香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education

Stream Ecology (SCIP2211)

Introduction	A freshwater stream is the habitat of dozens of species of animals and plants which mutually influence each other, creating energy flow and material cycles. Environmental factors, like water flow, light intensity and shapes of sand grains and stones, can have an influence on the entire ecosystem of a stream. This course will introduce students to the basic concepts of ecosystem and the characteristics of the ecosystem of a stream. Students will create a small ecosystem to observe the relationships among various organisms. This course includes a field trip for exposing students to the experience of doing ecosystem research; students will be required to collect samples from a stream and bring them back to the laboratory for analysis.
Programme Type / Level	Intermediate Course in Environmental Science (Token-required) (Core Programme)
Instructor(s)	Mr. Tong Ling Poon, Panel Head of Biology of Cheung Chuk Shan College (This programme is co-organized with Cheung Chuk Shan College)
Target Participants	➢ P5 to P6 HKAGE student members ➢ Class size: 20 * Priority will be given to student members who are in Mathematics and Sciences domain
Medium of Instruction	Cantonese, with Chinese Notes
Certificate	**Certificate** will be awarded to participants who have: ❖ Attended **ALL** sessions AND ❖ Completed all the assignments with satisfactory performance
Intended Learning Outcomes	Upon completion of the programme, participants should be able to: 1. Critically evaluate on the effect of light intensity on an aquatic ecosystem; 2. Evaluate the roles of various organisms in energy transfer and the cycling of materials in an ecosystem; 3. Investigate the adaptations of fresh water organisms; 4. Analyze the characteristics of common fresh water organisms.
Screening	Please answer the screening question in the online application form. *The screening question is designed to help the applicant understands 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 knowledge in environmental characteristics in ecosystems in the screening question can be enrolled in the programme.

Application Deadline	**4 March, 2015**	Application Result Release Date	**6 March, 2015**

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

Schedule

Session	Date	Time	Venue
1	14 Mar	9:30 a.m. – 12:30 p.m.	Cheung Chuk Shan College Biology Laboratory [2]
2	21 Mar	9:30 a.m. – 1:00 p.m.[1]	Cheung Chuk Shan College Biology Laboratory / Field Study
3		1:30 p.m. – 5:30 p.m.	Cheung Chuk Shan College Biology Laboratory *

Address: 11 Cloud View Road North Point Hong Kong (Map)

[1] Lunch Time: 1:00 p.m. – 1:30 p.m., please bring your own lunch.

[2] Bring two identical transparent bottles/containers with caps for making aquatic mini-ecosystems in the first session.

Enquiries

For enquiries, please contact us at 3940 0178 or 3940 0102.