

Subject Code	BME2S03S
Subject Title	Reducing the Scientific Divide in Secondary Students through STEM (Science, Technology, Engineering and Mathematics) Projects
Hosting Department	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	1-Semester (Summer Term)
Teaching Staff	Dr. Hin Chung LAU, Dr. Thomas LEE, Prof. YP ZHENG, Prof. Raymond TONG, and Dr. Eric TAM
Target Students	GUR for students from FENG, FCE and FAST
Pre-requisites / Requirements	Nil
Selection of Students Required?	No
Subject Synopsis	<a href="http://www.polyu.edu.hk/bme/programmes/Syllabus/UG/BME2S03S.pdf">http://www.polyu.edu.hk/bme/programmes/Syllabus/UG/BME2S03S.pdf</a>
Service Project	
What will students do to serve?	Students will work in groups and be attached to the resource-poor 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 projects to illustrate key STEM concepts to school children; designing worksheets to help the children practice STEM concepts; assisting children with STEM subjects; organizing STEM awareness workshops and activities for children, etc. The exact nature of the project will vary depending on the needs of the school that the students are serving.
Whom will students serve?	Children and teenagers studying in underprivileged schools
Where will students serve?	Hong Kong
When will students serve?	Exact time will vary depending on the school to which the students are attached. Some project activities may be held on weekends. For summer 2014, students may be required to travel to the secondary school in the morning for 5 days a week between week 6 and 7 (subject to confirmation).
Enquiry	Miss Lillian LEE (Tel: 3400 8893; Email: <a href="mailto:lillian.lee@polyu.edu.hk">lillian.lee@polyu.edu.hk</a> )