• Biologics & Process Technology
• Chemical & Pharmaceutical Technology
• Food Science & Nutrition

• Medicinal Chemistry
• Molecular Biotechnology
• Pharmaceutical Science
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School of
CHEMICAL & LIFE SCIENCES

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For more information on the Diploma courses offered at the School of Chemical & Life Sciences, please call 6550 1500 or visit www.nyp.edu.sg/SCL

Need more information on application procedures? Please visit www.nyp.edu.sg or call 6455 0500.
Pave the Way to the Frontiers of Science
Our diploma courses will empower you with the essential “work-ready” knowledge and skills to become a versatile and proficient technologist.

Why Choose SCL?

BENEFIT FROM EXTENSIVE HANDS-ON CURRICULA

Receive extensive hands-on training in state-of-the-art and industry-standard pilot plants and laboratories.

LEARN WITH CUTTING-EDGE TECHNOLOGY

Gain valuable practical experience at our Centre for Functional Food & Human Nutrition, Food Safety Centre, Secondary Pharmaceutical Technology Centre, and NYP-PALL Centre of Excellence in Biologics Manufacturing Technologies.
Work with local and overseas biotechnological, pharmaceutical, chemical and food companies during your internship and for your final year project.
Your SCL Journey

Enrich your student experience by participating in competitions, community projects, internship programmes and overseas study trips

From Freshmen ...

BE INNOVATIVE & ENTERPRISING

- Singapore National Crystal Growing Challenge 2018 – We won the Largest Single Crystal Award
- LKCMedicine Anatomy Challenge 2018 – We were the 1st runner-up during the team challenge

BE SOCIALLY RESPONSIBLE

- Toy Buffet 2018 – About 3,000 kids joined us for a year-end celebration of fun and feasting, where they were gifted with toys from corporate sponsors
Overseas Internship Programmes – Expand your horizons by working in various research fields in countries such as Australia and Japan

Bintan Educational Camp 2018 – One key task was to build a water delivery system, and a hydroponics garden at an orphanage

BE GLOBALLY CONNECTED
Graduates’ Stories
Students from the Class of 2018 share their experiences

Her Bold Step Forward
Zin Yi grabbed various learning opportunities, like the extended internship and exchange programme in Okinawa, during her three years of studies in NYP. “The journey has been amazing and rewarding as it enabled me to explore my passion and discover my potential. I looked forward to every lesson in school because of the supportive lecturers and fun-loving classmates.”

From PFP to Diploma with Merit
Subash was pleased to discover the unique combination of applied science and chemical engineering in his course, and he really loved it! Skipping the O Levels did not hinder him at all. He excelled and won Best Project for his internship at the Singapore Refining Company. “Don’t ever think you will be disadvantaged. If you have the passion, and are willing to work hard, you will definitely do well!”

Twins’ Power
They love to eat and are adventurous with food. Angeline and Angela aced their Diploma in Food Science & Nutrition course. They consistently made it to the Director’s List, and graduated with diplomas with merit together! Both also took up tchoukball and represented NYP in many competitions, clinching 2nd runner-up at the Collegiate Tchoukball Cup 2018! Of the different challenges, they shared: “Not all days were good, but not all days were bad either; guess these are the necessary ingredients for a deliciously ‘egg-citing’ NYP journey.”
**Project Heroine**
Azlyn was attached to NUS in her final year of studies, where she applied her knowledge in nanochemistry to solve medical challenges. It involved making nanohydrogels and using them as an effective delivery mode for antibacterial medicine. She received the Outstanding Project Work award, Oral Presentation Distinction Award at the Young Scientists’ Symposium, and the Calyon Creativity Award. “Hard work and learning from failure are the pills to success. Always strive for improvement, not perfection.”

**Brain & Brawn**
The founder of NYP’s Strongman Club, Jia Xing thrives on his hobby of weight lifting and exercise – and has won several strongman competitions. But he’s not all brawn. He’s made it to the Director’s List multiple times, too. The ex-PFP student did so well at his internship that he’s been offered a full time job by the company, as well as places at both Singapore Institute of Technology and Nanyang Technological University.

