

Subject Code	BME2S03S
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	100
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	Summer Term
Teaching Staff	Dr. Hin-chung Lau, Dr. Yan Ping HUANG and Dr. Thomas Ming-hung Lee
Target Students	GUR, open for all students from FENG, FCE and FAST
Pre-requisites	Nil
Selection of Students Required?	No
Subject Synopsis	<a href="http://www.polyu.edu.hk/bme/assets/Syllabus/UG/BME2S03S.pdf">http://www.polyu.edu.hk/bme/assets/Syllabus/UG/BME2S03S.pdf</a>
<b>Service Project</b>	
What will students do to serve?	PolyU students will work in groups and be attached to underprivileged secondary schools. The focus of the projects will be on teaching and learning STEM concepts and theories while cultivating a spirit of scientific literacy and thinking. Example service learning projects include designing muscle-signal controlled games to illustrate key STEM concepts to secondary students; designing worksheets to help students practice STEM concepts; assist students with STEM subjects; organizing STEM awareness workshops and activities, etc. The exact nature of the project may vary depending on the needs of the collaborating schools. The theme for 2015 Semester 3: EMG-controlled Doll Catcher (肌電夾公仔機).
Whom will students serve?	Teenagers studying in underprivileged schools
Where will students serve?	Hong Kong
When will students serve?	Exact time may vary depending on the school to which PolyU students are attached.  School A: 19,23,25,26,29 and 30 June. (subject to confirmation)

Updated on 2 March 2015

	School B: 02,03,06,07,09 and 10 July. (subject to confirmation)
Fee payable by students	N/A
Enquiry	Miss Lillian LEE (Tel: 3400 8893; Email: <a href="mailto:lillian.lee@polyu.edu.hk">lillian.lee@polyu.edu.hk</a> )

Remarks: The information given above is subject to change.