

Structural and Computational Biology and Biophysics

List of Courses

First Year Department Requirement:		CH
BIOL 66200	Ethics	1
BIOL 66300	Oral Presentations	1
BIOL 69500PD	Tchg Asst Prof Development (for students TAing)	1

Area Selected (1st or 2nd year)

Scientific Writing (≥1 ch)

MCMP 62500	Grant Writing	1
BIOL 69500-018	Biophysics Grant Writing	1

Quantitative Analysis in Biology (3ch)

STAT 50300	Statistical Methods of Biology	3
STAT 51100	Statistical Methods	3
BIOL 59500	Practical biocomputing	3
CS 59000	Computing for Life Sciences	3

Advanced Topics Seminar (1ch)

BIOL 69500	Frontiers in Biophysics Seminar	1
BIOL 69600	Computational & Systems Biology Seminar	1

Area Approved Elective Courses (at least ≥9 credit hours total)

BCHM 60501	Macromolecules (3 ch)	3
BCHM 61000	Regulation of Eukaryotic Gene Expression (3ch)	3
BCHM 62000	Protein Mass Spectrometry and Proteomics (2 ch)	2
BIOL 59500	Intro to X-Ray Crystallography	3
BIOL 51700	Molecular Biology: Proteins (2 ch)	2
BIOL 56310	Protein Bioinformatics (3 ch)	3
BIOL 59500	CryoEM 3D Reconstruction (3ch)	3
BIOL 59500	Meth Meas Biophys Chem (3 ch)	3
BIOL 59500	Pathways in Human Health and Disease	3
BIOL 60000	Bioenergetics (2 ch)	2
BIOL 61100	Crystallography of Macromolecules	3
BIOL 64700	Membrane Protein Structural Biology (2 ch)	2
BIOL 69500	Adv Molecular Virology (3 ch)	3
BIOL 69500	Microscopy For Life Scientists (2 ch)	2
CHM 63200	Membranes: Structure & Function (3 ch)	3
MCMP 57000	Basic Principles of Chemical Action on Biological Systems (3ch)	3
MCMP 57100	Incorporation of Chemical Action Principles into Drug Design	3
BIOL 59500SBL	Structure Biology Lab	1
BIOL 59500CMA	CRISPR Mechanisms and Applications	3

Revised on 5/18/2023