**Being Independent**
To pursue her Diploma in Pharmaceutical Science, Hannah had to move away from her family to live in Singapore three years ago. Besides helming NYP NYAA Students’ Club as Vice President, she also excelled in her CCA and received a National Youth Achievement Award (Gold Award) from President Halimah in 2017. Her all-rounder attributes, leadership and resilience were valued by the medical device company that recruited her as a sales and marking executive even before she graduated. Looking back, Hannah urges her juniors to never give up and always stay humble in their own adventures.

**NURUL AZLYN BTE MOHD NOR**
Diploma in Medicinal Chemistry

**TEE JIA XING**
Diploma in Molecular Biotechnology

**HO ZHU IM, HANNAH**
Diploma in Pharmaceutical Science
Combining biological and chemical sciences with engineering concepts, this course is the only comprehensive standalone diploma in Singapore that focuses on biologics technology and emphasises biopharmaceutical technologies.

You will learn to develop biopharmaceutical products; work with DNA, proteins and cells; and simulate, operate and optimise chemical processes in fully equipped high-tech biologics laboratories.
YEAR 1
CORE MODULES
♦ Algebra
♦ Chemical Engineering Principles
♦ Inorganic & Physical Chemistry
♦ Communication Skills
♦ Chemical Plant Equipment & Systems
♦ EHS for a Sustainable Economy
♦ Calculus
♦ Introduction to Biologics Manufacturing
♦ Organic Chemistry
♦ Process Engineering Fundamentals
♦ Flow Diagrams & Material Selection
♦ Fundamentals of Innovation & Enterprise
♦ General Studies

YEAR 2
CORE MODULES
♦ Probability & Statistics
♦ Bioprocess Applications
♦ Fluid Mechanics & Equipment
♦ Analytical Chemistry
♦ Molecular & Cell Biology
♦ Basic Process Operations
♦ Differential Equations & Series
♦ Process Safety
♦ Heat & Mass Transfer
♦ Thermodynamics
♦ Process Control & Automation
♦ Process Integration Project
♦ General Studies

YEAR 3
CORE MODULES
♦ Reactor Systems
♦ Process Operations & Optimisation
♦ Professional & Interpersonal Communication Skills
♦ Semestral Full-Time Project
♦ Internship Programme
♦ General Studies

ELECTIVE MODULES (Choose three)
Biopharmaceutical Technology Electives
♦ Biologics Processes
♦ Biologics Purification
♦ Analytical Biochemistry
♦ Quality Systems & Good Manufacturing Practice

Process Technology Electives
♦ Primary Pharmaceutical Processes
♦ Secondary Pharmaceutical Processes
♦ Petrochemical Processes
♦ Specialty Chemicals
♦ Advanced Instrumentation & Control
**DID YOU KNOW?**

Biologics are medicinal products made from living cells such as proteins and hormones. An example is Cervarix, a vaccine used to prevent cervical cancer.

**BEST CAREER CHOICES!**
Look forward to a dynamic and rewarding career in:
- Biopharmaceuticals
- Pharmaceuticals
- Quality control & assurance
- Research & development
- Chemical process design
- Chemical testing

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"I was fortunate to be among the pilot batch of students who went on the 31-week extended internship programme at Novartis. It meant that I could learn new things on a much larger scale and there was more time to gain hands-on experience as I operated different types of equipment such as bioreactors, centrifuges and depth filters. The longer, more comprehensive internship also made it easier for me to get a full-time job after I graduated.”

**PHYLLIS LOH HUI YI**
Manufacturing Biotechnologist, Novartis
Diploma in Biologics & Process Technology
Class of 2016
Aspire to tackle the world’s mounting energy, environmental and health challenges? Gain mastery and become a highly skilled chemical products specialist with knowledge of chemistry, biotechnology, mathematics, chemical engineering concepts, IT and people skills through this course. You will also attain valuable practical know-how and gain expertise working in the state-of-the-art Chemical and Pharmaceutical Pilot Plants and fully equipped laboratories.

