**CAREER**

You will enjoy a wide range of careers in the veterinary and biomedical science industries upon graduation. You can become a laboratory biologist in a research institution or university laboratory, a veterinary bioscientist in an animal research facility or preclinical trial centre. Alternatively, you may choose to be a veterinary assistant in a veterinary clinic or animal hospital. With further education, you can even become a veterinarian!

You can also find job opportunities in animal theme parks (such as the Singapore Zoo, Night Safari, River Safari, Bird Park and Marine Life Park), equine establishments (such as the Bukit Timah Saddle Club), animal-related businesses (such as pet care companies), the government sector and animal welfare organisations such as the SPCA.

**FURTHER STUDIES**

You can pursue a wide range of degrees including biological science and biomedical science in local and overseas universities. These degrees will offer you career advancement in the area of life sciences. To become a veterinarian, you are required to enrol into veterinary medicine programmes such as those offered by universities in Australia, New Zealand, and the UK.

Other related areas include degrees in Animal Science, Zoology and Marine Biology from overseas universities. Murdoch University (Australia) offers our graduates a one-year exemption from their Bachelor of Science in Veterinary Biology & Doctor of Veterinary Medicine programme. The University of Sydney (Australia) also offers a one-year exemption from their Bachelor of Veterinary Biology & Doctor of Veterinary Medicine programme. Ross University School of Veterinary Medicine (St Kitts) offers our graduates direct entry into their accelerated Doctor of Veterinary Medicine programme.

You can also deepen your skills and further your career by enrolling in the following post-diploma courses offered by Ngee Ann Polytechnic:

- Advanced Diploma in Medical and Pharmaceutical Technology
- Specialist Diploma in Analytical Sciences*
- Specialist Diploma in Veterinary Clinical Practice*

* Offered under SkillsFuture Earn and Learn Programme

**ENTRY REQUIREMENTS**

**AGGREGATE TYPE ELR2B2-C**

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

<table>
<thead>
<tr>
<th>SUBJECT</th>
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<tr>
<td>Mathematics (Elementary/Additional)</td>
<td>1-6</td>
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<tr>
<td>Science (with Physics, Chemistry or Biology component)</td>
<td>1-6</td>
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<tr>
<td>or Biotechnology</td>
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<td>or Fundamentals of Electronics</td>
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<td>or Combined Science</td>
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<td>or Design &amp; Technology</td>
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<td>or Physical Science</td>
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<tr>
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</tbody>
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You must also fulfil the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

**CONTACT US**

For the most up-to-date information on NP’s Diploma in Veterinary Bioscience, log on to www.np.edu.sg/vbs

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**FURTHER STUDIES**

**DIPLOMA IN LANDSCAPE DESIGN & HORTICULTURE**

- The only polytechnic diploma that combines training in landscape design with plant science and horticulture
- Strong partnership with National Parks Board to offer practical outdoor lessons at the Singapore Botanic Gardens and Learning Park@Clementi Woods
- Broad-based curriculum opens doors to further studies in landscape architecture, botany and architecture
- Enjoy up to two years of exemption for related degree courses in several renowned overseas universities

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“I interned at the Singapore Zoo, and was exposed to many different animals like birds, reptiles and fish. I had the opportunity to do a combination of laboratory and field work, which gave me a deeper insight in wildlife medicine. I worked with veterinary technicians to run diagnostic tests and it was really interesting to learn about different animal anatomies.”

Tricia Chua
Diploma in Veterinary Bioscience, Class of 2016
Tricia topped her cohort and is currently pursuing Medicine at the NUS Yong Loo Lin School of Medicine.
WHAT THE COURSE IS ABOUT

Our City in a Garden

didn’t get its moniker by chance. You too can be the brains behind our green landscape! 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 National Parks Board, much of your practical training, field training and outdoor lessons will take place at the Singapore Botanic Gardens and other parks.

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 and turf management, genetics and breeding of plants, and hardscape and softscape designs in your second year.

