BACHELOR OF SCIENCE IN INFORMATICS – BIOINFORMATICS MAJOR (2023 – 2024)

Course Sequence by Semester

FALL (17hrs)	SPRING (17hrs)	FALL (15hrs)	SPRING (16hrs)	FALL (15hrs)	SPRING (16hrs)	FALL (15hrs)	SPRING (13hrs)
CSI 1401 INTRO PROGRAM I	CSI 1402 INTRO PROGRAM II		CSI 2300 INTRO DATA SCIENCE	DSC 3335 DATABASE	◊ DSC 4310 MACHINE LEARNING	◊ DSC 3310 CLOUD COMPUTING	◊ DSC 4320 VISUALIZATION
	DSC 2350 DISCRETE FOR DS	◊ DSC 2334 COMP SYSTEMS FOR DS	◊ DSC 3334 ALGORITHMS & DATA STRUCTURES	◊ DSC 3344 ANALYTICS FOR MACHINE LEARNING			◊ BINF 43C9 CAPSTONE
MTH 1321 CALCULUS 1	STA 2381 or STA 3381 STATISTICS			◊ BINF 3350 GENOMICS	◊ BINF 3360 COMP BIO	GENERAL CREDIT (3 HOURS)	GENERAL CREDIT (3 HOURS)
BIO 1305/1105 BIO 1 + LAB	BIO 1306/1106 BIO 2 + LAB	BIO 2306/2106 GENETICS + LAB		☆ BIO 4306/4106 MOLECULAR GENETICS + LAB	GTX 2302 MEDIEVAL		
REL 1310 SCRIPTURES	REL 1350 HERITAGE	CHE 1301/1101 CHEM 1 + LAB	CHE 1302/1102 CHEM 2 + LAB	CHE 3331 O CHEM 1	CHE 3332 O CHEM 2	CHE 3238 O CHEM LAB	PWR 3300 TECH WRIT
ENG 1310 WRITING	HISTORY/ SOCIAL SCIENCE	LF 11XX FITNESS	PSC 1387 or ENG 2301	* FOREIGN LANGUAGE & CULTURE DL	GTX 2301 ANCIENT	BIO ELECTIVE (4 HOURS)	LF 11 XX FITNESS
CHA 10XX CHAPEL	CHA 10XX CHAPEL		HISTORY/ SOCIAL SCIENCE				

Notes on flowchart edges: DSC 4320 VISUALIZATION requires CSI 1402, CSI 2300. CHE 3238 O CHEM LAB concurrent with ENG 1310.

Legend

Symbol	Meaning
——	Prerequisite
– – →	Prerequisite or concurrent enrollment
◊	Course offered only in semester indicated
β	Must complete course with a grade of "B" or better
☆	Request permission to register through the Biology Department request form
*	See the Foreign Language and Culture Distribution List for ECS in the Undergraduate Catalog
⬭ (dashed)	If needed to reach the graduation requirement of 124 total earned hours

History/Social Science: Six hours from Anthropology, Economics, History, Philosophy, Political Science (except PSC 1387), Psychology, Sociology, and GEOG 1300

Biology Elective: Four hours from the following: BIO 3122, 3322, 3330, 4100, 4102, 4107, 4108, 4302, 4307, 4308, 4401, or CHE 4341

NOTES: Must have 36 hours of advanced work ("3000"-"4000" courses) and a minimum of 124 hours. Must have a grade of C or better in all CSI and BIO hours counted toward the major. This flowchart is meant to be an advising tool. The BU Undergraduate Catalog serves as the student's final authority on all degree requirements.

5/23 SM