Driven by a fascination with chemistry, you are interested in how chemical compounds can be transformed into useful everyday products and life-saving medicines. You enjoy a hands-on approach to solving problems and aspire to be part of the chemical process industry.
<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
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<tbody>
<tr>
<td><strong>CORE MODULES</strong></td>
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<tr>
<td>♦ Algebra</td>
<td>♦ Probability &amp; Statistics</td>
<td>♦ Reactor Systems</td>
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<tr>
<td>♦ Chemical Engineering Principles</td>
<td>♦ Bioprocess Applications</td>
<td>♦ Process Operations &amp; Optimisation</td>
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<tr>
<td>♦ Inorganic &amp; Physical Chemistry</td>
<td>♦ Fluid Mechanics &amp; Equipment</td>
<td>♦ Professional &amp; Interpersonal Communication Skills</td>
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<tr>
<td>♦ Communication Skills</td>
<td>♦ Analytical Chemistry</td>
<td>♦ Semestral Full-time Project</td>
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<tr>
<td>♦ Chemical Plant Equipment &amp; Systems</td>
<td>♦ Water &amp; Wastewater Engineering</td>
<td>♦ Internship Programme</td>
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<tr>
<td>♦ EHS for a Sustainable Economy</td>
<td>♦ Basic Process Operations</td>
<td>♦ General Studies</td>
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<tr>
<td>♦ Calculus</td>
<td>♦ Differential Equations &amp; Series</td>
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<tr>
<td>♦ Environmental Sustainability</td>
<td>♦ Process Safety</td>
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<tr>
<td>♦ Organic Chemistry</td>
<td>♦ Heat &amp; Mass Transfer</td>
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<td>♦ Process Engineering Fundamentals</td>
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<td>♦ Flow Diagrams &amp; Material Selection</td>
<td>♦ Process Control &amp; Automation</td>
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<tr>
<td>♦ Fundamentals of Innovation &amp; Enterprise</td>
<td>♦ Process Integration Project</td>
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<td>♦ General Studies</td>
<td>♦ General Studies</td>
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</table>

**ELECTIVE MODULES (Choose three)**

**Petrochemical Technology Electives**
- ♦ Petrochemical Processes
- ♦ Specialty Chemicals
- ♦ Advanced Instrumentation & Control

**Pharmaceutical Technology Electives**
- ♦ Primary Pharmaceutical Processes
- ♦ Secondary Pharmaceutical Processes
- ♦ Quality Systems & Good Manufacturing Practice
- ♦ Biologics Processes

**Common Electives**
- ♦ Advanced Water Technology
- ♦ Energy Efficiency & Optimization
- ♦ Green Technologies for Pollution Control
I deepened my skills in chemical and pharmaceutical technology, and I feel better prepared to work as a professional. I was also able to pursue my interest in track and field at NYP, which has helped me excel in various areas of my life. Thank you NYP and SCL!”

JOHN TAN KENG SIONG
Process Technician, Croda Singapore Pte Ltd (under the SkillsFuture Earn and Learn Programme)
Diploma in Chemical & Pharmaceutical Technology
Class of 2016

BEST CAREER CHOICES!
Look forward to a dynamic and rewarding career in:
• Oil & gas industry
• Pharmaceutical industry
• Specialty chemicals industry
• Process design & product development
• Environmental technical services

DID YOU KNOW?
Tropical rainforests are the world’s largest pharmacy as many forest plants contain bioactive compounds that can be chemically processed and used as medicines.
Recognised by the International Union of Food Science and Technology (IUFoST), this course prepares you for the popular food science and nutrition industry with a strong foundation in food safety and quality, food chemistry and microbiology, food process technology and food ingredient applications.

