ESSC ACADEMIC COUNSELLING

For 2021 Admission



Filson Leung

Gavan Wong

Year 3 / Atmospheric Science Stream New Asia College Year 3 / Geophysics Stream Wu Yee Sun College

WHATIS ESSC?

Earth System Science (ESSC) studies the dynamics of the Earth as an interrelated system that includes the **atmosphere**, **biosphere**, **geosphere** and hydrosphere, as well as human impacts.

- Geology, geophysics
- Meteorology
- Oceanography
- Environmental chemistry
- Quantitative skills

STREAMS

*****MUST** select stream at the end of YrI (Jul 2022)

- Atmospheric Science/ Geophysics
- Integrated learning package
- Different major requirements in terms of course combinations
- No strong interest on either side →may opt out at Y2+ → General stream

Why choosing streams?

Major concentration

- For **interest** / Integrated learning package
- Will be printed on transcripts & letter of certification
 Minor declaration
- Can minor physics easily with I-2 additional courses
 Career Prospect
 - Acquire some important skills (mostly quantitative skills)

Physics, Maths(calculus), Programming Skills are important and useful in BOTH stream

#General stream may offer a greater **flexibility** who wish to explore more in other sciences, such as chemistry, biology, statistics, environmental science etc.

About ESSC streams

Atmospheric Science Stream

Study of the dynamics and chemistry of the atmosphere, hydrosphere

Quantitative understanding by models, numbers, statistics and physics of meteorology, oceanography, air pollution, etc

Geophysics Stream

- Studying Earth using gravity,
 electromagnetism and seismic methods
- Quantitative understanding of the solid earth: structures, dynamics, geohazards and natural resources
 Also includes course about
 Geology like Geomorphology, Petrology, Hydrogeology etc.



COURSE PLANNING

- Normally max 18 credits available each semester
- Total 39 credits each Academic Year (Including Summer semester)
- Major requirement: 72 credits

 Most course are in 3 credits
 Most courses have pre-requisites
 Start 3000- level courses in Y2, 4000- level in Y3
 Most 4000- level courses only open bi-yearly
 Average major course-load per year
 72÷4= 18 credits : 6 courses



ESSC Course list can be found in MyCUSIS

Non-highlighted course can be chose freely, But remember to fulfill the stream requirement.

BOTH Stream

Geophysics stream

Atmospheric Science stream

ESSC1000 Exploring the Earth System ESSC2010 Solid Earth Dynamics ESSC2020 Climate System Dynamics ESSC2030 Introduction to Computational Earth System Science ESSC2110 Geoscience Field Study ESSC2120 Integrated Geoscience Field Study ESSC2130 Fundamental Geoscience Field Study ESSC2130 Fundamental Geoscience Field Work ESSC2300 Introduction to Environmental Engineering ESSC3100 Structural Geology ESSC3100 Structural Geology ESSC3200 Analytic Methods in Earth and Environmental Sciences ESSC3100 Structural Geology ESSC3200 Atmospheric Dynamics ESSC3200 Atmospheric Opamatics ESSC3300 Ocean and Climate ESSC3300 Ecosystems and Climate ESSC3800 Elobal Environmental Change ESSC4010 Solid and Fluid Mechanics ESSC4020 Rock and Soil Mechanics ESSC4030 Engineering Geology ESSC4100 Solid and Fluid Mechanics ESSC4110 Applied Geophysics ESSC4120 Petrology </th <th>1 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3</th>	1 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3
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ESSC4130 Geomorphology	3
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ESSC4140 Seismology	3
ESSC4160 Marine Geology and Geophysics	3
ESSC4180 Earthquake Source Physics	3
ESSC4210 Land-Atmosphere Interactions and Boundary Layer Meteorology	3
ESSC4220 Tropical Meteorology	3
ESSC4230 Introduction to the Physics and Chemistry of Aerosol	3
ESSC4240 Air Pollution Science and Engineering	3
ESSC4250 Advanced Topics in Atmospheric Dynamics	3
ESSC4260 Urban Climatology	3
ESSC4510 Statistical Methods and Data Analysis for Earth System Science	3
ESSC4520 Numerical Methods and Modeling for Earth System Science	3
ESSC4540 Remote Sensing – Principles and Applications	3
ESSC4810 Senior Project I	3
ESSC4820 Senior Project II	3

