

## Structure

The Master of Science (Life Sciences) programme allows students to choose from two routes to complete the programme. Students are required to complete:

- six courses plus a dissertation, or
- seven courses plus a two AUs Critical Inquiry Course.

The following table summarises the structure for each route:

### Coursework with Dissertation Route

Core Course	Required Courses	Elective Courses
4 AUs	4 AUs 4 AUs 4 AUs 6 AUs (Dissertation)	4 AUs 4 AUs

Complete one core course (4 AUs), three required courses (12 AUs), two elective courses (8 AUs) and a dissertation (6 AUs).

### Coursework Only Route

Core Course	Required Courses	Elective Courses
4 AUs	4 AUs 4 AUs 4 AUs 2 AUs (Critical Inquiry)	4 AUs 4 AUs 4 AUs

Complete one core course (4 AUs), three required courses (12 AUs), three elective courses (12 AUs) and a Critical Inquiry course (2 AUs).

## Application

Applications may be made online. Hard copies of all supporting documents must be submitted within one week from the date of successful online submission.

For more information on application details, please visit [www.nie.edu.sg/gpl/appl\\_course.htm](http://www.nie.edu.sg/gpl/appl_course.htm).

## Further Queries

For more information, please visit [www.nie.edu.sg/msc\\_ls](http://www.nie.edu.sg/msc_ls) or email us at [nieadmpp@nie.edu.sg](mailto:nieadmpp@nie.edu.sg).

**Office of Graduate Studies  
& Professional Learning**  
National Institute of Education  
Block 7 Level 3  
1 Nanyang Walk Singapore 637616  
Tel: (65) 6790 3888  
[www.nie.edu.sg/gpl](http://www.nie.edu.sg/gpl)

Follow niegpl on    

*Disclaimer: Information is correct as at April 2019*



# MASTER OF SCIENCE LIFE SCIENCES

GPL

# Skills in Life Sciences for the 21st Century

The Master of Science (Life Sciences) programme is designed to equip teachers and personnel in life science related industries with the skills and knowledge associated with this emerging market. The curriculum is multi-disciplinary and intends to equip students with a deeper and broader knowledge of the life sciences especially in the areas of Chemistry, Environmental Biology and Physics. Students will be trained to understand concepts, conduct experiments and projects using life science instrumentation, and solve problems in the domain of life sciences.

The courses are designed for Science graduate teachers in schools and junior colleges, institutes of higher learning and other educational organisations who are keen to upgrade their knowledge in life sciences for their teaching and professional development. In addition, science and engineering graduates from NTU, NUS, and foreign universities, who wish to upgrade themselves for better job opportunities in life science related industries e.g., biomedical products, bioengineering processes, etc. may also apply.

Applicants may choose to enroll in **one** of the three specialisations:

- Chemistry
- Clean Energy Physics
- Environmental Biology



## Entry Requirements

- A good Bachelor of Science with Honours degree, or equivalent, in relevant subjects.
- A good Bachelor of Science degree, or equivalent, in relevant subjects, and at least one year of professional working experience.

International applicants whose first language is not English and graduates of universities with non-English medium of instruction are required to submit an official Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) score. These tests dates must be no more than two years before the date of application.

## Duration of Study

The programme may be completed in one to three years on a full-time basis or two to four years on a part-time basis.

## What students say about the programme:

“ I had a great learning experience pursuing my MSc (Life Sciences) at NIE. The courses comprised of in-depth theoretical knowledge and hands-on experience. The learning of the current advances in research was interesting and helped a great deal in my dissertation. I was intrigued by the lecturers' passion, and their commitment in their specialised fields enhanced my learning. ”

**Thilini Alahakoon**  
Research Officer  
Graduated in 2016

“ This programme goes beyond the science and technology behind the main renewable energy sources of the day. Students also get to perform multidisciplinary and industry-relevant research with the faculty and postdoctoral students. It is truly a great learning experience in a multicultural environment. ”

**Tng Hak Boon**  
Full-time student from Malaysia  
Graduated in 2018

“ I have absolutely no regrets in having embarked on the Master of Science (Life Sciences) programme. The journey was certainly enriching and helped me gain a deeper understanding of scientific knowledge. The programme is also designed to nurture a passion for inquiry through investigative coursework. The coursework equipped me with valuable practical experience and provided me with opportunities to work with a local environmental enterprise as well as meet with an established Danish scientist. ”

**Geetha Salgunan**  
Secondary School Teacher  
Graduated in 2017

“ Education is not the learning of facts, but the training of the mind to think – these words by Einstein embody the Environmental Science specialisation. The practical-based curriculum and numerous field trips widened and deepened my knowledge, leaving a long-lasting impression. The research project gave me independence, and my lecturer's encouragement and support further cemented my understanding of environmental science. Real life issues were regularly discussed in class, making our learning journey enriched and meaningful. ”

**Sowmiya Palaniyappan**  
Corporate Regulatory Affairs Manager  
Graduated in 2016

“ The courses in the programme are taught by excellent lecturers who made the learning enjoyable. The field trips and practicals are memorable and provide relevant hands-on learning. I am grateful for the effort the lecturers put in to impart the myriad techniques required for rigorous scientific research and writing. There is always something new to learn, which I can use in both my work and personal life. ”

**Sherwin Xie**  
Research Scientist  
Graduated in 2015

