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6688 BSc&MRes (Science Master Class)

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Curriculum of BSc&MRes Degrees *(Science Master Class)*

- To complete the BSc&MRes curriculum, students have to pass not fewer than a total of **303 credits** consisting
  - not fewer than **240 credits** for the Bachelor of Science (BSc) degree and
  - **63 credits** for the Master of Research (MRes) degree integrated into the BSc curriculum from Year 2 onwards

- Students are required to complete one Science major out of the 7 intensive Science majors as their primary major for the BSc degree

  Biological Sciences (Intensive)
  Chemistry (Intensive)
  Ecology & Biodiversity (Intensive)
  Geology (Intensive)
  Mathematics (Intensive)
  Molecular Biology & Biotechnology (Intensive)
  Physics (Intensive)

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Curriculum of BSc&MRes Degrees
(Science Master Class)

- Students are expected to have 1-year abroad experience in a university for exchange/visiting study and/or conducting research project (e.g. Summer Research Fellowship, Overseas Research Fellowship) in either Year 2 or 3.

- Students have to achieve a **CGPA of 3.6 or above** at **the end of Year 2** to remain enrolled in this dual degree programme, or else they have to switch to the 6901 BSc programme.

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Curriculum of BSc&MRes Degrees (Science Master Class)

The BSc Degree (240 credits)

- Students have to pass at least 240 credits, equivalent to 40 6-credit courses, which comprises:

(i) UG5:

- A non-credit bearing Academic Communication in English course
- 6 credits in an English in the Discipline course
- 6 credits in a Chinese language enhancement course
- 24 credits in the Common Core Curriculum, comprising courses from four of the five Areas
- 6 credits in artificial intelligence literacy
- A non-credit bearing course in national education and national security education

(ii) Intensive Science major:

- 24 - 25 courses for the intensive Science major including 2 Science Foundation courses, Disciplinary courses and capstone course(s) (144 - 150 credits)
- A choice of 8 - 9 courses as elective courses, or to fulfil the requirements of a minor (36-48 credits)

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Curriculum of BSc&MRes Degrees
(Science Master Class)

The MRes Degree (63 credits)

- Students must complete at least 63 credits, including one compulsory course on **research ethics, i.e. INRE6033 Research Ethics for Graduate Students (Faculty of Science) (3 credits)**, **18 credits** of Faculty-offered **Research Postgraduate courses**, and **42 credits** of a **research project, i.e. INRE7999 Research Project**.

- The project report of the research project will be in the form of a literature review paper and an original research paper in the relevant field.

- Students are expected to take **INRE6033** in Year 2 and the other postgraduate courses of the MRes component starting from the Semester 1 of Year 3.

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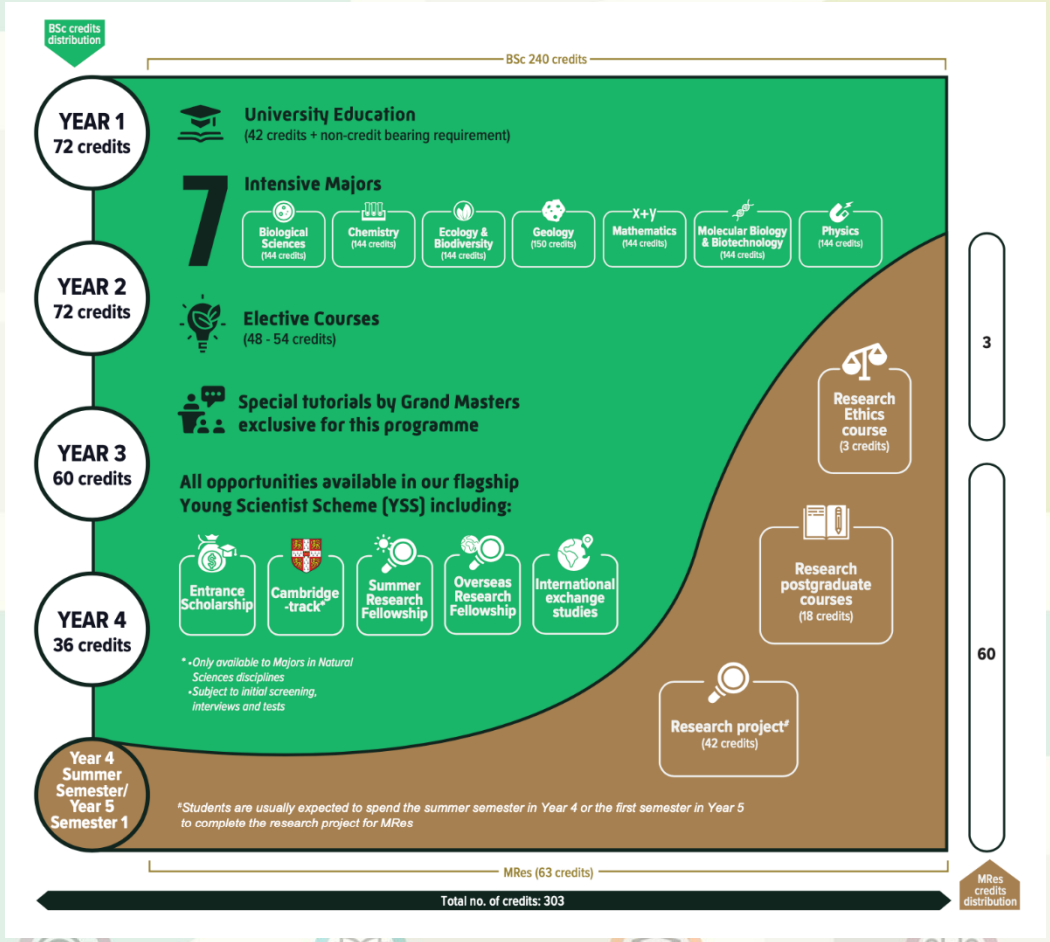
Sample study path for BSc&MRes students



