

Bachelor of Science in Bioinformatics

Bioinformatics is an interdisciplinary field that develops methods and software tools for understanding biological data. As an interdisciplinary field of science, bioinformatics combines computer science, statistics, mathematics, and engineering to analyze and interpret biological data.

Requirements (72 units)

Total units required for graduation: 120

Requirements for the B.S. in Bioinformatics

(Program Code: BINF)

Lower-division requirements (50)

BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
CHEM 2300	Organic Chemistry for Life Sciences	4
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2720	Discrete Mathematics	3

Upper-division requirements (22)

BIOL 3120	Molecular Biology	4
CHEM 4100	Biochemistry I	3
CSE 4310	Algorithm Analysis	3
CSE 4880	Ethics Senior Seminar	3
CSE 5160	Machine Learning	3
CSE 5500	Advanced Bioinformatics I: Sequence Analysis	3
CSE 5720	Database Systems	3

Total Units		72
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