2026 Global Science Summer Programme Course Timetable

Please take note of the following:

- GSSP will be held in-person from **29 June to 17 July 2026**. All students are expected to commit to the full 3-week duration of the course(s).
- The course venues are listed in each course timetable. Please click on the individual course title to be redirected to its course timetable.
- Welcome ceremony (with lunch) will be held on **29 June, 12-2PM at LT28**.
- Closing ceremony (with lunch) will be held on **17 July, 12-2PM at LT28**.

For any further queries, please contact scisap@nus.edu.sg **(non-NUS students)** or SCI UG Queries **(NUS students)**.

AM session: 9AM – 1PM

No.	Course Title	Course Subject Area	Course Lecturer	Venue
1	FSC4210 Experimental Forensic Science: From Data to Discovery (4 units)	Forensic Science	Dr Lim Xin Xiang, Prof Stella Tan Wei Ling, Prof Choi Kwok Pui	S16-0206
2	SP2718F Data Science in Action: Financial Transactions and Payments (4 units)	Statistics & Data Science	Prof Markus Kirchberg	S16-0521
3	DSA2362 Decision Trees for Machine Learning and Data Analysis (2 units)*	Statistics & Data Science	Prof Loh Wei-Yin	S16-06-118
4	QF1100 Introduction to Quantitative Finance (4 units)	Mathematics	Prof Liu Chunchun, Prof Li Wei	S17-0611
5	SP2718B Introduction of Cellular Agriculture (4 units)	Biological Sciences	Prof Lieu Zi Zhao, Robert	S2-0414

**DSA2362 will be held from 9AM-12PM.*

PM session: 2PM – 6PM

No.	Course Title	Course Subject Area	Course Lecturer	Venue

6	FSC4203 Forensic Toxicology and Poisons (4 units)	Forensic Science	Prof Stella Tan, Prof Ho Han Kiat, Dr Shawn Lee	LT32
7	DSA1361 Introductory Data Science with Python and Tableau (2 units)**	Statistics & Data Science	Dr Chan Yiu Man	S16-06-118
8	SP2718C Engineering Cells: Parts to Behaviour (4 units)	Biological Sciences	Prof Lieu Zi Zhao, Robert	Lecture: S16-02-08 Lab: S16-02-04

***DSA1361 will be held from 2PM-5PM*

Evening session: 6PM – 10PM

No.	Course Title	Course Subject Area	Course Lecturer	Venue
9	FSC2101 Forensic Science (4 units)	Forensic Science	Prof Stella Tan	Lecture: LT32 Lab: S1A-03Lab1

FSC4210 – EXPERIMENTAL FORENSIC SCIENCE: FROM DATA TO DISCOVERY (4 UNITS)

Course Coordinator: Dr Lim Xin Xiang
Email: xinxiang@nus.edu.sg

Lectures/Labs: DAILY (29 Jun – 17 Jul 2026)
Time: 0900 – 1300 hr
Venue: S16-0206

(DO NOT TAKE THIS MODULE IF YOU CANNOT ATTEND ANY OF THE LECTURES & PRACTICALS.)

Week	MONTH	LECTURE / LABORATORY
		DAILY
1	Jun	29 Introduction to Experimentation in Forensic Science (LXX) • Course Introduction (LXX, ST, LYL) • Experimental Design and Types of Forensic Science experiments (LXX) • Techniques in Literature reviews and forensic science databases (LXX) • Practical - Hypothesis Formulation and Creating Research Questions (LXX, LYL)
		30 Features of Forensic Science Experimentation • Identifying experimental variables, controls and replicates (LXX) • Practical - Development of research proposal, hypothesis formation and research questions (LXX, LYL)
	Jul	01 Refining Selected Research topics • Practical - Individualized group project consultation (LXX, LYL)
		02 Techniques to Experimental Data Analysis • Introduction to Statistics (CKP) • Descriptive Statistics (CKP) • Experimental Data Collection Techniques and Sampling (CKP)
		03 Statistical Testing • Statistical Testing (CKP) • Practical - Experimental Design Refinement (LXX, LYL, CKP)
2	Jul	06 Research Proposal preparation (LXX, LYL)

