

Details of courses offered in Semester 1, 2023/24

Faculty of Science The University of Hong Kong

Last update: July 21, 2023

Course Code	Course Title	Level (RPG/TPG)	Pre-requisites	Class Dates	Class Time	Venue	Course Syllabus URL	Contact Information (Name & Email)	Remarks (e.g. Please specify if the medium of instruction is NOT English)
BIOL6009	Advanced studies in Ecology & Biodiversity for Postgraduate Students	RPG	RPG	---	---	---	http://www.biosch.hku.hk/course/RPGmodules.html	Ms. Flora Chan ppchan@hku.hk	Student will select BSc course in our School and we will notify the corresponding timetable.
EASC6009	Evolving Earth Systems	RPG	/	The timetable will be decided until after meeting with students.		N/A	https://www.earthsciences.hku.hk/prospective-students/postgraduate-students/research-postgraduates/coursew	Dr Ryan McKenzie ryan00@hku.hk	
MATH6501	Topics in algebra	RPG	Basics on ordinary differential equations and complex functions of a single variable	Sep 1 - Nov 30, 2023 (Wednesdays)	9:30 - 12:20	JLG01	List-of-courses">https://hkumath.hku.hk/web/current/pg-course.php->List-of-courses	Dr Z Hua huazheng@maths.hku.hk	/
PHYS8351	Graduate Quantum Mechanics	RPG	/	Sep 1 - Nov 30, 2023 (Tuesdays)	13:30 - 16:20	EH101	https://www.physics.hku.hk/	Ms Anna Wong annaylw@hku.hk	The link will be available only from 24 July 2023
PHYS8352	Quantum Information	RPG	/	Sep 1 - Nov 30, 2023 (Mondays; Fridays)	17:30 - 18:20; 16:30 - 18:20	EH101	https://www.physics.hku.hk/	Ms Anna Wong annaylw@hku.hk	The link will be available only from 24 July 2023
PHYS8654	General Relativity	RPG	/	Sep 1 - Nov 30, 2023 (Tuesdays; Friday)	09:30 - 10:20; 09:30 - 11:20	MW325	https://www.physics.hku.hk/	Ms Anna Wong annaylw@hku.hk	The link will be available only from 24 July 2023
PHYS8852	Photonics and Metamaterials	RPG	/	Sep 1 - Nov 30, 2023 (Wednesday)	14:30 - 17:20	KKLG102	https://www.physics.hku.hk/	Ms Anna Wong annaylw@hku.hk	The link will be available only from 24 July 2023

EASC6009 (Evolving Earth Systems)		Academic Year	2023 - 24
Offering Department	Earth Sciences	Compulsory (C)/ Elective (E)	E
Course Co-ordinator	Dr. Ryan McKenzie (ryan00@hku.hk)		
Teachers Involved	Variable depending on topics each semester		
Course Objectives	Evaluate various integrative Earth systems in space and time.		
Course Contents & Topics	Biogeochemical and tectonic processes that influence Earth's surface environment. Each semester topics may cover: "Origin of the Continental Crust", "The Carbon Cycle", "Oxygenation of the Atmosphere", "Mountains and Climate", amongst others.		
Course Learning Outcomes	<p>Upon successful completion of this course, students should:</p> <ol style="list-style-type: none"> 1) generate an understanding of "systems science" as pertaining to topics in Earth and Planetary Sciences; 2) understand topics covered such that they can actively participate in critical research-related discussions, as well as provide coherent presentations explaining the fundamentals of specified topics; and 3) understand topics to the level that they can formulate new scientific questions relevant to their personal research, from which they can generate new ideas for future scientific proposals of their own. 		
Pre-requisites (and Co-requisites and Impermissible combinations)	N/A		
Offer in 2019 - 2020	Yes (1st sem and 2nd sem)	Examination	No Exam
Offer in 2020 - 2021	Yes		

Course Grade	Pass/Fail		
Grade Descriptors	Pass	Completion of weekly objectives. Demonstrate understanding of various topics covered, primarily through active participation in group discussions and ability to present and lead discussion on select topics. Short writing exercise on select topic to be determined with instructor.	
	Fail	Lack of participation, failure to present/lead discussions on select topics or complete course objectives.	
Course Type	Lecture-based / discussion-based		
Course Teaching & Learning Activities	Activities	Details	No. of Hours
	Lectures		2 hours/week
Assessment Methods and Weighting	Methods	Details	Weighting in final course grade (%)
	Assignment	Participation in readings & discussion, leading discussion via presentation of select readings.	100%
Required/recommended reading and online materials	Scientific journal articles TBD each semester.		
Additional Course Information	This course is for RPg students of: All Faculties of HKU and other UGC-funded Universities.		

MATH6501 Topics in algebra

- Course information: This is an introduction to the local and global theory of systems of meromorphic ordinary differential equations.
- Pre-requisite: Basics on ordinary differential equations and complex functions of a single variable
- Textbook: Balser's book and Deligne's book
- Assessment: Continuous assessment and written examinations
- Contact Person: Dr. Z Hua
- Class schedule: Every Wednesday 9:30 a.m. – 12:20 p.m.
- Venue: JLG01, James Hsioung Lee Science Building, Main Campus