



## Experiencing Local Ecosystems (SCI3411)

25 Sep 2010 to 23 Oct 2010

Co-organiser: *The Chinese University of Hong Kong*

“Experiencing Local Ecosystems” is a programme on environmental sciences for gifted students in Science domain. Objectives of the programme included to enrich students’ understanding in environmental science applicable to local ecosystems and to support environmental science learning. Students will have the opportunity to gain hands-on scientific field works experience and to promote conservation of local habitats with scientific support.

### Programme Details

Intended Learning Outcomes	After taking the enhancement programme, students should be able to: <ol style="list-style-type: none"><li>1. Understand appropriate background and ideas on environmental change at macro and micro scales;</li><li>2. Identify key factors and living organisms that support the balance of local eco-systems;</li><li>3. Undertake field works as first-hand observation and data collection, using appropriate apparatus and tools;</li><li>4. Analyse, evaluate and list hypotheses using appropriate statistical and scientific techniques;</li><li>5. Understand causes and impacts of environmental changes in local eco-systems.</li></ol>
Date	25 Sep, 2 Oct, 9 Oct & 23 Oct 2010 (Saturdays) * Please find the attached <b>Programme Schedule</b> for details
Time	9:30 am to 4:30 pm (excluding lunch hour)
Venue	<ol style="list-style-type: none"><li>1. Lecture theaters and teaching laboratories at the Science Centre, CUHK (<b>First session at Rm. 295 Science Centre, CUHK</b>);</li><li>2. Different portions of a freshwater stream in Tai Po area; and</li><li>3. A woodland in Tai Po area.</li></ol>
Target Participants	S1 or above
Quota	30 student members

<b>Language</b>	Teaching materials will be prepared in Chinese and supplemented with English translations of scientific terms. Lectures, field trips and laboratory sessions will be conducted in Cantonese.
<b>Course Requirement</b>	<p><b><u>Certificate of Completion</u></b> will be awarded to participants who are able to fulfill all the course requirements which include:</p> <ul style="list-style-type: none"> <li>❖ At least 80% attendance AND</li> <li>❖ Awarded grade D or above in the course assessment</li> </ul> <p>All participants will also receive an academic report issued by the Faculty of Science, CUHK.</p>
<b>Course fee</b>	Free of charge
<b>Application procedure &amp; deadline</b>	<ul style="list-style-type: none"> <li>❖ Students should download the Application Form from the following website: <a href="http://www.hkage.org.hk">http://www.hkage.org.hk</a></li> <li>❖ Students should submit the completed Application Form to <i>The Hong Kong Academy for Gifted Education</i> by mail or by fax (<i>Fax number: 2490 4730</i>) on or before <b>13 Sep 2010 (Mon)</b>. Late application will not be considered.</li> <li>❖ The list of successful applicants will be posted on the website <a href="http://www.hkage.org.hk">http://www.hkage.org.hk</a> after 5:00pm on <b>17 Sep 2010 (Fri)</b>. No further notification will be made.</li> <li>❖ Successful applicants should download a “Confirmation Slip” from the above website. Completed Confirmation Slip should be faxed to the Academy by <b>22 Sep 2010 (Wed)</b>.</li> </ul>
<b>Enquiry</b>	For enquiries, please contact Ms Yip at 3698 3498 or Mr Kwong at 3698 3494.

## Programme Schedule

Day	Time	Event
25/9/2010	am	Lecture: Ecosystems on Earth and Climatic factors
		Laboratory session: Instrumentations and techniques for field biology research - I
	pm	Lecture: Ecosystems, their components and interactions
		Laboratory session: Instrumentations and techniques for field biology research - II
2/10/2010	am	Lecture: Local ecosystems and the impacts of environmental changes
		Laboratory session: Identification of woodland fauna and flora
	pm	Field trip to a woodland habitat
9/10/2010	am	Lecture: Stream ecology
		Laboratory session: Practical techniques of studying stream ecology
	pm	Mini project: Field trip to a freshwater stream
23/10/2010	am	Laboratory session: Processing of field data collected on Day 3 and construction of PowerPoint for group presentation
	pm	Final PowerPoint construction and Group Presentation on Mini project results, closing ceremony