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Sample Study Plans for BSc&MRes Students

Sample A

For studying within the normative study period

A. *Sample study plan for studying within the normative study period

	YEAR 1		YEAR 2		YEAR 3		YEAR 4	
	BSc	MRes	BSc	MRes	BSc	MRes	BSc	MRes
Semester 1	36	0	36	3	18	18	18	42 (research project)
Semester 2	36	0	36 (optional exchange study^)	0	30 (optional visiting study^)	0	18	
Summer Semester	0 (optional SRF^)	0	0 (optional ORF^)	0	12 (optional overseas summer study^)	0	0	
Total	72	0	72	3	60	18	36	42
	72		75		78		78	

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Sample Study Plans for BSc&MRes Students

Sample B

For top performing BSc students who opt for BSc&MRes in Year 3

B. *Sample study plan for top performing BSc students who opt for the BSc&MRes programme in Year 3						
	YEAR 1	YEAR 2	YEAR 3		YEAR 4	
	BSc	BSc	BSc	MRes	BSc	MRes
Semester 1	36	36	12	21	18	42 (research project)
Semester 2	36	36 (optional exchange study^)	36 (optional visiting study^)	0	18	
Summer Semester	0	0 (optional SRF/ORF^)	12 (optional overseas summer study^)	0	0	
Total	72	72	60	21	36	42
			81		78	

Note: A small number of top-performing BSc students in the 6901 BSc programme will have the opportunity to join this integrated programme under stringent criteria. Eligible BSc students can apply for opt in at the end of their Year 2 study. Eligibility includes having completed 144 credits, and achieved **CGPA of 4.0** or above at the end of Year 2.

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Sample Study Plans for BSc&MRes Students

Sample C

For studying beyond normative study period (completion in 4.5 years)

C. *Sample study plan for students who study beyond the normative study period (completion of study in 4.5 years)

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5	
	BSc	MRes	BSc	MRes	BSc	MRes	BSc	MRes	BSc	MRes
Semester 1	36	0	30	3	24	12	12		30	6
Semester 2	30	0	36 (optional exchange study^)	0	30 (optional visiting study^)	0	12	42 (research project)	-	-
Summer Semester	0 (optional SRF^)	0	0	0	0 (optional ORF^)	0	0		-	-
Total	66	0	66	3	54	12	24	42	30	6
	66		69		66		66		36	

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Sample Study Plans for BSc&MRes Students

Sample D

For studying beyond normative study period (completion in 5 years)

D. *Sample study plan for students who study beyond the normative study period (completion of study in 5 years)										
	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5	
	BSc	MRes	BSc	MRes	BSc	MRes	BSc	MRes	BSc	MRes
Semester 1	30	0	30	3	24	6	24	6	12	42 (research project)
Semester 2	30	0	30 (optional exchange study^)	0	30 (optional visiting study^)	0	24	6	6	
Summer Semester	0 (optional SRF^)	0	0	0	0 (optional ORF^)	0	0	0	0	
Total	60	0	60	3	54	6	48	12	18	42
	60		63		60		60		60	

