

**LIST OF COURSES OFFERED IN THE BIOLOGY PROGRAM**

<b>BS-MS curriculum in Biology</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
<b>Foundational courses (Semester I-IV)</b>		
BIO110	Basic Biology	0
BIO111	Foundations of Biology I: Basic Principles	3
BIO112	Biology Lab I: Basic Biology	3
BIO121	Introductory Biology II: Genetics and Molecular Biology	3
BIO122	Biology Lab II: Biochemistry and Molecular Biology	3
BIO211	Foundations of Biology III: Evolution and Ecology	3
BIO213	Biology for Society	3
BIO221	Introductory Biology IV: Biology of Systems	3

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
<b>Advanced Courses (Semester V-VIII) Master level</b>		
BIO311	Introductory Immunology	4
BIO312	Biochemistry	4
BIO313	Evolution	4
BIO315	Molecular Plant Physiology	4
BIO316	Neurobiology	4
BIO318	Genetics	4
BIO319	Behavioural Ecology	4
BIO321	Microbiology	4
BIO324	Animal Physiology	4
BIO325	Cancer Biology	4
BIO327	Advanced Ecology	4
BIO328	Advanced Molecular Biology	4
BIO337	Pandemics-Disease and Prevention	3
BIO339	Separation Science & Techniques	3
BIO341	Cell Biology	3
BIO412	Animal Developmental Biology	4
BIO413	Big Data in Biology	4
BIO419	Data Science I	4
BIO423	Applied Plant Biology	4
BIO425	Plant Developmental Biology	4
BIO427	Bioinformatics Lab	4
BIO429	Data Science II	4
BIO431	Fluorescence in Biology	3
BIO433	Plant Stress Biology for Sustainable Agriculture	3
BIO435	Infection Biology	3
BIO441	Biophysics	3
BIO442	Elements of Structural Biology	4
BIO444	Chemical Biology	3
BIO445	Advanced Neuroscience	3
BIO461	Genome Sequence Analyses	3