-Foundation Courses

Intermediate-level Courses



Capstone Project (Final Year Thesis)

1. Intermediate-level Physics:



- ENGG1310 & MAEG2030

2. Programming:

Prefer this, more suitable for ESSC student \longrightarrow ESSC2030 CSCI1120, 1510, 1520, 1530, 1540 PHYS2061 More favourable for student without DSE Physics background

3. Intermediate & Advanced ESSC Course:

-Atmo-2 extra 3000level ESSC course

-Geo-3 extra 3000level ESSC course

At least 4 4000 level courses from respective streams

Faculty Package

1.

✓DSE M1/M2 or strong calculus background

XDSE M1/M2 !! MUST obtain B or above for further Math Courses

> Units 9

Faculty Package: Group C: MATH1010 (preferred) or 1018 or 1520 Group D: PHYS1111(preferred) or 1001 or 1002 or 1113 A course from the following Group B: CHEM1070 (preferred) or 1072 Group E: STAT1011(preferred) or 1012

For both stream:

- Required Courses:
- (a) Foundation Science:

One course from the remaining group in the Faculty Package

Faculty Package



Faculty Package



Faculty Package

Units 1. Faculty Package: Group C: MATH1010 (preferred) or 1018 or 1520 Group D: PHYS1111(preferred) or 1001 or 1002 or 1113 A course from the following Group B: CHEM1070 (preferred) or 1072 Group E: STAT1011(preferred) or 1012

Suggested

For both stream:

- 2. Required Courses:
- Foundation Science: (a)

One course from the remaining group in the Faculty Package

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For general stream:

- 2. Required Courses:
- (a) Foundation Science:

One course from the remaining group in the Faculty Package or one course from LSCI1002 (preferred) or 1000 or 1001

> You can choose 2 from LSCI / STAT / CHEM However, STAT and CHEM are recommended.





EARTH SYSTEM SCIENCE COURSE REQUIREMENT APPLICABLE TO STUDENTS ADMITTED IN 2021-22



- CUSIS
- 2. ACADEMIC RECORD
- **3. BROWSE PROGRAM INFORMATION**
- 4. BASIC SEARCH
- 5. SEARCH "UG"
- 6. FIND "ESSC"



COURSE SCHEDULE (FOR YEAR | AND 2)

	Sem 1 (Fall)	Sem 2 (Spring)
2000 Level ESSC	ESSC 1000 ; ESSC 2020 ; ESSC 2800	ESSC 2010
3000 Level ESSC	ESSC 3120 ; ESSC 3200 ; ESSC 3320	ESSC 3100 ; ESSC 3220 ; ESSC 3300 ; ESSC 3600
Faculty package courses	Offered in both semesters (Please check for alternatives)	Offered in both semesters (Please check for alternatives)
PHYS / Alternatives	PHYS 2041	PHYS 1122 ; PHYS 2401 ; ENGG 1310 ; MAEG 2030
MATH		MATH 2550
Programming Course	CSCI 1120 ; CSCI 1540 ; PHYS 2061	ESSC2030 CSCI 1510 ; CSCI 1520 ; CSCI 1530
Languages	ELTU, Other languages (I, III, V)	CHLT, Other languages (I, II, IV)

EXAMPLE (FOR YEAR I STUDENTS)

	Sem 1 (Fall)	Credits
ESSC	ESSC 2020 (advised) ; ESSC 1000 (advised) (1 credit)	3 - 4
Sci Fac Pack	MATH 1010 / STAT 1011 / PHYS1111 / CHEM1070 (or Alternatives)	6
Language	ELTU 1001 / 1002 (pre-reg)	4
P.E.	1 course (1 credit)	1
Foundation GE	(UGFN1000 / UGFH1000)	0 - 3
College GE	0-3 credits (Depends on college)	0 - 3
Others	(Minor/ elective)	0 - 3

EXAMPLE (FOR YEAR I STUDENTS)

