



Astronomy II Course (Level 4) Journey To Mars 2025 (SCIS2034)

Introduction

The rise of private space enterprise and new rocket development have made the human mission to Mars closer to reality than ever. This course provides a guide to designing a manned mission to Mars using laws of physics and mathematics. Students can also experience space exploration through a digital planetarium and stargazing under the midsummer sky with a large telescope.

Programme Type / Level

Astronomy II Course (Level 4) ([Token-required](#))

Instructor(s)

Teachers of Galaxy Scientific Group

Target Participants



- S4 – S6 HKAGE student members
- Class size: 30

Medium of Instruction



English with English handouts

Certificate



E-Certificate will be awarded to participants who have:

- ❖ Attended **AT LEAST 3 sessions AND**
- ❖ Completed all the assignments with **satisfactory performance**

Intended Learning Outcomes



Upon completion of the programme, participants should be able to:

1. Apply the three Kepler's laws of planetary motion;
2. Design a trajectory for a manned mission to Mars using laws of physics and mathematics;
3. Set up a telescope and use a star map.

Screening



Please answer the screening question in the online application form.

*The screening question is designed to help the applicant understand the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the basic knowledge of Astronomy in the screening question can be enrolled in the programme.

Application Deadline

1st batch: 17 May 2019 12 n.n.
2nd batch: 6 Jun 2019 12 n.n.

Application Result Release Date

1st batch: 24 May 2019
2nd batch: 15 Jun 2019

Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.

Schedule



Session	Date	Time	Venue
1	20 Jul	14:00-17:00	HKAGE (TBC)
2		18:30-21:30	Hong Kong Federation of Youth Groups Jockey Club Sai Kung Outdoor Training Camp
3	27 Jul	14:00-17:00	HKAGE (TBC)
4		18:30-21:30	Tai Po Waterfront Park or Tai Mei Tuk

*There will be two evening classes where we will visit other external astronomical centers. The instructor has already arranged a chartered shuttle bus for pick-ups between the Academy and class venues. Evening classes will be dismissed at the Academy. Details will be explained during class.

*The evening stargazing activity class maybe cancelled and postponed to a later date accordingly due to inclement weather, please watch out for the instructor's arrangements.

Enquiries



For enquiries, please contact us at 3940 0101 After language selection, press "1".