You will gain an in-depth understanding of nutrition science, nutrition formulation in food preparation, nutrition labelling requirements and nutrition management. You will also discover innovations in product development, marketing and branding techniques, as well as the economics of the food industry.
<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>CORE MODULES</th>
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<tbody>
<tr>
<td>• Introduction to Food Science</td>
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<tr>
<td>• Mathematics for Life Sciences</td>
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<tr>
<td>• Cell Biology</td>
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<tr>
<td>• Physical &amp; Inorganic Chemistry</td>
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<tr>
<td>• Food Microbiology I</td>
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<tr>
<td>• Biochemistry</td>
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<td>• Organic Chemistry</td>
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<td>• Life Span Nutrition</td>
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<td>• Unit Operations in Food Processing</td>
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<td>• Project</td>
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<td>• General Studies</td>
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<table>
<thead>
<tr>
<th>YEAR 2</th>
<th>CORE MODULES</th>
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<tbody>
<tr>
<td>• Biostatistics</td>
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<tr>
<td>• Food Chemistry</td>
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<tr>
<td>• Food Processing &amp; Preservation</td>
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<td>• Food Ingredients</td>
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<td>• Analytical Methods in Food Science</td>
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<tr>
<td>• Food Microbiology II</td>
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<tr>
<td>• Food Safety &amp; Quality Management</td>
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<tr>
<td>• Anatomy &amp; Physiology</td>
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<td>• General Studies</td>
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**ELECTIVE MODULES (Choose two)**
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<tbody>
<tr>
<td>• Food Packaging</td>
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<td>• Community Nutrition &amp; Health Promotion</td>
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<td>• Food Service Management</td>
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<td>• General Psychology</td>
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<table>
<thead>
<tr>
<th>YEAR 3</th>
<th>CORE MODULES</th>
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</thead>
<tbody>
<tr>
<td>• Career Preparatory Skills</td>
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<tr>
<td>• Product Development &amp; Sensory Evaluation</td>
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<tr>
<td>• Nutrition &amp; Diseases</td>
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<tr>
<td>• Food Business &amp; Marketing</td>
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<tr>
<td>• Internship Programme</td>
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<td>• Final Year Project</td>
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<td>• General Studies</td>
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**ELECTIVE MODULES (Choose one)**
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<tbody>
<tr>
<td>• Forensic Food Science</td>
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<tr>
<td>• Nutrition &amp; Pharmacology</td>
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</tbody>
</table>
The Diploma in Food Science & Nutrition equips students with industry-ready experience by giving us opportunities to intern at local or multinational companies. My internship at Tate & Lyle allowed me to work in the exciting field of product development, where I gained invaluable workplace skills. I find topics covered in the curriculum, such as food safety, food labelling and nutrition, not only useful for my work, but also applicable in my daily life."

CHENG HUI YUAN
R&D/QC Executive, Lim Chee Guan Food Industry Pte Ltd
Diploma in Food Science & Nutrition
Class of 2017

BEST CAREER CHOICES!
Look forward to a dynamic and rewarding career in:

- Food product development & sensory evaluation
- Dietetics & nutrition
- Public health & community nutrition
- Market & technological innovation
- Food safety & quality assurance

DID YOU KNOW?
Our students made their mark in the F&B industry when they swept the top three prizes in the Monde Nissin Quorn Nugget Sauce Competition 2018.

"The Diploma in Food Science & Nutrition equips students with industry-ready experience by giving us opportunities to intern at local or multinational companies. My internship at Tate & Lyle allowed me to work in the exciting field of product development, where I gained invaluable workplace skills. I find topics covered in the curriculum, such as food safety, food labelling and nutrition, not only useful for my work, but also applicable in my daily life."

CHENG HUI YUAN
R&D/QC Executive, Lim Chee Guan Food Industry Pte Ltd
Diploma in Food Science & Nutrition
Class of 2017
Discover, design, synthesise and analyse chemical and pharmaceutical compounds. With this course, gain industry-relevant knowledge and skills through study in a wide range of chemistry modules and extensive training in laboratories with state-of-the-art equipment.

