

Welcome to PSL496Y1 Translational Physiology Research Project Draft Syllabus 2017-18

Course Calendar Description [144P]: Engage in original science research, either basic or clinical, combined with a healthcare placement. Develop skills in defining scientific questions, designing experiments, analyzing data, and communicating your results. Gain insight into the power of translational “bench-to-bedside” research. Discover your interest in becoming a science researcher. Not eligible for CR/NCR option.

Course Goal: To engage undergraduate science trainees in translational research.

Although there have been many recent advances in biomedical research, their translation into improving human health has been slow. Translational research aims to speed up this process by increasing the iterative interchange between basic and clinical science observations and applications. Thus, key recommendations for improving disease prevention, diagnosis and treatment involve exposing scientists, clinicians and their trainees—including undergraduates—to both basic and clinical science, and providing credit for this training.

Learning Objectives: By the end of the course, students will be able to demonstrate:

- proficiency in undertaking original science research
- insight into the power and process of translational research to improve human health
- ability to critique original scientific literature
- skill in communicating basic and clinical science research
- awareness of bioethical issues relating to practicing, disseminating and translating science research

Evaluation:		
	Grade total	Due Date(s)
<i>A. Translational Research Project</i>	85%	
Research Proposal	10%	Sept.
Laboratory Performance	15%	Dec. & Apr.
Poster Presentation	20%	Feb.
Manuscript	40%	Apr.
<i>B. Translational Enhancement</i>	15%	
Translational forums (after clinical & basic science seminars, clinical rounds & placements, etc.)	5%	Sept. - Mar.
Healthcare placement written reflections	5%	Sept. - Mar.
Healthcare placement professionalism assessments	5%	Nov. & Mar.