

Subject Code	BME2S03
Subject Title	Reducing the Scientific Divide in Secondary Students through STEM (Science, Technology, Engineering and Mathematics) Projects
Hosting Dept	Interdisciplinary Division of Biomedical Engineering
Level	2
Class Quota	130
Medium of Instruction	English As most service beneficiaries are Cantonese-speaking secondary school students, PolyU students who speak Cantonese may have an advantage.
Subject Duration	Semester 2 + Summer Term
Teaching Staff	Dr. Hin-chung Lau
Target Students	GUR, open for all students
Pre-requisites	Nil
Selection of Students Required?	No
Subject Synopsis	http://www.mypolyuweb.hk/~hclau/BME2S03/index.html
Service Project	
What will students do to serve?	<p>This year's theme is "Our Health - Our Ocean" (我們的健康 - 我們的海洋). Students may be required to travel and visit WWF's Hoi Ha Marine Life Centre in Week 3 or Week 4.</p> <p>The focus of the projects will be to cultivate a spirit of scientific literacy and thinking in secondary students related to human health and ocean conservation. PolyU students will be involved in the learning, teaching and designing of simple mechatronic devices to illustrate key STEM concepts to secondary students; designing worksheets to help students practice STEM concepts; organizing STEM and Marine Conservation awareness activities. The exact nature of the project may vary depending on the needs of the collaborating schools and students.</p> <p>There is a one-day competition on 10th July co-organised by WWF, YMHK and PolyU BME. PolyU students are encouraged to join and motivate your secondary students.</p>
Whom will students serve?	Teenagers studying in underprivileged secondary schools
Where will students serve?	<input checked="" type="checkbox"/> Hong Kong District:

	<input type="checkbox"/> Chinese mainland Province: _____ City: _____ <input type="checkbox"/> Taiwan <input type="checkbox"/> Macau <input type="checkbox"/> Overseas Country: _____ City: _____
When will students serve?	Exact time may vary depending on the school to which PolyU students are attached. Most activities will be held on Saturdays in February to April (There is a one-day competition on 10th July co-organised by WWF, YMHK and PolyU BME. PolyU students are encouraged to join and motivate your secondary students). Please refer to the subject website for the latest information: http://www.mypolyuweb.hk/~hclau/BME2S03/index.html
Fee payable by students	N/A
Enquiry	Dr. Hin-Chung LAU (Tel: 2766 7674; Email: hinchung.lau@polyu.edu.hk)

Remarks: The information given above is subject to change.