		07 Presentation 1 • Presentation on Research Proposal and Methodology (LXX, LYL, CKP, ST)
		08 Forensic Experimentation 1 • Experimentation Session 1 (LXX, LYL)
		09 Forensic Experimentation 2 Experimentation Session 2 (LXX, LYL)
		10 Forensic Experimentation 3 Experimentation Session 3 (LXX, LYL)
3	Jul	13 Advanced Data Analysis Techniques • Data Analysis, parametric and non-parametric methods (CKP) • Regression and correlation (CKP) • Practical – Experimental Data Analysis 1 (LXX, LYL, CKP)
		14 Experimental Data Analysis Practical – Experimental Data Analysis 2 (LXX, LYL, CKP)
		15 Communicating Scientific Findings • Scientific Writing (LXX) • Scientific Poster Design (LYL)
		16 Preparation for Scientific poster Design (LXX, LYL)
		17 Research Poster Presentation (LXX, LYL, CKP, ST) Submission of Group Scientific Report Submission of Individual Reflection

Lecturers:
A/Prof Stella Tan (ST)
Dr Lim Xin Xiang (LXX)
Prof Choi Kok Pui (CKP)
Ms Low Yi Lian (LYL)

Assessments
Research Proposal Presentation (20%)
Research Poster Presentation (25%)
Group Scientific Report (25%)
Individual Reflection (10%)
Class Participation and Attendance (20%)
(Total: 100%)

(Updated by Dr Lim Xin Xiang on 3 Nov 2025)

SP2718F (4 units) Timetable - Summer 2026

Teaching Period: Session A - 29th June 2026 to 17th July 2026

Course Coordinators: Prof Markus Kirchberg

Venue: S16-0521

<table>
<tr><th></th><th>Monday</th><th>Tuesday</th><th>Wednesday</th><th>Thursday</th><th>Friday</th></tr>
<tr><td>Week 1</td><td>29-Jun</td><td>30-Jun</td><td>01-Jul</td><td>02-Jul</td><td>03-Jul</td></tr>
<tr><td>AM
(9AM to 1PM)</td><td rowspan="2">SP2718F
(9AM to 11.30AM)
Welcome Ceremony (Lunch) 12-2PM, at LT28</td><td>SP2718F</td><td>SP2718F</td><td>SP2718F</td><td>SP2718F</td></tr>
<tr><td>PM
(2PM to 6PM)</td><td></td><td></td><td></td><td></td></tr>
<tr><td>Week 2</td><td>06-Jul</td><td>07-Jul</td><td>08-Jul</td><td>09-Jul</td><td>10-Jul</td></tr>
<tr><td>AM
(9AM to 1PM)</td><td>SP2718F</td><td>SP2718F</td><td>SP2718F</td><td>SP2718F</td><td>SP2718F</td></tr>
<tr><td>PM
(2PM to 6PM)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Week 3</td><td>13-Jul</td><td>14-Jul</td><td>15-Jul</td><td>16-Jul</td><td>17-Jul</td></tr>
<tr><td>AM
(9AM to 1PM)</td><td>SP2718F</td><td>SP2718F</td><td>SP2718F</td><td>SP2718F</td><td rowspan="2">SP2718F
(to end early due to Farewell Ceremony)
Farewell Ceremony (lunch): 12-2PM, at LT28</td></tr>
<tr><td>PM
(2PM to 6PM)</td><td></td><td></td><td></td><td></td></tr>
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2026 GSSP Timetable: DSA1361 (2 units) & DSA2362 (2 units)

Teaching Period: Session A - 29th June 2026 to 17th July 2026

Course Coordinators: Dr Chan Yiu Man (DSA1361), Prof Loh Wei-Yin (DSA2362)

AM Session: 9am - 12noon; **PM Session**: 2pm - 5pm

Venue: S16-06-118

<table>
<tr><th></th><th>Monday</th><th>Tuesday</th><th>Wednesday</th><th>Thursday</th><th>Friday</th></tr>
<tr><td>Week 1</td><td>29-Jun</td><td>30-Jun</td><td>01-Jul</td><td>02-Jul</td><td>03-Jul</td></tr>
<tr><td>AM</td><td rowspan="2">No class
Welcome Ceremony
(Lunch: 12-2PM at LT28)</td><td>DSA2362</td><td>DSA2362</td><td>DSA2362</td><td>DSA2362</td></tr>
<tr><td>PM</td><td>DSA1361</td><td>DSA1361</td><td>DSA1361</td><td>DSA1361</td></tr>
<tr><td>Week 2</td><td>06-Jul</td><td>07-Jul</td><td>08-Jul</td><td>09-Jul</td><td>10-Jul</td></tr>
<tr><td>AM</td><td>DSA2362</td><td>DSA2362</td><td>DSA2362</td><td>DSA2362</td><td>DSA2362</td></tr>
<tr><td>PM</td><td>DSA1361</td><td>DSA1361</td><td>DSA1361</td><td>DSA1361</td><td>DSA1361</td></tr>
<tr><td>Week 3</td><td>13-Jul</td><td>14-Jul</td><td>15-Jul</td><td>16-Jul</td><td>17-Jul</td></tr>
<tr><td>AM</td><td>DSA2362</td><td>DSA2362</td><td rowspan="2">No class</td><td>DSA2362: No class</td><td rowspan="2">No class
Closing Ceremony
(Lunch: 12-2PM at LT28)</td></tr>
<tr><td>PM</td><td>DSA1361</td><td>DSA1361</td><td>DSA1361: Class TBC</td></tr>
</table>

