

Bioinformatics Course Chart-PhD

Required Courses in Bioinformatics

Item	Course Title
1	Bioinformatics
2	Algorithms in Bioinformatics
3	Biological Databases
4	Seminar in Bioinformatics

Elective Courses in Bioinformatics

Item	Course Title
1	Biochemistry of Cellular Signaling
2	Computational Genomics
3	Structural Bioinformatics
4	Computational Drug Design
5	Chemoinformatics
6	Chemometrics
7	Machine Learning
8	Complex Networks
9	Modeling Metabolic Networks
10	Molecular Evolution and Phylogenetics

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11	Molecular Modeling
12	Discrete Stochastic Models
13	Introduction to Dynamical Systems
14	DNA Computing
15	Evolutionary Algorithms
16	Bayesian Statistics
17	Pattern Recognition
18	Design and Analysis of Algorithms
19	Multivariate Analysis
20	Enzyme Kinetics
21	Genomics and Gene Regulation
22	Biomolecular Recognition
23	Special Topics in Bioinformatics