	Sem 2 (Spring)	Credits
ESSC	ESSC 2010 (Required)	3 BETTER FINISH ALL
Sci Fac Pack	MATH 1010 / STAT 1011 / PHYS1111 / CHEM1070 (or Alternatives)	3-6
Language	CHLT 1100 (pre-reg)	3
п	ENGG 1000 (pre-reg)	1
P.E.	1 course (1 credit)	1 SHOULD AT LEAST
Intermediate Physics	PHYS1122	0 - 3 STUDY EITHER FH/FN IN YEAR I
Foundation GE	(UGFN1000 / UGFH1000)	0-3
College GE	0-3 credits (Depends on college)	0-3
Others	(Minor/ elective)	0 - 3

FILSON YEARI SEMESTER I



FILSON YEAR I SEMESTER 2

Time	Monday Feb 3	Tuesday Feb 4	Wednesday Feb 5	Thursday Feb 6	Friday Feb 7
8:00AM					
9:00AM		PHED 1023 - A Lecture		ESSC 2010	
10:00AM		10:15AM United College Gymnasium	CHLT 1100 - QM Lecture 8:30AM -	Lecture 9:30AM - 10:15AM Mong Man Wai Bldg 710	
11:00AM		MATH 1010 - J Lecture 10:30AM - 12:15PM Yasumoto Int'i	Hui Yeung Shing Bidg 306	ESSC 2010 T01 Interactive Tutorial 10:30AM - 11:15AM Mong Man Wai Bldg 710	
		Acad Park LT5			GENA 1000 - AA01
12:00PM					Assembly 11:30AM - 1:15PM
			ENGG 1000 - AT		Shaw Hall
1:00PM			Lecture 12:30PM - 1:15PM Wu Ho Man Yuen Bldg 301		GENA 1113 - AW Lecture 11:30AM - 1:15PM Mong Man Wai Bldg 706
		ESSC 2010			
2:00PM	UGFH 1000 -	Lecture 1:30PM			UGFH 1000 - Y
3:00PM	YT01 Interactive Tutorial 2:30PM - 4:15PM	3:15PM Lady Shaw Bldg C2		UGEA 2100 - A Lecture 2:30PM - 4:15PM Humanities	Lecture 2:30PM - 3:15PM Esther Lee Bldg LT1
	Chen Kou Bun Bldg 706B			Building 12	
4:00PM				MATH 1010 - J	
5:00PM				4:30PM - 5:15PM Yasumoto Int'l Acad Park 201	
				MATH 1010 - JT01 Interactive Tutorial	
6:00PM				5:30PM - 6:15PM Yasumoto Int'l Acad Park LT7	

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GAVAN YEAR I SEMESTER I

Time	Monday Sep 2	Tuesday Sep 3	Wednesday Sep 4	Thursday Sep 5	Friday Sep 6
8:00AM				ELTU 1001 -	
9:00AM				DLC1 Classwork 8:30AM - 10:15AM Lee Shau Kee Archi Bido 211	
TU.UUAM		ELTU 1001		UGFN 1000 -	
11:00AM		DLC1 Classwork	ESSC 1000	ST05 Interactive	
12:00PM		10:30AM - 12:15PM Yasumoto Int'l Acad Park 608	Lecture 11:30AM - 12:15PM Science Centre L1	Tutorial 10:30AM - 12:15PM Chen Kou Bun Bldg 706B	GEYS 1000 A01 Assembly 11:30AM -
			MATH 1520 - A Lecture 12:30PM -		1:15PM Lee Shau Kee Building LT6
1:00PM	MATH 1520 - A Lecture		Yasumoto Int'I Acad Park LT6		
2:00PM	12:30PM - 2:15PM Yasumoto Int'I Acad Park LT6		MATH 1520 - AT01 Interactive Tutorial 1:30PM - 2:15PM Yasumoto Int'I Acad Park LT6		UGFN 1000 - S Lecture 1:30PM - 2:15PM Esther Lee Bldg LT4
		PHED 1025 - D	STAT 1011		
3:00PM		2:30PM - 4:15PM	Lecture 2:30PM -		
4:00PM		Lingnan Stadium	5:15PM Yasumoto Int'I Acad Park LT3		GEYS 1010 Lecture 3:30PM -
5:00PM					6:15PM Mong Man Wai
6:00PM					Blag LT1