Notes:

1. All courses will be conducted in-person and students are expected to attend classes on NUS campus
2. DSA1361 consists of 3 quizzes. More details will be shared during class.

3. DSA2362 consists of 3 tests. More details will be shared during class.
4. Welcome Lunch and Farewell Lunch will be scheduled from 12noon to 2pm at LT28.
5. Timetable is subject to change.

QF1100 Introduction to Quantitative Finance

Course coordinators: Dr Liu Chun Chun, Dr Li Wei
Venue: S17-0611

Week 1	**Monday** **29 June 2026**	**Tuesday** **30 June 2026**	**Wednesday** **01 July 2026**	**Thursday** **02 July 2026**	**Friday** **03 July 2026**
	Theory of Interest – I Dr LIU Chunchun	Theory of Interest – II Dr LIU Chunchun	No Lecture	Theory of Interest – III Dr LI Wei	Bond – I Dr LI Wei
9 AM – 1PM **S17-0611**	12-2PM: GSSP Welcome Ceremony (All lecturers & students invited)		Homework 1 due		In-class quiz 1
Week 2	**Monday** **06 July 2026**	**Tuesday** **07 July 2026**	**Wednesday** **08 July 2026**	**Thursday** **09 July 2026**	**Friday** **10 July 2026**
9 AM – 1PM	Bond – II Dr LI Wei	Bond – III Dr LI Wei	No Lecture	Forward and Futures – I Dr LIU Chunchun	Forward and Futures – II Dr LIU Chunchun
S17-0611			Homework 2 due		In-class quiz 2
Week 3	**Monday** **13 July 2026**	**Tuesday** **14 July 2026**	**Wednesday** **15 July 2026**	**Thursday** **16 July 2026**	**Friday** **17 July 2026**
	Options – I Dr LIU Chunchun	Options – II Dr LIU Chunchun	No lecture	Options – III Dr LI Wei	Final Exam 9:30 – 11:30am
9 AM – 1PM **S17**-0404			Homework 3 due		12-2PM: GSSP Closing Ceremony (All lecturers & students invited)

SP2718B: Introduction of Cellular Agriculture

Teaching Period: Monday, 29th June 2026 to Friday, 17th July 2026 (daily, Mondays to Fridays, PM Session 9pm –1pm)
Course Coordinator: Dr Lieu Zi Zhao, Robert (Department of Biological Science) (dbslzz@nus.edu.sg)
Lecture Time (AM): 1st Session: 9.00pm – 10.30am; (***break*** *10.30am – 11.00am*); **2nd Session**: 11.00am – 1.00pm.
Lecture Venue: S2-0414

	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Week 1	**29-Jun**	**30-Jun**	**01-Jul**	**02-Jul**	**03-Jul**
1st Session: 9.00am – 10.30am (***break*** *10.30am – 11.00am*) **2nd Session**: 11.00am – 1.00pm **Daily Attendance and Participation in class (30%) during the three weeks of class**	**Introduction to Cellular Agriculture & Future Food Challenges** **Combined GSSP Welcome Ceremony (at 12.00 noon)** (Venue: LT28) **Combined GSSP Welcome Lunch (12.00 noon – 2.00pm)** (Venue: LT28)	**Introduction to Cellular Agriculture & Future Food Challenges**	**Making "cultivated meat" like meat**	**Making "cultivated meat" like meat**	**The Science and Technology behind Cultivated Meat and Cell-Based Foods** **Beginning of course reflections: Individual reflections (15%)**
Week 2	**06-Jul**	**07-Jul**	**08-Jul**	**09-Jul**	**10-Jul**
1st Session: 9.00am – 10.30am (***break*** *10.30am – 11.00am*) **2nd Session**: 11.00am – 1.00pm	**The Science and Technology behind Precision Fermentation & Acellular Agriculture**	**Consumer Acceptance, Ethics, and Market Adoption-1**	**Consumer Acceptance, Ethics, and Market Adoption- 2**	**Consumer Acceptance, Ethics, and Market Adoption-4**	**IBiomaterials & Scaffolding for Structured Products**
Week 3	**13-Jul**	**14-Jul**	**15-Jul**	**16-Jul**	**17-Jul**
1st Session: 9.00am – 10.30am (***break*** *10.30am – 11.00am*) **2nd Session**: 11.00am – 1.00pm	**Bioprocess Engineering & Scaling Up**	**Safety, Regulation, and Quality Control**	**Consultations for the group project and time to work on the group project**	**Future of Cellular Agriculture & Student Mini-Symposium** **Group project: Group presentations on an innovation (30%).**	**End of course reflections: Individual reflections (15%)** **Combined GSSP Farewell Ceremony & Lunch/Dinner** (12 noon onwards at LT28)

