



E3AST002C

(Token- required)

Astronomy Course (Level III): Cosmic Dawn – Ground-Breaking Views of James Webb Space Telescope

Teachers of Galaxy Scientific Group



Application Deadline
4 Sep 2023 12:00 noon

Result Release
15 Sep 2023

Intended Learning Outcomes

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

1. identify the scientific objectives of James Webb Space Telescope and describe some of the latest results from the telescope;
2. explain the advantages of observing in infra-red wavelength;
3. derive the locations of some Lagrange points;
4. identify bright stars by using planisphere;
5. set up and use telescopes to make observations;
6. discuss ethical issues in space exploration.

◆ Introduction

After decades of development, the successor of the Hubble Space Telescope, James Webb Space Telescope, was launched successfully on Christmas 2021 and has started delivering ground-breaking views of the universe. The course deconstructs the science behind this technological marvel and shares the stunning scientific discoveries made so far.

Remarks: An 80-hour Advanced Learning Programme Series in Astronomy (A4AST001C, A4AST002C, and A4AST003C) would be provided in Sep 2023 – Apr 2024 (tentative). It is suitable for students who have a keen interest in astronomy. Please refer to our website for the latest information.

◆ Schedule

Session	Date	Time	Venue
1	14 Oct	1:00 p.m. – 4:00 p.m.	HKAGE Classroom 29, 2/F, Buddhist Kok Kwong Secondary School
2		6:00 p.m. – 9:00 p.m. 5:15 p.m. – 8:30 p.m.	Galaxy Scientific Group Activity Centre at So Kwun Wat ^[1]
3	21 Oct	1:00 p.m. – 4:00 p.m.	HKAGE Classroom 28, 2/F, Buddhist Kok Kwong Secondary School
4		6:00 p.m. – 9:00 p.m. 5:30 p.m. – 8:30 p.m.	Galaxy Scientific Group Activity Centre at So Kwun Wat ^[1] HKFYG Jockey Club Sai Kung Outdoor Training Camp ^[2]

Addresses: ^[1] DD378 Lot 389, Ching Uk Tsuen, So Kwun Wat, Tuen Mun

^[2] DD256, Tai Mong Tsai Road, Sai Kung

Remarks:

- There will be two evening classes where we will visit other external astronomical centres. 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 classes may be cancelled or postponed to a later date accordingly due to inclement weather, please watch out for the instructor's arrangements.

◆ Target Participants

- S3 to S6 HKAGE student members in 2023/24 school year
- Class size: 35

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

Cantonese with English Handouts

◆ Screening

Please answer the screening questions in the online application form.

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

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 3 sessions; and
- completed all the assignments with satisfactory performance.