BSc BIOLOGY: DEGREE REQUIREMENTS FOR 2020-2021 PROGRAM TOTAL CREDITS REQUIRED: 120 / MINIMUM CGPA FOR CONFERRAL: 2.00

	CR REQ	CRS PFX	CRS#	GR	CR		CR REQ	CRS PFX	CRS#	GR	CR	
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MAJOR REQUIREMENTS - MINIMUM GRADE: C - MINIMUM GPA FOR CONFERRAL: 2.30						
Introductory Biology (Lab Course)	3	BIOL	119			
Biological Diversity (Lab Course)	3	BIOL	120			
Principles of Ecology (Lab Course)	3	BIOL	230			
Heredity (Lab Course)	3	BIOL	277			
Animal Physiology (Lab Course)	3	BIOL	364			
Plant Physiology (Lab Course)	3	BIOL	365			
Cellular Biology (Lab Course)	3	BIOL	374			
Introduction to Research	3	BIOL	391			
Speciation	3	BIOL	424			
FROM THE FOLLOWING (BIOL >299)	15					
Conservation Biology		BIOL	318			
Boreal Ecology		BIOL	320			
Vertebrate Biology (Lab Course)		BIOL	327			
Histology (Lab Course)		BIOL	340			
Invertebrate Biology (Lab Course)		BIOL	350			
Tropical Field Biology (Lab Course)		BIOL	360			
Coastal Field Biology		BIOL	362			
Northern Field Biology		BIOL	367			
Developmental Biology (Lab Course)		BIOL	375			
Immunology (Lab Course)		BIOL	410			
Flora and Fauna (Lab Course)		BIOL	415			
Biogeography		BIOL	425			
Protected Area Management		BIOL	430			
Virology		BIOL	435			
Co-operative Research (up to 15 credits)**		BIOL	475			
Biological Research (1)		BIOL	490			
Seminar in Biological Sciences (1)		BIOL	496			
Other BIOL 3xx, 4xx						
TOTAL	42					

COGNATE REQUIREMENTS - MINIMUM GRADE: D							
Introductory University Chemistry I (Lab Course)	3	CHEM	111				
Introductory University Chemistry II (Lab Course)	3	CHEM	112				
Organic Chemistry I (Lab Course)	3	CHEM	241				
Organic Chemistry II (Lab Course)	3	CHEM	242				
General Physics I (Lab Course)	3	PHYS	111				
General Physics II (Lab Course)		PHYS	112				
1 OF THE FOLLOWING	3						
Biochemical Molecules (Lab Course)		вснм	310				
Biochemical Processes (Lab Course)		вснм	315				
1 OF THE FOLLOWING	3						
Elementary Calculus I (recommended)		MATH	161				
Introduction to Statistics		MATH	240				
TOTAL	24						

BREADTH REQUIREMENTS	* - MININ	IUM GRADE:	: D	
RELIGIOUS STUDIES	9			
RELB, RELG, RELH, RELT course >299 (3)		REL_		
RELB, RELG, RELH, RELT courses (6)				
1)		REL_		
2)		REL_		
HUMANITIES	6			
No more than 3 credits from any one discipline Select from: ARTH, ENGL 201, 202, 203, 212, 275, 295, 330, 460, MUHL 165, PHIL				
1)				
2)				
SOCIAL SCIENCES	6			
Select from: ANTH, ECON, HIST, INTL, PLSC, PSYC, SOCI				
1)				
2)				
SCIENCES	3			
Select from: HLED, ODPU, OPAT, PEAC, PETH, SCNC				
TOTAL	24			

ELECTIVES - MINIM	UM GRA	ADE: D		
General Electives >199	18			
General Electives >299	6			
General Electives	6			
TOTAL	30			

 $^{{}^{\}star}\operatorname{Scholars}\operatorname{Program}\operatorname{replaces}\operatorname{Breadth}\operatorname{Requirements}.\operatorname{See}\operatorname{Scholars}\operatorname{Advisor}\operatorname{for}\operatorname{details}.$

^{**} Successful completion of both the BSC BIOL degree and a co-op/internship work assignment may lead to temporary or permanent federal public service positions if the student meets the merit criteria and conditions of employment. (For Co-operative Research Internship consult with department.)

BIOLOGY

BIOLOGY - BSc

The major in Biology is designed to provide students with an introduction to the various subdisciplines of Biology. It prepares students for entrance into graduate school. It also provides students with the opportunity to prepare for medicine, dentistry, and other health professions.

Notes:	

RECOMMENDED COURSE SEQUENCE**

BSc BIOLOGY

PR	Year 1, Fall	Cr
MJ	BIOL 119	3
CG	CHEM 111	3
BR	Breadth Requirement	3
BR	Breadth Requirement	3
BR	Breadth Requirement	3
		15

PR	Year 1, Winter	Cr
MJ	BIOL 120	3
CG	CHEM 112	3
BR	Breadth Requirement	3
BR	Breadth Requirement	3
BR	Breadth Requirement	3
		15

PR	Year 2, Fall	Cr
MJ	BIOL 230	3
CG	CHEM 241	3
CG	PHYS 111	3
BR	Breadth Requirement	3
EL	Elective	3
		15

PR	Year 2, Winter	Cr
MJ	BIOL 277	3
MJ	BIOL >299	3
CG/	MATH 240/BIOL >299*	3
MJ		
CG	CHEM 242	3
CG	PHYS 112	3
		15

PR	Year 3, Fall	Cr
MJ	BIOL 364	3
MJ	BIOL 374	3
MJ	BIOL 391	3
CG/	MATH 161/ BIOL >299*	3
MJ		
EL	Elective >199	3
		15

PR	Year 3, Winter	Cr
MJ	BIOL 365	3
MJ	BIOL >299	3
BR	Breadth Requirement	3
EL	Elective >299	6
		15

PR	Year 4, Fall	Cr
MJ	BIOL 424	3
MJ	BIOL >299	3
CG	BCHM 310	3
EL	Electives >199	6
		15

PR	Year 4, Winter	Cr
MJ	BIOL >299	3
EL	Elective >199	9
EL	Elective	3
		15

^{*} Must take MATH 161 or MATH 240.

^{**} Students admitted to the Burman University Scholars program must see the Scholars advisor for course sequence.