You will also work on research projects that are done in partnership with the industry, and be updated on the current trends and techniques in chemistry.
COURSE CURRICULUM

YEAR 1
CORE MODULES
♦ Introduction to Medicinal Chemistry
♦ Mathematics for Life Sciences
♦ Inorganic Chemistry
♦ Physical Chemistry
♦ Good Laboratory Practice & Quality Assurance
♦ Cell Biology for Medicinal Chemistry
♦ Biochemistry
♦ Organic Chemistry I
♦ Microbiology
♦ Analytical Chemistry I
♦ General Studies

YEAR 2
CORE MODULES
♦ Biostatistics
♦ Marketing for Life Sciences
♦ Medicinal Synthesis & Purification Techniques
♦ Spectroscopic Techniques for Drug Analysis
♦ Medicinal Chemistry I
♦ Drug Development
♦ Research Writing & Conference Series
♦ Organic Chemistry II
♦ Natural Product Chemistry
♦ Coordination & Bioinorganic Chemistry
♦ General Studies

YEAR 3
CORE MODULES
♦ Career Preparatory Skills
♦ Bioenterprise & Bioinnovation
♦ Organic Chemistry III
♦ Medicinal Chemistry II
♦ Analytical Chemistry II
♦ Internship Programme
♦ Final Year Project
♦ General Studies
This course has moulded me into an independent individual as well as a strong team player with the ability to move in a fast-paced working environment. My journey in NYP has also equipped me with the relevant skills required for my role as a product researcher. I am grateful to my lecturers and friends for making learning at SCL exciting and memorable.”

CAYCE NG CHING YONG
Product Researcher, Procter & Gamble
Diploma in Medicinal Chemistry
Class of 2018

BEST CAREER CHOICES!
Look forward to a dynamic and rewarding career in:
- Research & development
- Chemical & pharmaceutical analysis
- Quality assurance & quality control
- Chemical & pharmaceutical formulation and development
- Sales & marketing in chemical & pharmaceutical companies

DID YOU KNOW?
Venoms can be developed into useful medicines to cure a wide array of diseases and medical conditions such as cancer and diabetes.
Molecular Biotechnology
Discover and Transform Life

Explore the current trends and techniques in molecular biotechnology. Opt for a specialisation in Biomedical Sciences where you will learn to conduct laboratory tests and analyses to help doctors diagnose diseases, or stay on the General Track to delve deeper into research and development and discover new diseases and treatments.

Your entrepreneurial instincts and innovative mindset will also be nurtured. By learning the ropes of biotechnology commercialisation, you can turn your business ideas into reality.

Why is this for me?

You want to learn more about the intricacies of the human body such as genes, the immune system, and how diseases, bacteria and viruses affect it. You aspire to be a scientist, have a curious mind and a desire for discovery, and are keen to play an important role in helping doctors diagnose diseases.
### COURSE CURRICULUM

#### YEAR 1
**CORE MODULES**
- Introduction to Molecular Biotechnology
- Mathematics for Life Sciences
- Cell Biology & Genetics
- Physical & Inorganic Chemistry
- Microbiology
- Biochemistry
- Organic Chemistry
- Human Biology
- Principles of Immunology
- General Studies

#### YEAR 2
**CORE MODULES**
- Biostatistics
- Molecular Biology
- Molecular Genetics
- Medical Microbiology
- Marketing for Life Sciences
- General Studies

**Specialisation (Choose one)**

**Molecular Biotechnology Specialisation**
- Cell & Tissue Culture Technology
- Analytical Biochemistry
- Industrial Microbiology
- Drug Discovery & Development
- Protein Technology

**Biomedical Sciences Specialisation**
- Haematology
- Blood Banking
- Molecular Diagnostics & Histopathology
- Clinical Chemistry & Instrumentation
- Quality Management in Laboratory

#### YEAR 3
**CORE MODULES**
- Bioenterprise & Bioinnovation
- Career Preparatory Skills
- Applied Immunology
- Extended Internship Programme
- Final Year Project
- General Studies

**Specialisation (Choose one)**

**Molecular Biotechnology Specialisation**
- Functional Genomics
- Proteomics

**Biomedical Sciences Specialisation**
- Cell & Tissue Culture Technology
- Analytical Biochemistry for Clinical Sciences
The most fulfilling and rewarding experience I had in SCL was having the chance to do local and overseas attachments for my internship, thus learning two different technical skill sets from both the research and diagnostic sectors. The journey in SCL not only equipped me with the relevant skills required in this industry, but also greatly helped in my character development.

