Genomic Analysis I
(PED 5750 - for students)
(PED 575 - for faculty/staff)

Spring, 2016

HSEB 1750  •••  Thursdays, 2:30-3:45 pm  •••  1.5 credit hours

Genomic analysis is key to understanding cancer and other diseases, making this skill highly valuable for research jobs. This course will provide students with hands-on training to perform start-to-finish analyses on next generation sequencing (whole genome sequencing, whole exome sequencing) and microarray data to identify and assess risk variants, mutations, and copy number aberrations. An introduction to study design, basic linux scripting, statistics, and genome biology/technologies will be included. Students will complete an entire genomic analysis project of their choice. Genomic Analysis II in the Fall will focus on analysis of data from expression, methylation, shRNA/CRISPR, and other genomic technologies.

This course is available to all University of Utah students (PED 5750). Faculty/staff may also easily enroll in the course for academic noncredit (PED 575) without admission to the University. All classes will be instructed by Clint Mason, PhD, Assistant Professor of Pediatrics.

Additional course information available at:
home.chpc.utah.edu/~mason