

# SCHOOL OF CHEMICAL & LIFE SCIENCES



## EXPLORING NEW HORIZONS

Fascinated by the mysteries of life? Ever dreamt of creating new drugs or cutting-edge chemicals to benefit mankind? Then, let your passion and curiosity for science take flight at our School of Chemical & Life Sciences (SCL).

Choose from a diverse selection of exciting courses that cover a wide range of scientific disciplines, and learn how to make vaccines, pharmaceutical capsules and even solar panels. At SCL, you'll be trained to become a versatile and highly skilled technologist, well sought-after by the world's leading industry players.

### Why Chemical & Life Sciences?

- Be at the cutting-edge of science and exciting technologies that's changing the world we live in.
- Attain valuable skills and knowledge that will place you in high demand in the high-growth biomedical, pharmaceutical, alternative energy and food industries.

### Why SCL?

- Learn new technologies that will empower you to excel in your field.
- Benefit from the latest high-tech life sciences facilities, with extensive hands-on training in state-of-the-art and industry-standard laboratories.
- Work with leading biotech, pharmaceutical, chemical and food companies.
- Gain valuable practical experiences in our Bioinnovation Centre, Teaching Drug Store, Food Science Pilot Plant and Application Labs, and Chemical Pilot Plant on campus.

### Industry-linked

Benefit from our strong links to key industry partners including:

- bioMérieux Pte Ltd
- Eu Yan Sang International Limited
- ExxonMobil Asia Pacific Pte Ltd
- Hyflux Ltd
- Pall Filtration Pte Ltd
- Pfizer Asia Pacific
- Schering-Plough (Singapore)
- Shell Eastern Petroleum
- Sin Hwa Dee Foodstuff Industries Pte Ltd
- Yokogawa Engineering Asia

### Minimum Entry Requirements

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|---|-------------|
| a) English Language                     | Grade 1 - 7 |
| b) Elementary or Additional Mathematics | Grade 1 - 6 |
| c) A relevant Science subject           | Grade 1 - 6 |

### Enquiry Hotlines

Please contact us at **6550 0509/0511/0512** for enquiries on the following courses:

- Diploma in Biologics & Process Technology
- Diploma in Chemical & Green Technology
- Diploma in Chemical & Pharmaceutical Technology

Please call **6550 1500** for enquiries on the following courses:

- Diploma in Food Science & Nutrition
- Diploma in Medicinal Chemistry
- Diploma in Molecular Biotechnology
- Diploma in Pharmaceutical Sciences

You can also visit [www.nyp.edu.sg/scl](http://www.nyp.edu.sg/scl) for more information.

JAE CODE:  
**C74**

# DIPLOMA IN MOLECULAR BIOTECHNOLOGY

Embark on a marvellous journey of discovery with NYP's Diploma in Molecular Biotechnology. You'll dive into the world of life sciences and technology, where you will study life sciences at a microscopic and molecular level.

Gain a strong foundation in the biomedical sciences, with extensive hands-on laboratory experience and exposure to the rapid developments in the dynamic Life Sciences industry. We will also nurture your entrepreneurial instincts and innovative mindset, so that you will have the ability to think creatively across the various disciplines of the Biomedical Sciences.

## This fits me to a T!

This is the course for you, if you're:

- An aspiring scientist with a curious mind and a desire for discovery
- Interested to learn about genes, diseases, bacteria, viruses, human immune systems and drug development
- Keen to play an important role in helping doctors diagnose and confirm diseases, so that patients can receive the best treatments possible

## What will I learn?

- A wide range of scientific modules, including chemistry, cell biology, microbiology, biochemistry, molecular biology, blood banking, forensics and drug development
- Current trends and techniques in molecular biotechnology through extensive training in laboratory techniques with the latest equipment, and through industry research projects
- About the commercialisation of biotechnology and how to turn your business ideas into reality
- About different working environments, in Singapore and overseas, through industrial attachments

## I want a great career!

You can have your pick of excellent career opportunities in:

- Research & Development Laboratories
- Hospital Clinical Laboratories
- Drug-manufacturing Companies
- Sales and Marketing for Leading Drug, Biotech and Biomedical Devices Companies

## Uni, here I come!

Pursue further studies with advanced standing at reputable local and overseas universities, including:

### Singapore

- National University of Singapore
- Nanyang Technological University

### Australia

- Australian National University
- University of Melbourne
- University of New South Wales

- Murdoch University
- University of Western Australia
- University of Queensland

### Europe

- University of Manchester
- University of Liverpool

### United States

- State University of New York, Buffalo

"Only one word can describe my three years in NYP – AWESOME! My NYP education gave me a wide variety of further study choices upon graduation, be it local or overseas. In NYP, the lecturers are very friendly and helpful. The lessons are challenging, yet fun, pushing us to think out of the box. I also gained valuable research skills and work experience through my internship at the National Cancer Centre Singapore. All these factors have given me a good foundation in the Life Sciences, helping me to gain a place in university."

### Lua Min Feng

Diploma in Molecular Biotechnology  
Class of 2010

Undergraduate (direct entry into second year)  
Bachelor of Science (Honours) in Biological Sciences  
Nanyang Technological University