PANG SHI MIN
Assistant Laboratory Technologist, Khoo Teck Puat Hospital
Diploma in Molecular Biotechnology
Class of 2015

BEST CAREER CHOICES!
Look forward to a dynamic and rewarding career in:
• Research & development in life sciences laboratories
• Clinical diagnosis in hospitals & private clinical laboratories
• Sales & marketing in leading biotech & biomedical device companies

DID YOU KNOW?
A gene that could cause obesity has been discovered. Suppressing this gene could prevent fat accumulation, and reduce the risk of heart disease and diabetes.

The most fulfilling and rewarding experience I had in SCL was having the chance to do local and overseas attachments for my internship, thus learning two different technical skill sets from both the research and diagnostic sectors. The journey in SCL not only equipped me with the relevant skills required in this industry, but also greatly helped in my character development.”

PANG SHI MIN
Assistant Laboratory Technologist, Khoo Teck Puat Hospital
Diploma in Molecular Biotechnology
Class of 2015
Pharmaceutical Science
Make a Difference with the Use of Modern Medicine

Developed with various healthcare clusters, including the National Healthcare Group, Singapore Health Services and Pharmaceutical Society of Singapore, this course effectively prepares you for rewarding careers in various healthcare industries.

You will be equipped with a solid foundation in pharmaceutical sciences and related areas such as clinical trials and pharmaceutical operations. You will also be trained in pharmacology and pharmacotherapy – a skill highly valued in a pharmacy – to provide high-quality healthcare.

You are fascinated by how medicines work in the human body and have a strong desire to help others combat illnesses through the correct use of medication.
## YEAR 1
### CORE MODULES
- Introduction to Pharmaceutical Sciences
- Mathematics for Life Sciences
- Physical & Inorganic Chemistry
- Cell Biology
- Good Dispensing Practice
- Human Biology
- Biochemistry
- Organic Chemistry
- Microbiology
- Drug Delivery System
- General Studies

## YEAR 2
### CORE MODULES
- Biostatistics
- Pathology
- Infectious Disease and Immunology
- Pharmacology I
- Complementary & Alternative Modalities
- Pharmacotherapy I
- Pharmaceutical Research & Presentation
- General Studies

### Specialisation (Choose one)
**Pharmaceutical Practice Specialisation**
- Pharmaceutical Manufacturing Technology
- Medicinal Chemistry
- Pharmacy Practice

**Clinical Trials Specialisation**
- Good Clinical Practice & Research Ethics
- Principles of Clinical Trials
- Clinical Laboratory I

## YEAR 3
### CORE MODULES
- Marketing & Essential Career Skills
- Pharmacology II
- Pharmacotherapy II
- Work Based Learning Program
- General Studies

### Specialisation (Choose one)
**Pharmaceutical Practice Specialisation**
- Pharmaceutical Compounding
- Pharmacy Management & Ethics in Healthcare

**Clinical Trials Specialisation**
- Clinical Research Management
- Clinical Laboratory II
BEST CAREER CHOICES!
Look forward to a dynamic and rewarding career in:

- Hospital, community & retail pharmacies
- Clinical trial units & clinical research organisations
- Drug regulatory authorities
- Sales & marketing departments of pharmaceutical companies

DID YOU KNOW?
Coca-Cola was initially developed by pharmacists in 1886 to help cure headaches.

"NYP helped me build a solid foundation and steered me in the right direction for my career. The course was carefully structured to ensure we achieved competency in an interesting manner, with focus on hands-on learning. I’ll always be grateful to my SCL lecturers who never failed to encourage and guide me throughout the three years."

