

Bachelor of Science Advanced (Honours) Program				
	Sr. No.	Subjects	CREDITS	CODE
Semester I	1	Calculus	4	UM_MTH101
	2	Introductory Classical Physics	4	UM_PHY101
	3	Introductory and Organic Chemistry	4	UM_CHM101
	4	The Diversity of Life	4	UM_BIO101
	5	English, Critical Thinking & Communication	2	UM_IDC101
	6	Environmental Sciences	3	UM_CSU2057
	7	Basic Aptitude I	1	UM_LSBA001
Total			22	
Semester II	1	Algebra	4	UM_MTH201
	2	Modern Physics	4	UM_PHY201
	3	Inorganic and Physical Chemistry	4	UM_CHM201
	4	Biology of Cells	4	UM_BIO201
	5	Scientific Computation and Modelling: Introduction to simple models and programming	2	UM_IDC201
	6	Research Methodology	2	UM_CSU2171
	7	Research	2	UM_CSU2172
Total			22	
Semester III	1	Vector Calculus and Differential Equations	4	UM_MTH301
	2	Quantum Mechanics and Thermodynamics	4	UM_PHY301
	3	Chemistry: Reactions and Synthesis	4	UM_CHM301
	4	Functional Biology of Organisms	4	UM_BIO301
	5	Scientific Computation and Modelling: Projects*	2	UM_IDC301
	6	Publication Ethics	2	
	7	Research	2	
Total			22	
Semester IV	1	Probability and Statistics	4	UM_MTH401
	2	Electricity, Magnetism, Soecial Relativity, and Optics	4	UM_PHY401
	3	Chemistry: Structure and properties	4	UM_CHM401
	4	Genetics, Evolution and Ecology	4	UM_BIO401
	5	Data Science Project	2	
	6	Scientific Writing	2	
	7	Research	2	
Total			22	