

Course Offering  
Semester: Fall 2019

**Program: BS Bioinformatics/ BioSciences/ BioTech/ MicroBio**

S.#	Code	Course Title	Status	Section	Pre-Req.	Co-Req.	Semester	Remarks
1.	BS1113	Cell Biology	Core	1	Nil	Nil	1	Shared with Biosciences/ Biotech/ Microbiology
2.	BS1111	Cell Biology Lab	Core	1	Nil	BI1113	1	Shared with Biosciences/ Biotech/ Microbiology.
3.	CSBS1133	Introduction to Programming	Required	1	Nil	Nil	1	Shared with Biosciences/ Biotech/ Microbiology
4.	CSBS1131	Introduction to Programming Lab	Required	1	Nil	CSBI1133	1	Shared with Biosciences/ Biotech/ Microbiology
5.	HMBS1002	Pakistan Studies	Humanity	1	Nil	Nil	1	Shared with Biosciences/ Biotech/ Microbiology
6.	HMBS1013	English-I	English	1	Nil	Nil	1	Shared with Biosciences/ Biotech/ Microbiology
7.	MTBS1003	Basic Mathematics	Required	1	Nil	Nil	1	Shared with Biosciences/ Biotech/ Microbiology.
8.	MTBS1013	Calculus-I	Required	1	MTBI1003	Nil	2	Shared Biosciences/ Biotech/ Microbiology
9.	BS2143	Biophysics	Required	2	Nil	Nil	2	Shared with Biosciences/ Biotech/ Microbiology
10.	HMBS1023	English-II	English	1	HMBS1013	Nil	2	Shared with Biosciences/ Biotech/ Microbiology
11.	HMBS1012	Islamic Studies / Ethics	Humanity	1	Nil	Nil	2	Shared with Biosciences/ Biotech/ Microbiology
12.	BS1153	Introduction to Immunology	Core	2	BI1113	Nil	2	Shared with Biosciences/ Biotech/ Microbiology
13.	BS1151	Introduction to Immunology Lab	Core	2	BI1111	BI1133	2	Shared with Biosciences/ Biotech/ Microbiology
14.	BS2223	Biochemistry	Core	2	BI1113	Nil	2	Share with Biosciences Biotechnology and Microbiology
15.	BS2221	Biochemistry Lab	Core	2	Nil	Nil	2	Share with Biosciences Biotechnology and Microbiology
16.	BS2223	Biochemistry	Core	2	Nil	Nil	3	Share with Biosciences Biotechnology and Microbiology
17.	BS2221	Biochemistry Lab	Core	2	BI1113	Nil	3	Share with Biosciences Biotechnology and Microbiology

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18.	BS1153	Introduction to Immunology	Core	2	BI1113	Nil	3	Share with Biosciences Biotechnology and Microbiology
19.	BS1151	Introduction to Immunology Lab	Core	2	BI1113	Nil	3	Share with Biosciences Biotechnology and Microbiology
20.	BS2143	Biophysics	Required	2	BI1133	Nil	3	Share with Biosciences Biotechnology and Microbiology
21.	HMBS2033	Technical Report Writing	English	1	HMBI1013	Nil	3	Shared with Biosciences/Biotechnology and Microbiology
22.	HMBS2123	Introduction to Logic	Humanity	2	Nil	Nil	3	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
23.	BS2713	Introduction to Bioinformatics	Core	3	Nil	Nil	4	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
24.	BS2711	Introduction to Bioinformatics Lab	Core	3	Nil	Nil	4	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
25.	BS2173	Biodiversity and Conservation	Core	2	Nil	Nil	4	Shared with Biosciences/Biotechnology and Microbiology
26.	BT3853	Agriculture Biotechnology	Core	2	Nil	Nil	4	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
27.	MB3333	Virology	Core	2	Nil	Nil	4	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
28.	MTBS2033	Statistical Methods in Biology	Required	2	Nil	Nil	4	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
29.	MTBS2033	Statistical Methods in Biology	Required	2	Nil	Nil	5	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
30.	MB3333	Virology	Core	2	Nil	Nil	5	Shared with Biosciences/Biotechnology and Microbiology/Bioinformatics
31.	BT3853	Agriculture Biotechnology	Core	2	Nil	Nil	5	Shared with Biosciences/Biotechnology and Microbiology/Bioinformatics
32.	BS2173	Biodiversity and Conservation	Core	2	Nil	Nil	5	Shared with Biosciences/Biotechnology and Microbiology/Bioinformatics

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33.	HMBS2123	Introduction to Logic	Humanity	2	Nil	Nil	5	Shared with Biosciences/Biotechnology and Microbiology/Bioinformatics
34.	BS2713	Introduction to Bioinformatics	Core	3	Nil	Nil	5	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
35.	BS2711	Introduction to Bioinformatics Lab	Core	3	Nil	Nil	5	Shared with Biosciences/Biotechnology and Microbiology/ Bioinformatics
36.	BT3853	Agriculture Biotechnology	Elective	2	Nil	Nil	6	Shared with Biosciences/Biotechnology and Microbiology/Bioinformatics
37.	HMBS2123	Introduction to Logic	Humanity	2	Nil	Nil	6	Shared with Biosciences/Biotechnology and Microbiology/Bioinformatics
38.	BS2713	Introduction to Bioinformatics	Core	3	BI2423	Nil	6	Shared with Biosciences/Biotechnology and Microbiology/Bioinformatics
39.	BS2711	Introduction to Bioinformatics Lab	Core	3	BI2421	Nil	6	Shared with Biosciences/Biotechnology and Microbiology
40.	BS4523	Functional Genomics	Core	1	Nil	Nil	6	Shared with Biosciences/Bioinformatics
41.	BS3463	Pharmacogenomics	Elective	1	BI1113	Nil	6	Shared with Biosciences/Bioinformatics
42.	MB3333	Virology	Elective	2	Nil	Nil	6	Shared with Biosciences/Biotechnology and Microbiology/Bioinformatics
43.	BS2713	Introduction to Bioinformatics	Core	3	BI2423	Nil	7	Shared with Biosciences/Bioinformatics
44.	BS2711	Introduction to Bioinformatics Lab	Core	3	BI2421	Nil	7	Shared with Biosciences/Bioinformatics
45.	BI4523	Functional Genomics	Core	1	BI1113	Nil	7	Shared with Biosciences/ Bioinformatics
46.	BI3463	Pharmacogenomics	Elective	1	BI1113	Nil	7	Shared with Biosciences/Bioinformatics
47.	MB3333	Virology	Elective	2	Nil	Nil	7	Shared with Biosciences,/Bioinformatics
48.	MGBS4003	Introduction to Management	Required	1	Nil	Nil	7	Shared with Biosciences, Bioinformatics
49.	BS4912	Project (Part-I)	Required	1	Nil	Nil	7	Shared with Biosciences, Bioinformatics
50.	BS4523	Functional Genomics	Core	1	BI1113	Nil	8	Shared with Biosciences, Bioinformatics
51.	BS3463	Pharmacogenomics	Elective	1	BI1113	Nil	8	Shared with Biosciences, Bioinformatics

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52.	MGBS4003	Introduction to Management	Required	1	Nil	Nil	8	Shared with Bioinformatics Biosciences
53.	BS4924	Project (Part-II)	Required	1	BI4912	Nil	8	Shared with Bioinformatics/ Biosciences