

Subject Code	BME2S03
Subject Title	Reducing the Scientific Divide in Secondary Students through STEM (Science, Technology, Engineering and Mathematics) Projects
Hosting Dept	Department 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 "STEM for Smart Ageing". Students will join a VIP tour to the Jockey Club Smart Ageing Hub (https://www.polyu.edu.hk/Ageing/en/index.php) to try out different gerontechnology products that can support elderly and care givers.</p> <p>The focus of the projects will be to cultivate a spirit of STEM literacy and engineering design thinking in secondary students related to technology and human health. PolyU students will be involved in the learning, teaching and designing of simple mechatronic devices to illustrate key STEM concepts to secondary students; guide and facilitate secondary students to build an assistive device to promote healthy lifestyle. 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 STEM competition in July for secondary students to showcase their creativity. Although not compulsory, 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:

Remarks: The information given above is subject to change.

	<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 2020 (There is a one-day STEM competition in July. PolyU students are encouraged to join and motivate your secondary students).
Fee payable by students	N/A
Enquiry	Dr. Hin-Chung LAU (Tel: 2766 7674; Email: hinchung.lau@polyu.edu.hk)