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Sample Study Plans for BSc&MRes Students

Sample E

For students who switch back to BSc in Year 3 and graduate in 3.5 years

E. *Sample study plan for students who switch back to BSc programme only in Year 3, and graduate in 3.5 years						
	YEAR 1		YEAR 2		YEAR 3	YEAR 4
	BSc	MRes	BSc	MRes	BSc	BSc
Semester 1	36	0	36	3	36	30
Semester 2	36	0	36 (optional exchange study^)	0	30 (optional visiting study^)	-
Summer Semester	0 (optional SRF^)	0	0 (optional ORF^)	0	0	-
Total	72	0	72	3	66	30
	72		75			

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Sample Study Plans for BSc&MRes Students

Notes to the sample study plans:

* The sample study plans are for reference only. Students can take different number of credits in each semester as long as they can fulfill the minimum total number of credits required upon their graduation.

^ Summer Research Fellowship, Overseas Research Fellowship, exchange study and visiting study are optional overseas opportunities that students can participate. The semester and the number of credits shown are for reference only.

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BSc&MRes Graduation Requirements

(For students admitted in 2025-26 and thereafter)

- Pass **not fewer** than a total of **303 credits**, consisting of not fewer than **240 credits** for the **BSc** degree and **63 credits** for the **MRes** degree, in the manner specified in these regulations and the syllabuses

- For the completion of the BSc degree, students shall:
  - satisfy the requirements prescribed in UG5 of the Regulations for First Degree Curricula[#], except that in the case of the **Common Core Curriculum**, only **24 credits** from four of the five Areas of Inquiry shall be required, with 6 credits from each selected Area of Inquiry; and
  - take and pass not fewer than 240 credits, comprising 144 credits (or a higher credit requirement by the accredited bodies) of Science courses including all required courses in the intensive major programme of the BSc degree curriculum

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BSc&MRes Graduation Requirements

(For students admitted in 2025-26 and thereafter)

UG5 specifies that students have to successfully complete:

- **a non-credit bearing Academic Communication in English course** [i.e. CAES1001 (taken in Year 1)];
- **6 credits in an English in the Discipline** course [i.e. CAES9820 Academic English for Science Students OR CAES9821 Professional and Technical Communication for Statistical Sciences (taken in Year 2)];
- **6 credits in Chinese language enhancement** [i.e. CSCI9001 Practical Chinese for Science Students (taken in Year 3)];
- **24 credits of courses from four of the five Areas of Inquiry in the Common Core Curriculum**, with 6 credits from each selected Area of Inquiry (Note 1: Common Core courses shall be completed normally within the first three years of the BSc study and cannot be extra taken as free electives; Note 2: One 6-credit course from ONE of the Areas of Inquiry can be replaced by two 3-credit courses of that SAME Area of Inquiry.); and
- 6 credits in **artificial intelligence literacy**;
- any other **non-credit bearing courses** as required; and
- a **capstone experience** as specified in the syllabuses of the degree curriculum.

- For the completion of the MRes degree, students shall:
  - satisfy the requirements prescribed in TPG6 of the Regulations for Taught Postgraduate Curricula;
  - take and pass not fewer than 63 credits, including 21 credits of Research postgraduate courses and 42 credits of research project as prescribed in the syllabus;
  - satisfy the examiners in the courses by continuous assessments and/or by written examinations; and
  - complete and presented a satisfactory research report on an approved research project. The examiners may also prescribe an oral examination.

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Zhou Guangzhao Professor in Natural Sciences, Chair Professor of Chemistry

Prof. Ngaiming MOK

Edmund and Peggy Tse Professor of Mathematics, Director of Institute of Mathematical Research, and Chair Professor of Mathematics

Prof. Guochun ZHAO

Chair Professor of Earth and Planetary Sciences

Prof. Vivian W W YAM

Philip Wong Wilson Wong Professor in Chemistry and Energy, and Chair Professor of Chemistry

Prof. Alice S T WONG

Associate Vice-President (Research), and Chair Professor of School of Biological Sciences

Prof. Wang YAO

Chair Professor of Physics

Prof. Hongjie DAI

Chair Professor of Chemistry

Prof. Shuang ZHANG

Chair Professor of Physics