award to pursue my dream course in NUS. In the future, I plan to take part in the National Collaborative Prescribing Programme and pursue the Doctor of Pharmacy programme."

Song Meow Ying
Diploma in Pharmacy Science*, Class of 2021

Meow Ying was a recipient of the Lee Kuan Yew Award and Ngpee Ann Polytechnic Outstanding Achievement Award. She is pursuing a degree in Pharmacy at the National University of Singapore.

*renamed as Diploma in Pharmaceutical Science

"During my internship, I got to apply fundamental process engineering concepts learned in school into large-scale process operations at Keppel’s Marina East Desalination plant. I went on to extend my learning beyond the classroom with an in-house research internship at the material science research lab. With its emphasis on individual excellence and group-based project management skills, CBE has equipped me with skills and knowledge that are both practical and flexible."

Tan Wei Xi
Diploma in Chemical & Biomolecular Engineering, Class of 2021

Wei Xi is a recipient of the NUS Merit Scholarship and is pursuing a degree in Chemical Engineering at National University of Singapore.

"My learning journey in NP has been a memorable and amazing experience! I am grateful to have been able to go on a Youth Expedition Project to the Philippines as well as take part in a variety of CCAs! Even when we transitioned to home-based learning during the pandemic, my EWT lecturers were there for me if I had questions or concerns. I hope to engineer sustainable solutions in the water industry in the future!"

Tan Shern Kai
Diploma in Environmental & Water Technology, Class of 2021

Shern Kai was awarded the Singapore Sustainability Scholarship to pursue a degree in Civil Engineering at Nanyang Technological University.

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FROM POLY TO MEDICAL SCHOOL
Since 2007, 26 NP graduates have made it to National University of Singapore’s Yong Loo Lin medical school and Nanyang Technological University’s Lee Kong Chian medical school.

DOCTORS AND TRAILBLAZERS
Dr Ron Ng and Dr Soong Junwei made history when they became the first polytechnic graduates to gain direct admission into a local medical school. Dr Ng and Dr Soong graduated with a Diploma in Biomedical Laboratory Technology* and a Diploma in Biotechnology* respectively. They subsequently applied to enter medical school at the National University of Singapore under a discretionary admissions exercise. Today, Dr Ng specialises in geriatrics while Dr Soong practises at Singapore General Hospital.

*Subsumed under the Diploma in Biomedical Science