

HKU Summer Institute 2021

High School Programmes

Course Details											
Course Code	HS-MARTHA2021										
Course Title	MARTHA 數藝同行										
Credit Bearing Programme	N/A										
Course Description	MARTHA, or “Math – Art – Abreast”, means “Mathematics and Art <i>do something</i> Abreast”. This program is for senior secondary school students to learn how mathematics can be used in creative way to produce art and magic. By means of a wide variety of hands-on activities and in-class performance, students will learn the underlying mathematical theory to create their own beautiful art images and design their own magical show. Software such as <i>GeoGebra</i> will be used for the part on artistic design and as a means to facilitate the understanding of mathematical concepts.										
Course Outline	It is a 4-day program consists of two 2.5-hour workshops per day. In every workshop, relevant mathematical knowledge (and coding techniques if applicable) would be introduced. Candidates (individual or grouped) would apply what they have learnt and make their own designs.										
Learning Outcomes	<p>On successful completion of this course, students should be able to:</p> <table border="1"> <thead> <tr> <th colspan="2">Course Learning Outcomes (CLO)</th> </tr> </thead> <tbody> <tr> <td>CLO 1</td> <td>explain some magic tricks using mathematical arguments</td> </tr> <tr> <td>CLO 2</td> <td>recognize the mathematical elements in some artistic designs</td> </tr> <tr> <td>CLO 3</td> <td>make use of software (e.g., GeoGebra, Scilab) for a variety of purposes</td> </tr> <tr> <td>CLO 4</td> <td>design their own artistic work and/or perform a magic show based on their mathematical knowledge learnt in the course</td> </tr> </tbody> </table>	Course Learning Outcomes (CLO)		CLO 1	explain some magic tricks using mathematical arguments	CLO 2	recognize the mathematical elements in some artistic designs	CLO 3	make use of software (e.g., GeoGebra, Scilab) for a variety of purposes	CLO 4	design their own artistic work and/or perform a magic show based on their mathematical knowledge learnt in the course
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Assessments	In-class activities and individual/group presentations/performance										
Language of Instruction	English										

Class Schedule	
Course Period	July 12 - 16, 2021
Class Day & Time	Monday, Tuesday, Thursday & Friday 10:00 - 12:30 & 14:30 - 17:00
Venue	This course will be conducted via Zoom or other platforms (to be announced).

Application	
Pre-requisite	S4 - S6, or Equivalent, in the academic year 2020-2021.
Remarks	Accommodation: Not Applicable
Online Application	Please visit the webpage of "M@RTHA 數藝同行" for Online Application .
Course Fee	HK\$3,300
Early Bird Offer	Apply on or before February 28, 2021 <ul style="list-style-type: none"> ▪ 5% discount on course fee
Summer Scholarships offered by HKU Academy for the Talented	20% discount on course fee *This discount is not in conjunction with other discounts
Deadline for Application	June 14, 2021

Enquiries
<p>Tel: 2241 5199 / 2859 2250 Email: AMGS@maths.hku.hk Url: http://www.math.hku.hk/ Department of Mathematics, The University of Hong Kong</p>

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