 Interested in Computational Biology?
— Fall 2015 Courses —

BIO 131: Introduction to Computational Biology

We will learn about computational tools that have been developed to address fundamental questions in molecular biology. Topics include molecular sequence analysis such as identifying repeats, regulatory/binding motifs, and genetic variation. Assignments include writing Python programs to analyze human DNA, RNA, and protein sequences.

Course: 1 unit, MWF 9:00-9:50 lecture plus F 15:10-16:00 lab
Prerequisite: BIO 101 or consent of instructor
Other Info: If you have taken more CS than MATH 121, email Anna to ask if the class is appropriate

BIO 431: Computational Cancer Biology

Publicly-available data cohorts such as The Cancer Genome Atlas (TCGA) provide an opportunity to analyze biological measurements from hundreds to thousands of cancer samples. We will learn about state-of-the-art computational methods used to analyze high-throughput cancer datasets by reading and discussing primary literature.

Course: 0.5 units, M 18:10-20:00 lecture/discussion
Prerequisite: Junior or senior standing and 2 units of 300-level biology or consent of instructor
Other Info: No programming knowledge required, but some background in math may be helpful

Questions? Email Anna at aritz@reed.edu