

Bioinformatics Core and Foundation Science Courses

Online - Summer 2025

FOUNDATION COURSES	
Chemistry	
CHEM 141—General Chemistry Lecture I (3)	5W1
CHEM 142—General Chemistry Lecture II (3)	5W2
CHEM 145—Quantitative Chemistry Lab I (1)	5W1
CHEM 146—Quantitative Chemistry Lab II (1)	5W2
CHEM 241A—Lectures in Organic Chemistry I (3)	5W1
CHEM 241B—Lectures in Organic Chemistry II (3)	5W2
CHEM 243A—Organic Chemistry Lab I (1)	Pre-session
CHEM 243B—Organic Chemistry Lab II (1)	Pre-session
Biology	
MCB 181L—Introductory Biology Lab I (1)	7W2
MCB 181R—Introduction to Molecular and Cellular Biology (3)	7W1
ECOL 182L—Introductory Biology II Lab (1)	5W1 & 5W2
ECOL 182R—Introductory Biology II (3)	5W1 & 5W2
Mathematics	
MATH 100—Math Lab (3)	7W1
MATH 112—College Algebra (3)	7W1 & 7W2
MATH 120R—Calculus Preparation (4)	7W2
MATH 122A—Functions for Calculus (1)	7W1
MATH 122B—First Semester Calculus (4)	7W2
MATH 125—Calculus I (3)	-
MATH 129—Calculus II (3)	7W2
MATH 263—Intro to Statistics & Biostatistics (3)	7W1
Computer Science	
ISTA 116—Statistical Foundations for the Information Age (3)	7W2
ISTA 130—Computational Thinking and Doing (4)	7W1 & 7W2

CORE COURSES	
ECOL 296B—Seminar in Bioinformatics (1)	-
ECOL 346—Bioinformatics (4)	-
ECOL 320—Genetics (4)	7W1 & 7W2
ECOL 335—Evolutionary Biology (4)	-
ISTA 320—Applied Data Visualization (3)	7W1 & 7W2
ISTA 321—Data Mining and Discovery (3)	7W1
ISTA 322—Data Engineering (3)	7W2
ISTA 331—Principles and Practice of Data Science	-