Notes:

1. The course will be conducted in person, and students are expected to attend classes and lab sessions on NUS campus
2. The course consists of 3 sets of continual assessments (class participation, individual reflections, and 1 group project). More details will be shared during class.
3. Welcome Lunch and Farewell Lunch will be scheduled from 12noon to 2pm.
4. The timetable is subject to change.

FSC4203 – FORENSIC TOXICOLOGY AND POISONS (4 UNITS)

Course Coordinator: Dr Shawn Lee
Email: leemys@nus.edu.sg

Lectures/Labs: DAILY (29 Jun – 17 Jul 2026)
Time: 1400 – 1800 hr
Venue: LT32

(DO NOT TAKE THIS MODULE IF YOU CANNOT ATTEND ANY OF THE LECTURES & PRACTICALS.)

Week	MONTH	LECTURE / LABORATORY
		DAILY
1	Jun	29 Intro to module and requirements Biological system perspectives 1 (HHK) Legal Perspectives: Beer making practical (ST, SL)
		30 Biological system perspectives Part 2 and 3 (HHK)
	Jul	01 Agents of Interest (ST, SL)
		02 Group tutorial (HHK) VR orientation (SL)
		03 Legal Perspectives (ST, SL) CSI fundamentals (ST, SL)
2	Jul	06 Sample preparation (HHK, SL) LC Practical (HHK, SL)
		07 AAS Practical (SL) Lab measurement for beer 2 (ST, SL)
		08 VR CSI Practical (ST, SL)
		09 VR CSI Practical (ST, SL) Forensic Entomotoxicology (SL)

		10 Raman Practical (ST, SL) Moot Court tutorial (ST)
3	Jul	13 Acute poisoning: 6 steps in management in the ER (ER Doctors)
		14 Moot Court Exam Day I (ST, SL) Submission of LC Practical Report (HHK)
		15 Moot Court Exam Day II (ST, SL)
		16 Lab measurement for beer 3 (SL)
		17 Oral Viva (ST, HHK, SL)

Lecturers:
A/Prof Ho Han Kiat (HHK)
A/Prof Stella Tan (ST)
Dr Shawn Lee (SL)

Assessments
Moot Court (15+15=30%)
Oral viva (20+15+15=50%)
Lab Report (10%)
Class Participation and Attendance (10%)
(Total: 100%)

(Updated by Dr Shawn on 10 Nov 2025)

SP2718C: Engineering Cells: Parts to Behaviour

Teaching Period: Monday, 29th June 2026 to Friday, 17th July 2026 (daily, Mondays to Fridays, PM Session 2pm – 6pm)
Course Coordinator: Dr Lieu Zi Zhao, Robert (Special Programme in Science, Faculty of Science, Dean`s office) (dbslzz@nus.edu.sg)
Lecture Time (AM): 1st Session: 2.00pm – 3.30pm; (***break*** *3.30pm – 4.00pm*); **2nd Session**: 4.00pm – 6.00pm. If lab sessions are scheduled, then we will run the lab from 2-6 pm.
Lecture Venue: S16-02-08
Lab Venue: S16-02-04

	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Week 1	**29-Jun**	**30-Jun**	**01-Jul**	**02-Jul**	**03-Jul**
1st Session: 2.00pm – 3.30pm (***break*** *3.30pm – 4.00pm*) **2nd Session**: 4.00pm – 6.00pm **Daily Attendance and Participation in class (30%) during the three weeks of class**	**Introduction – What is Synthetic Biology and its application in modern society?** **Combined GSSP Welcome Ceremony (at 12.00 noon)** (Venue: LT28) **Combined GSSP Welcome Lunch (12.00 noon – 2.00pm)** (Venue: LT28)	**Engineering Biology Roadmap & the DBTL Cycle**	**Impacts & Applications of Engineering Biology (Example of real-world implications)**	**Core Tools for Engineering Biology Part 1: Engineering DNA & Biomolecules** Lab session 1: • PCR Amplification of reporter biobrick • Gel electrophoresis and PCR purification	**Information processing and engineering of cellular behaviour#1** Lab session 2: • Performing 3A assembly of the reporter device. **Week 1: Individual Reflections (15%)**
Week 2	**06-Jul**	**07-Jul**	**08-Jul**	**09-Jul**	**10-Jul**

