Creating Life Science Products BTC1850H

Course Topics Fall 2015/Winter 2016

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Interdisciplinary Teams Focused on Product Development

This is an interdisciplinary graduate course which draws together students to focus on a singular product problem. A diverse cross section of students will be drawn from biomedical engineering, law, business, biotechnology, computer science, biology and design disciplines (e.g. OCAD University).

The course format is discussion and team work. This is not a lecture based course (there are a few short lectures). Graduate teams will engage in independent learning to pursue their unique problem area in the health and wellness domain, to understand user needs and propose a simple product solution.

Dedicated Course Website - linking industry experts to students.

This web site will display active projects in the course and allow communication between student teams and potential industry experts who may wish to partner with students on their idea. By invitation only, select experts from industry who have partnership interests will choose projects of interest to them conducted by cross functional student teams.

Course location: OISE (Ontario Institute for Studies in Education) Room 2-212. 252 Bloor Street West. Toronto.

Time: Held downtown Toronto on the University of Toronto campus, every other Monday evening 6:30 PM - 9:30 PM.

Grade Milestones & Class Format

The course is discussion & team based with limited lecturing. Evaluations will be based on:

- participation / attendance (10%),
- website updates (5%),
- technology competitor analysis (10%),
- product regulatory review (5%),
- product scientific feasibility (5%),
- final report (30%),
- final presentation (10%)
- final exam (20%)

Course Instructor

Dr. Jayson Parker is a Lecturer in medical biotechnology in the Department of Biology at the University of Toronto Mississauga. He lectures in the Master of Biotechnology Program, Faculty of Law and the Institute of Biomaterials and Biomedical Engineering. His main research interests include: biomarkers & clinical trial risk, machine learning, biotechnology patents and medical device regulation.

Questions?: jayson.parker@utoronto.ca

Blood thinner App

One example of a product proposal from a graduate student team in the past. Creating simple revenue generating products in healthcare is a theme shared by all projects. Many disciplines are needed for such projects including design.

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What do users want?

- Calendar: INR & Diet Tracking
- Trend Analysis

Select: Date

Input: INR, Dose, Diet

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