

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	https://www.polyu.edu.hk/bme/en/community-services/BME2S03
Service Project	
What will students do to serve?	The theme for 2016 is Muscle-electrical-signal controlled game (肌電遊戲機). The focus of the projects will be to cultivate a spirit of scientific literacy and thinking in secondary students. PolyU students will be involved in the learning, teaching and designing of muscle-signal controlled games to illustrate key STEM concepts to secondary students; designing worksheets to help students practice STEM concepts; organizing STEM awareness workshops, activities or competitions etc. The exact nature of the project may vary depending on the needs of the collaborating schools.
Whom will students serve?	Teenagers studying in underprivileged secondary 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. Most activities will be held on Saturdays. School A: FEB 27, MAR 05,12,19, APR 02 and JUL 28 (subject to confirmation)

	School B: MAR 05,12,19, APR 02, 09 and 16 (subject to confirmation)
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.