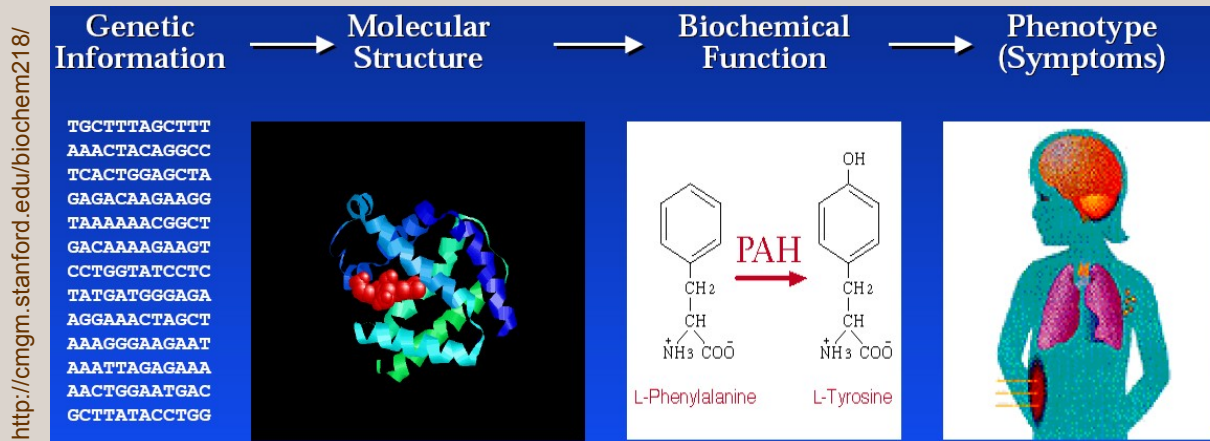


# CSE 308-408 • Bioinformatics: Issues and Algorithms

Professor Daniel Lopresti • Fall 2007 • TuTh 2:35 - 3:50

“Biology easily has 500 years of exciting problems to work on.”

– Donald Knuth (Stanford Professor & famous Computer Scientist)



By applying methods from Computer Science to the analysis of sequence data and related structures, we can help in understanding genetic nature of disease.

Topics we study in CSE 308-408:

- sequence comparison & alignment
- sequence assembly
- physical mapping of DNA
- phylogenetic (evolutionary) trees
- genome rearrangements
- RNA & protein structure prediction
- DNA microarray analysis
- Perl programming for bioinformatics

No prior knowledge of biology is required. For more details: [dal9@lehigh.edu](mailto:dal9@lehigh.edu).