

## SCHOOL OF BIOLOGICAL SCIENCES

Year/Semester	New Course No	Credits	Course Name
1/Semester-I	B101	3	Biology I: Science of Life
	B141	2	Biology Laboratory-I
1/Semester-II	B102	3	Biology II: Cellular and Genetic basis of life
	B142	2	Biology Laboratory-II
2/Semester-III	B201	4	Microbiology
	B202	4	Biochemistry
	B203	4	Biophysics and Biostatistics
	B241	2	Laboratory-(Microbiology)
	B242	2	Laboratory-(Biochemistry)
	****	4	Out of Stream Elective
2/Semester-IV	B204	4	Cell Biology
	B205	4	Genetics
	B206	4	Ecology
	B243	2	Laboratory-(Cell Biology)
	B244	2	Laboratory-(Genetics)
	****	4	Out of Stream Elective
3/Semester-V	B301	4	Physiology-I (Animal)
	B302	4	Physiology-II (Plant)
	B303	4	Neurobiology
	B341	2	Laboratory-(Animal physiology)
	B342	2	Laboratory-(Plant physiology)
	B351	4	Elective 1 - Principles of Drug Design
	****	4	Out of Stream Elective
3/Semester-VI	B304	4	Molecular Biology
	B305	4	Immunology
	B306	4	Structural Biology
	B343	2	Laboratory-(Molecular Biology)
	B344	2	Laboratory-(Immunology)
	B***	4	Elective 2/ Elective 3
	****	4	Out of Stream Elective
4/Semester-VII	B401	4	Genetic Engineering
	B402	4	Developmental Biology
	B441	2	Laboratory-(Genetic Engineering)
	B442	2	Laboratory-(Developmental Biology)
	B498	4	Biology Project
	B***	4	Elective 4
	B***	4	Elective 5
4/Semester-VIII	B403	4	Bioinformatics and Computational Biology
	B404	4	Evolutionary Biology
	B443	2	Laboratory-(Bioinformatics)
	B***	4	Elective 6 / Elective 8
	B***	4	Elective 7 / Elective 8
	B499	6	Biology Project
5/Semester-IX	B***	4	Elective 9
	B***	4	Elective 10
	B598	16	Biology Project
5/Semester-X	B***	4	Elective 11
	B***	4	Elective 12
	B599	16	Biology Dissertation

*Charita Loman*  
17/7/2012

### List of Compulsory courses

Year/Semester	Course No	Credits	Course Name
1/Semester-I	B101	3	Biology I: Science of Life
	B141	2	Biology Laboratory-I
1/Semester-II	B102	3	Biology II: Cellular and Genetic basis of life
	B142	2	Biology Laboratory-II
2/Semester-III	B201	4	Microbiology
	B202	4	Biochemistry
	B203	4	Biophysics and Biostatistics
	B241	2	Laboratory-(Microbiology)
	B242	2	Laboratory-(Biochemistry)
2/Semester-IV	B204	4	Cell Biology
	B205	4	Genetics
	B206	4	Ecology
	B243	2	Laboratory-(Cell Biology)
	B244	2	Laboratory-(Genetics)
3/Semester-V	B301	4	Physiology-I (Animal)
	B302	4	Physiology-II (Plant)
	B303	4	Neurobiology
	B341	2	Laboratory-(Animal physiology)
	B342	2	Laboratory-(Plant physiology)
3/Semester-VI	B304	4	Molecular Biology
	B305	4	Immunology
	B306	4	Structural Biology
	B343	2	Laboratory-(Molecular Biology)
	B344	2	Laboratory-(Immunology)
4/Semester-VII	B401	4	Genetic Engineering
	B402	4	Developmental Biology
	B441	2	Laboratory-(Genetic Engineering)
	B442	2	Laboratory-(Developmental Biology)
	B498	4	Biology Project
4/Semester-VIII	B403	4	Bioinformatics and Computational Biology
	B404	4	Evolutionary Biology
	B443	2	Laboratory-(Bioinformatics)
	B499	6	Biology Project
5/Semester-IX	B598	16	Biology Project
5/Semester-X	B599	16	Biology Dissertation

### List of Elective courses

Year/Semester	Course No	Credits	Course Name
3/Semester-V	B351	4	Principles of Drug Design
3/Semester-VI	B352	4	Endocrinology
	B353	4	Plant Developmental Biology
4/Semester-VII	B451	4	Advanced Cell Biology
	B452	4	Biotechniques
4/Semester-VIII	B453	4	Advanced Biochemistry
	B454	4	Advanced Microbiology
	B455	4	Enzymology
5/Semester-IX	B551	4	Advanced Molecular Biology
	B552	4	Advanced Immunology

*Chandra Kumar*  
17/4/2012

5/Semester-X	B553	4	Infectious Disease Biology
	B554	4	Cancer Biology
	B555	4	Advanced Genetics
	B556	4	Immune regulation and Infection immunity

List of other approved elective courses that can be offered later depending on the interest of the students and availability of the faculty

Year/Semester	Course No	Credits	Course Name
4 <sup>th</sup> Year	B456	4	Advanced Neurobiology
5th Year	B558	4	Quantitative Biology

*Chandra Herman*  
17/04/2012