MICHELLE FONG
Pharmacist, KK Women’s and Children’s Hospital
Diploma in Pharmaceutical Science
Class of 2011
Our graduates have gone on to study at local and top overseas universities

LOCAL UNIVERSITIES
- Nanyang Technological University
- National University of Singapore
- Singapore Institute of Technology

OVERSEAS UNIVERSITIES
- Australian National University
- Imperial College London
- University of Edinburgh
- University of Melbourne
- University of New South Wales
- University of Nottingham
- University of Queensland

“I am very thankful for my NYP experience as a Medicinal Chemistry Diploma student. Over the past three years, I have learnt various chemistry knowledge and skills in depth. I also acquired numerous transferable skills such as teamwork, self-motivation and time management. Such exposure prepared me well for my internship and provided my peers and I with a headstart at NTU. Furthermore, the Chemistry lecturers were very patient in clearing our doubts, and have guided us along each step of the way, providing constructive feedback and support whenever we needed.”

VALENCIA LEE TING TING
Diploma in Medicinal Chemistry
Class of 2018
Minimum Entry Requirements

Applicants for the diploma courses must have obtained the following minimum GCE O-Level results taken at not more than two sittings of the Singapore-Cambridge GCE O-Level Examination. The minimum GCE O-Level entry requirements for the courses under the EAE, JAE and DAE are:

The minimum GCE N-Level entry requirements for the courses under the PFP are:

ELMAB3 1 RAW AGGREGATE SCORE (EXCLUDING CCA BONUS POINTS) ≤ 12

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>GRADE</th>
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<tbody>
<tr>
<td>English Language Syllabus A</td>
<td>3</td>
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<tr>
<td>Mathematics (Syllabus A/Additional)</td>
<td>3</td>
</tr>
<tr>
<td>One of the following relevant subjects:</td>
<td>3</td>
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<tr>
<td>• Science (Chemistry/Biology)</td>
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<tr>
<td>• Science (Physics/Biology)</td>
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<tr>
<td>• Science (Physics/Chemistry)</td>
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<tr>
<td>• Food &amp; Nutrition</td>
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<tr>
<td>• Design &amp; Technology</td>
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<tr>
<td>Any two other subjects excluding CCA</td>
<td>3</td>
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</table>

1 On the day of the release of the GCE O-Level examination results, Sec 4N(A) students who obtained an ELMAB3 (English, Maths, Best 3 Subjects) raw aggregate score of 12 points or better (excluding CCA bonus points) will be eligible to apply to NYPFP, provided that they have also obtained the minimum required grades listed in the table above.

ADMISSION PROCEDURES FOR DIPLOMA COURSES

Depending on your qualifications, you may apply through one of the following Admission Exercises:

<table>
<thead>
<tr>
<th>QUALIFICATIONS</th>
<th>METHOD OF APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCE O Levels</td>
<td>Early Admissions Exercise (EAE) Application opens in June. Joint Admissions Exercise (JAE) Application commences on the day of release of the GCE O-Level results.</td>
</tr>
<tr>
<td>GCE N Levels</td>
<td>Polytechnic Foundation Programme (PFP) Application commences on the day of release of the GCE O-Level results.</td>
</tr>
<tr>
<td>ITE Certificates</td>
<td>Joint Polytechnic Admissions Exercise (JPAE) Application opens in February. Early Admissions Exercise (ITE) [EAE(I)] Application opens in June.</td>
</tr>
<tr>
<td>Holders of GCE O Levels (those who did not participate in JAE), Integrated Programme (IP), or foreign qualifications (equivalent to GCE O Levels)</td>
<td>Direct Admissions Exercise (DAE) Application commences on the day of release of the GCE O-Level results.</td>
</tr>
<tr>
<td>Malaysian SPM</td>
<td>Direct Admissions Exercise (DAE) Application opens in March.</td>
</tr>
</tbody>
</table>