

Genomics and Bioinformatics Tools

CSE 550 – Fall 2017

Mondays and Wednesdays: 6:15pm – 7:30pm

Lab: Online

A course for CSE, Biology and Chemistry students. Pre-requisites - Junior, Senior, or Graduate standing in CSE, Biology, or Chemistry. Further your career prospects with the knowledge of how to efficiently use common Genomics and Bioinformatics tools, in this age of “OMICS”.

Topics to be covered:

Genome browsers; Sequence database search; Pairwise and multiple sequence alignment; Gene finders; Building phylogenetic trees and phylogenetic analysis; Predicting and analyzing RNA secondary structure; Protein structure visualization; Primer designing; Introduction to Linux basics.

Instructor – Dr. Sourav Roy

PhD – Genetics, Genomics and Bioinformatics;
MS – Bioinformatics; M.Sc – Zoology (Genetics).

Assistant Researcher

Department of Entomology and
Institute for Integrative Genome Biology,
University of California Riverside.

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TTTGCTAAACAAGGTTTATAAAATAGTTG  
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AATAAGATATCTTATAATTATTGTATGACT
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