



College of Humanities
and Sciences



Special Programme in Science

Faculty of Science
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Special Programme in Science

You have a burning curiosity about the world and your appetite for knowledge is insatiable and expansive. You don't just want to know how the world works; you want to uncover things that no one knows anything about yet. If that describes you, **Special Programme in Science (SPS)** may just be what you are looking for.

This multidisciplinary programme trains you to better understand and address modern scientific challenges through a unique combination of novel pedagogy, peer learning and

mentorship – amidst a close-knit community of aspiring scientists just like you.

- **Interdisciplinary**

If you are excited about scientific domains beyond your primary major, we can help you discover connections you never saw before.

- **Mentorship**

Your seniors have all been there – and they are more than happy to share their tips and tricks.

- **Research**

We started out as a programme to fast-track enthusiastic undergraduates into research – and the same is true today.

Tickled by what we have said so far? Join us.



Your SPS Journey



Year 1

1. The Start of Everything

This is where your journey as a scientist starts – learning to extract, access, read, analyse and convey scientific information effectively.

(SP2271 Introduction to the Scientific Literature)

2. The Wonders of Life

Besides delving into the smallest unit of life, you will also explore how chemical and physical principles underpin basic biological processes through hands-on work in the laboratory – for a close look at how multidisciplinary science can be.

(SP2274 Engineering a Life-like Cell)

3. Hello World

Try your hand at solving interdisciplinary science problems with Python. While at it, hone your computational thinking, data analysis and visualisation skills.

(SP2273 Working on Interdisciplinary Science, Pythonically)



Year 2

4. Sustainable Earth

What is the connection between life and the planet Earth? Using the United Nations Sustainable Development Goals as a framework, you will find out – through systems thinking, computer modelling and actual fieldwork.

(SP3275 Science for a Sustainable Earth)

5. To Infinity and Beyond

Let's go big. Cosmology may sound intimidating, but how about going stargazing? From mathematical manipulation to spectroscopic techniques, you will never look at the night sky the same way again.

(SP3176 The Universe)

6. Research, Research

What you have been waiting for – conducting an interdisciplinary research project (with full creative freedom). Whether it's equipment handling, troubleshooting or data collection, a Principal Investigator and SPS mentors will be there to guide you.

(SP3172 Integrated Science)



Year 3

7. Pass It On

Now that you have learnt so much, it is time to share your knowledge with juniors – just like you. Apply to become Junior Mentors. After all, teaching and mentoring are part of learning too!



Year 4

8. Level Up the Art of Mentoring

This is your chance – to get promoted from a Junior Mentor to a Senior Mentor. Officially, you can now talk science to not just the laymen but also hold your own with experts – and we know you will do a great job.



Beyond Graduation

9. Back for More

You might have graduated, but you are always welcome to return as Graduate Mentors. And this time, no grades involved (at least not yours) – just enjoy the process of engaging and inspiring young, curious minds.

Hear from SPSians



"SPS provided me a conducive learning environment to ask questions, make mistakes, and learn from them. As President of the SPS Committee (2018), I also organised events for the community."

Koo Fang Ru, Senior Crime Scene Specialist, Home Team Science & Technology Agency
BSc (Hons) in Life Sciences (2021)



"Modern research calls for the need to rethink and go beyond traditional approaches. The robust and holistic learning in SPS' multidisciplinary environment equipped me to do so."

Lee Yew Mun, Postdoctoral Research Fellow, NUS
BSc (Hons) in Life Sciences (2012)



"SPS imparted valuable research experiences and countless opportunities for self-development and interpersonal skills – which I tap on daily. I'm confident the lessons I learnt will carry me far."

Ravinraj Ramaraj, Graduate student, Princeton University
BSc (Hons) in Physics (2020)





"SPS was instrumental in shaping my research journey. Having mentors from various scientific fields, I could exchange ideas and perspectives in an intellectually stimulating environment."


Mavis Kang, Graduate student, NUS
BSc (Hons) in Chemistry (2019)


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