GAVAN YEAR I SEMESTER 2

Time	Monday Jan 6	Tuesday Jan 7	Wednesday Jan 8	Thursday Jan 9	Friday Jan 10
8:00AM					
9:00AM					CHEM 1070 - B Lecture 8:30AM - 9:15AM T.Y.Wong Hall LT
10:00AM			CHLT 1100 - QM Lecture 8:30AM - 11:15AM Hui Yeung Shing	ESSC 2010 Lecture 9:30AM - 10:15AM Mong Man Wai Bidg 710	CHEM 1070 - BT01 Interactive Tutorial 9:30AM - 10:15AM T.Y.Wong Hall LT
11:00AM		PHYS 1001 Lecture 10:30AM - 12:15PM	Blug 306	ESSC 2010 T01 Interactive Tutorial 10:30AM - 11:15AM Mong Man Wai Bldg 710	
12:00PM		Lady Shaw Bldg LT3	ENGG 1000 - AS Lecture 11:30AM - 12:15PM Lee Shau Kee Archi Bldg G01		GEYS 1000 A01 Assembly 11:30AM - 1:15PM Lee Shau Kee Building LTC
1:00PM					Dullung LTO
2:00PM		ESSC 2010 Lecture		PHYS 1001 Lecture	UGFH 1000 - Y
3:00PM	CHEM 1070 - B Lecture 2:30PM - 4:15PM T.Y.Wong Hall LT	3:15PM Lady Shaw Bldg C2	PHED 1021 - F Lecture 2:30PM - 4:15PM New Asia College Gymnasium	3:15PM Yasumoto Int'l Acad Park 505	Lecture 2:30PM - 3:15PM Esther Lee Bldg LT1
4:00PM	UGEH 1000 -		2,7,1,1,0,0,0,1,11		
5:00PM	YT02 Interactive Tutorial 4:30PM - 6:15PM				
6:00PM	Chen Kou Bun Bldg 706B				

Reminders

- 1. SHOULD FINISH ESSC 1000, 2010 AND 2020 (DEPENDS) BY YEAR I
- 2. SHOULD FINISH MOST FACULTY PACKAGES BY YEAR I
- **3. MUST OBTAIN B OR ABOVE FOR MATH 1520**



I8 CREDS / SEMESTER
 6 CREDS / SUMMER

39 CREDS / YEAR

- 4. SHOULD FINISH PROGRAMMING COURSE BY YEAR 2
- 5. MUST FINISH UGFH + UGFN BY THE END OF YEAR 2
- 6. BE CAREFUL WITH STREAM REQUIREMENTS, COURSE
- 7. PREREQUISITES AND AVAILABILITY

Reminders for further study plan

I. MAKE USE OF SUMMER SEMESTER FOR UGEX COURSES

2. FINISH INTERMEDIATE LEVEL PHYSICS (PHYSII22, PHYS2O4I) ASAP (PHYS COURSE OCCUPY MANY TIMESLOTS→TIME CLASH)

- **3. 4XXX COURSES OFFERED EVERY OTHER YEAR**
- 4. CAN START STUDYING 3XXX COURSES IN YEAR 2/ 4XXX COURSES IN YEAR 3
- 5. COURSE CODE >= 2000 COUNT TOWARDS MAJOR(HON) GPA

Reminders for further study plan

<u>CGPA: Cumulative (weighted mean) GPA</u>

- Include all courses you have studied
- For applying scholarships/ exchange

Major GPA: (Honors) GPA

- Include all 2000+ level courses that contribute to your major requirement

- For distributing Honors when you graduate

APPENDIX: COURSE SCHEDULE (ADVANCED COURSES)

	2020 Fall	2021 Spring	2021 Fall	2022 Spring	
Solid Earth	ESSC 4130		ESSC 4030 ; ESSC 4110 ; ESSC 4120	ESSC 4140	
Atmospheric Science	ESSC 4260	ESSC 4220 ESSC 4240	ESSC4210	ESSC 4230 ESSC 4250	
Mechanics		ESSC 4010		ESSC 4010	
Data processi ng / Modeling	ESSC 4540	ESSC 4510		ESSC 4520	
Others	ESSC 3900 (Internship)				

MOST 4000- LEVEL COURSES ONLY OPEN BI-YEARLY





