**Pun (Doug) Yung**

Mobile Health Technology

* Spring 2, 8 weeks
* Thursday 4:30 pm – 6:00 pm

Global healthcare is confronted with overarching opportunities and challenges. The delivery of health information and services is no longer tied to traditional “brick and mortar” hospitals and clinics. There is a multifactorial transformation in the healthcare landscape through digital diagnostics and personalized medicine. The course will provide a broad overview and present the fundamental principles of the application of mobile health technology in healthcare, wireless sensing and remote monitoring, telemedicine, mobile platforms, big data, electronic medical records, personalized medicine and diagnostics.

Students will learn to design and develop mobile apps for both Android and iOS platforms. Students will be introduced to code-free tools to develop mobile apps from scratch. Prior programming experience is not necessary. Students will work throughout the course to produce an application of interest to healthcare.

**Course objectives**

* Understand the general model of a personalized health system, including wearable sensor technology, sampling, and communication principles
* Gain a basic understanding of computer architecture and object-oriented programming
* Understand mobile application design principles
* Design and develop mobile applications to transmit medical and health data across wireless channels