1st Session: 2.00pm – 3.30pm (***break*** *3.30pm – 4.00pm*) **2nd Session**: 4.00pm – 6.00pm	**Information processing and engineering of cellular behaviour#2** Lab session 3: • Bacterial transformation of the reporter device.	**Information processing and engineering of cellular behaviour#3** Lab session 4: • Analysis of outcome, discussion and reflection of data. • Testing my biosensor- how well does the device work in various concentrations of biosensor?	**Applying DBTL to improve the arabinose biosensor design** Lab session 5: • Analysis of outcome, discussion and reflection of data.	**Information processing and engineering of cellular behaviour#3** Interpretation and building of genetic circuits	**Information processing and engineering of cellular behaviour#4** Interpretation and building of genetic circuits
Week 3	**13-Jul**	**14-Jul**	**15-Jul**	**16-Jul**	**17-Jul**
1st Session: 2.00pm – 3.30pm (***break*** *3.30pm – 4.00pm*) **2nd Session**: 4.00pm – 6.00pm	**Consultations for the group project and time to work on the group project.**	**Core Tools for Engineering Biology-Part 2: Engineering Hosts and Data Science**	**Impacts & Applications of Engineering Biology** The student will present how synthetic biology can be used to solve a societal problem. **Group project: Group presentations on an innovation (30%).**	**Impacts & Applications of Engineering Biology** Guest lecture/ forum on the future of synthetic biology. Careers and research in synthetic biology?	**End of course reflections: Individual reflections (15%)** **Combined GSSP Farewell Ceremony & Lunch (12.00 noon – 2.00pm)** (Venue: LT28)

Notes:

1. The course will be conducted in person, and students are expected to attend classes and lab sessions on NUS campus
2. The course consists of 3 sets of continual assessments (class participation, individual reflections, and 1 group project). More details will be shared during class.
3. Welcome Lunch and Farewell Lunch will be scheduled from 12noon to 2pm at LT28.
4. The timetable is subject to change.

FSC2101 - Forensic Science

Course Coordinator: A/P Stella Tan
Email: dbstwls@nus.edu.sg
Tel: 6516 2716

Lecture: Mon to Fri
Time: 6-10 pm
Venue: LT32 (Lecture), S1A-03Lab1 (Practical)

Wk	Month	Lecture / Tutorial / Practical 6-10 pm LT32 (Lecture), S1A-03Lab1 (Practical)
1	June	29 (Mon) L1: Introduction and Forensic Science in Singapore Prep Quiz
	June	30 (Tues) L2: Forensic Science in Murder Cases Quiz 1 (for L1 and L2)
	July	01 (Wed) L3: Forensic Human Identification Quiz 2 (for L3)
	July	02 (Thurs) L4: Forensic Analysis of Fingerprints Practical 1: Forensic Analysis of Fingerprints
	July	03 (Fri) Reflections I

Wk	Month	Lecture / Tutorial / Practical
		6-10 pm LT32 (Lecture), S1A-03Lab1 (Practical)
2	July	06 (Mon) L5: Bloodstain Pattern Analysis Quiz 3 (for L4 and L5)
	July	07 (Tues) L6: Forensic Hair Analysis Practical 2: Forensic Hair Analysis Quiz 4 (for L6)
	July	08 (Wed) L7: Illicit Drugs Analysis
	July	09 (Thurs) L8: Firearms Examination Quiz 5 (for L7 and L8)
	July	10 (Fri) Reflections II
3	July	13 (Mon) L9: Arson Investigation Quiz 6 (for L9)
	July	14 (Tues) L10: Crime Scene Investigation (CSI) Practical: CSI

Wk	Month	Lecture / Tutorial / Practical
		6-10 pm LT32 (Lecture), S1A-03Lab1 (Practical)
	July	15 (Wed) L11: Forensic Document Examination Quiz 7 (for L10 and L11)
	July	16 (Thurs) L12: Evidence in Forensic Science Quiz 8 (for L12)
	July	17 (Fri) Reflections III

Lecturer
Assoc Prof Stella Tan

Assessments
8 Quizzes (80%)
Class Participation and Attendance (20%)
[total: 100%]

Updated by Prof Stella on 29 Nov 2025