

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	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	Semester 2 + Summer Term
Teaching Staff	Dr. Hin-chung Lau
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/programmes/Syllabus/UG/BME2S03.pdf">http://www.polyu.edu.hk/bme/programmes/Syllabus/UG/BME2S03.pdf</a>
Service Project	
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.
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. Some project activities may be held on weekends. For year 2015, students may be required to travel to the secondary school for 2 days between week 5 and 7 of Semester 3 <u>(subject to confirmation)</u> .
Fee payable by students	N/A
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