In your final year, you will get to go for a 22-week internship that provides you with an opportunity to put your learning into practice in a work environment. You will also be able to undertake a project to apply your horticulture and plant science knowledge to develop innovative landscape designs or deepen your horticultural knowledge and skills.

In addition, this course will provide you with the opportunity to hone your horticultural and project management skills at the Learning Park@Clementi Woods and Singapore Botanic Gardens.

WHAT YOU WILL LEARN

YEAR 1
- CAD & Graphic Applications
- Chemistry
- Floristry & Interiorscapes
- Landscape Design Communication I
- Landscape Studio I – Design Fundamentals
- Plant Anatomy & Morphology
- Soil Science & Plant Nutrition
- Taxonomy & Plant Identification
- Urban Ecology & Conservation
- Career & Professional Preparation I
- Innovation Toolkit
- Sports & Wellness
- Communication and Contemporary Issues

YEAR 2
- Arboriculture
- Genetics & Plant Breeding
- Hardscape Design
- Horticulture & Turf Management
- Landscape Design Communication II
- Landscape Studio II – Design Process
- Plant Biochemistry & Physiology
- Plant Identification II
- Plant Pathology & Entomology
- Propagation & Nursery Management
- Softscape Design
- Career & Professional Preparation II
- Any two IS electives

YEAR 3
- Landscape Project Management
- Landscape Studio III – Independent Projects
- Leisure & Park Management
- Urban Horticulture Technology
- Any one project:
  - Landscape Design Track
  - Horticultural Research Track
  - Internship
  - World Issues: A Singapore Perspective
- Any one IS elective

* Interdisciplinary Studies (IS) modules are taken on top of core discipline modules and account for up to 18 hours of the course curriculum. They comprise prescribed modules in areas such as communication, innovation and cultural intelligence as well as elective modules in the categories of arts & humanities, business, design and science & technology.

WHAT YOU WILL LEARN

YEAR 1
- CAD & Graphic Applications
- Chemistry
- Floristry & Interiorscapes
- Landscape Design Communication I
- Landscape Studio I – Design Fundamentals
- Plant Anatomy & Morphology
- Soil Science & Plant Nutrition
- Taxonomy & Plant Identification
- Urban Ecology & Conservation
- Career & Professional Preparation I
- Innovation Toolkit
- Sports & Wellness
- Communication and Contemporary Issues

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- Genetics & Plant Breeding
- Hardscape Design
- Horticulture & Turf Management
- Landscape Design Communication II
- Landscape Studio II – Design Process
- Plant Biochemistry & Physiology
- Plant Identification II
- Plant Pathology & Entomology
- Propagation & Nursery Management
- Softscape Design
- Career & Professional Preparation II
- Any two IS electives

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- Landscape Project Management
- Landscape Studio III – Independent Projects
- Leisure & Park Management
- Urban Horticulture Technology
- Any one project:
  - Landscape Design Track
  - Horticultural Research Track
  - Internship
  - World Issues: A Singapore Perspective
- Any one IS elective

FURTHER STUDIES

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

You may pursue a related degree course (such as architecture, landscape architecture, business, horticulture, plant science, botany and arboriculture) at the following universities and enjoy up to two years of exemption:
- University of Melbourne (Australia)
- University of New South Wales (Australia)
- University of Queensland (Australia)
- Lincoln University (New Zealand)
- University of Manchester (UK)
- University of Georgia (US)

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

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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You must have also sat for a Science or Art / Higher Art or Design & Technology or Food & Nutrition or a relevant OSIE / Applied Subject and fulfil the aggregate computation requirements. * Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

CONTACT US

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

“My internship at Kok Fah Technology Farm

Technology Farm broadened my knowledge of agriculture with its comprehensive programme and introduced me to the various global agricultural systems and technologies. This allowed me to further establish my passion and gain a better understanding of my career choices in the field of agriculture.”

Goh Chin Yeap
Third-year LDH student who interned at Kok Fah Technology Farm
7 diplomas, one common goal

No matter where your interest lies, our seven diplomas aim to prepare you for the world of science and fuel your passion for discovery.

