Course Title
Mobile Sensing, Comp, and Appl

Instructor
He Wang

Course Description
This course will introduce cross-disciplinary ideas, techniques, and algorithms in mobile computing, with an emphasis on how they can be composed to build systems and applications for smartphones, wearables, quadcopters, and other mobile devices. Topics of interest include multi-modal sensing (on smartphones, smartwatches, wearable glasses), energy efficiency, Internet of Things (IoT), indoor localization, context-awareness, activity and gesture recognition, CPU-offloading, and sensor data analytics. The course will end with a system/app that students have to develop and demonstrate using techniques learnt in class (or additional techniques in discussion with the instructor).

Course Load
Course load entails writing reviews for research papers (around 1.5 reviews per class on average), a mini programming assignment to prepare for the project, plus a full-scale final project to be demonstrated at the end of the semester.

Grading Information
Reviews and presentation: 20%
Programming assignment: 15%
1 mid-term exam: 25%
Final Project: 40%

The mid-term will be a normal course period. No final exams.