Topics in Wearable Computing

INF 632
Monday and Wednesday 12:45 - 2:00
Dr. Winfree (kyle.winfree@nau.edu)

This project-based course is intended to provide a graduate-level study of wearable technologies, including the use of commercially available devices, such as the Fitbit. The course centers on the application of wearable technologies in healthcare and wellness. Topics include applications of wearable technologies in health research, comparative studies, projects involving the creation of custom health monitoring devices, data analysis, real-time analysis techniques, and machine learning. Students will engage in iterative design projects that explore and apply a variety of wearable technology techniques and scholarly literature reviews that explore open research areas in the field.

By the end of the course, you will have designed and created a wearable computing device, implemented several methods of statistical learning, and explored aspects of feedback such as haptic interfaces.