**Life Sciences**
- Diploma in Biomedical Science
  - An established and recognised biomedical science programme
  - Specialisation options in Biomedical Research or Clinical Laboratory Technology
  - Final-year projects and internships with renowned research institutions and organisations

**Chemical & Environmental Technology**
- Diploma in Chemical & Biomolecular Engineering
  - Specialisation options in General Chemical Engineering or Pharma & Biopharmaceuticals open doors to careers in fast-growing industries
  - Internship opportunities at internationally recognised companies or research facilities

**Diploma in Veterinary Bioscience**
- A distinctive course that combines bioscience and veterinary science
  - Learn how to care for, handle and manage animals

**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

**Diploma in Molecular Biotechnology**
- Widen your career choices with the Biopharmaceuticals, Forensic Science or Food Science specialisation options
- Choose from exciting Year 2 electives in Aquaculture & Marine Biology, Food Science & Technology, Forensic Science and Biopharmaceutical Processing

**Diploma in Pharmacy Science**
- Exclusive one-year Integrated Pharmacy Training Programme with National University Hospital’s (NUH) Pharmacy Department
- Broad-based training in pharmacy practice and pharmaceutical sciences

**Looking for a school**
that offers a robust education in life sciences and chemical technology? Here are seven reasons why Ngee Ann Polytechnic’s School of Life Sciences & Chemical Technology (LSCT) is one of the most reputable institutions in Singapore.

**Top lecturers**
All of our lecturers hold postgraduate qualifications, and are well equipped with rich research and industry experience.

**Unique partnerships**
We have close links with organisations such as National University Hospital (NUH), National Parks Board and PUB (Singapore’s National Water Agency). Our strong partnerships will provide you with lots of opportunities to learn in a real-world setting.

**Global exposure**
You will gain a global perspective by participating in various overseas internships and immersion programmes to places such as Boston, London, Dublin, Brisbane, Shanghai and Seoul.

**Mentorships**
With our Industry Mentors Network and Education & Career Guidance programmes, you can count on industry practitioners as your mentors and lecturers as your advisers. They will offer real insights about the industry and coach you in your career choice.

**The edge in R&D**
Besides having one of the most extensive polytechnic research programmes in Singapore, we are also known for our expertise in areas such as aquatic science, biocatalysis, cancer biology, fermentation, molecular diagnostics and sky-rise greening. Our edge will give you a head start in pursuing research work in these fields!

**Proven track record**
Our graduates have completed their degrees at top universities around the world. On local shores, 12 have been accepted into the National University of Singapore’s Yong Loo Lin School of Medicine and one into Nanyang Technological University’s Lee Kong Chian School of Medicine. Some have even clinched prestigious PSC, PUB and A*STAR scholarships.

**More options**
Thanks to our broad-based curriculum and specialisation options, you can pursue a wide range of careers and degrees after graduation.

Find us online at [www.np.edu.sg/lsct](http://www.np.edu.sg/lsct)
OUR GRADUATES WITH THAT SOMETHING

FROM POLY TO MEDICAL SCHOOL

Since 2007, 12 NP graduates have made it to the National University of Singapore’s Yong Loo Lin medical school. Last year, we also produced our first NP graduate to enter Nanyang Technological University’s Lee Kong Chian medical school.

ENVIRONMENTAL CHAMPIONS

“I hope to continue to work on outreach projects to inspire youths to be more aware of environmental issues.”

Tan Sok Hian
Diploma in Environmental & Water Technology, Class of 2015

Sok Hian received the PUB Diploma Scholarship and won the HSBC/NYAA Youth Environmental Award for her contributions to environmental protection. Sok Hian is currently pursuing a degree in Civil Engineering at Imperial College London on a National Environmental & Water Scholarship.

AN ADVOCATE FOR ANIMALS

“I aspire to become a research veterinarian and work with animal models to develop new drugs and vaccines, and uphold the high standards of animal welfare.”

Kristine Tan
Diploma in Veterinary Bioscience, Class of 2014

Kristine received an A*STAR scholarship to pursue Veterinary Medicine at the University of Glasgow, followed by a Doctorate in animal research.