

Hong Kong Baptist University
Faculty of Science
Department of Mathematics

Title (Units): MATH 3591 MATHEMATICAL SCIENCE PROJECT I (3,0,9)

Course Aims: This is a half-year individual project which usually relates to an interdisciplinary or applied topic, and requires knowledge and skill acquired in various courses. A thesis and an oral presentation are required upon completion of the project.

Prerequisite: Year 3 Standing

Prepared by: S.N. Chiu

Learning Outcomes (LOs):

Upon successful completion of this course, students should be:

No.	Learning Outcomes (LOs)
	Knowledge
1	Able to conduct in-depth literature review to obtain comprehensive knowledge of specific topic area
2	Able to evaluate and select appropriate research methodology
	Skills
3	Able to plan, develop and carry out an independent research project
4	Able to apply mathematical and statistical knowledge and techniques to formulate solutions for real-life problems
5	Able to present the project in written and oral format
	Attitude
6	Able to work independently
7	Able to appreciate mathematical research

Assessment, Learning Outcomes and Weighting:

No.	Assessment Methods	Weighting	LO No.	Remarks
1	Continuous assessment of performance	30%	1-4,6,7	Each student is supervised by an academic staff, who will help the study formulate the principal question(s) of investigation, recommend relevant literature and suggest possible methodology. Student's progress is monitored regularly so as to identify any problem encountered in study and ensure he/she is likely to complete the project timely in a satisfactory manner.
2	Thesis	50%	1-7	It should include student's own account of investigations and findings, with a systematic and critical exposition of knowledge in literature. The student is also required to present materials coherently, with all the necessary references cited.
3	Oral presentation	20%	5-7	Each student is also assessed on the ability to communicate project aims, methodology and investigations/findings effectively.