

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

	CR REQ	CRS PFX	CRS #	GR	CR
<b>MAJOR REQUIREMENTS - MINIMUM GRADE: C - MINIMUM GPA FOR CONFERRAL: 2.30</b>					
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		
Cellular Biology (Lab Course)	3	BIOL	374		
Introduction to Research	3	BIOL	391		
Speciation	3	BIOL	424		
<b>3 OF THE FOLLOWING</b>	9				
Vertebrate Biology (Lab Course)		BIOL	327		
Histology (Lab Course)		BIOL	340		
Developmental Biology (Lab Course)		BIOL	375		
Immunology (Lab Course)		BIOL	410		
Virology		BIOL	435		
<b>FROM THE FOLLOWING (BIOL &gt;299)</b>	9				
Conservation Biology		BIOL	318		
Boreal Ecology		BIOL	320		
Invertebrate Biology (Lab Course)		BIOL	350		
Tropical Field Biology (Lab Course)		BIOL	360		
Coastal Field Biology		BIOL	362		
Plant Physiology (Lab Course)		BIOL	365		
Northern Field Biology		BIOL	367		
Flora and Fauna of Alberta (Lab Course)		BIOL	415		
Biogeography		BIOL	425		
Protected Area Management		BIOL	430		
Biological Research (1)		BIOL	490		
Seminar in Biological Sciences (1)		BIOL	496		
Other BIOL 3xx, 4xx					
<b>TOTAL</b>	<b>42</b>				

<b>COGNATE REQUIREMENTS - MINIMUM GRADE: D</b>					
Biochemical Molecules (Lab Course)	3	BCHM	310		
Biochemical Processes (Lab Course)	3	BCHM	315		
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)	3	PHYS	112		
<b>1 OF THE FOLLOWING</b>	3				
Elementary Calculus I (recommended)		MATH	161		
Introduction to Statistics		MATH	240		
<b>TOTAL</b>	<b>27</b>				

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

<b>ELECTIVES - MINIMUM GRADE: D</b>					
General Electives >199		18			
Microbiology (3) (Lab Course) (recommended)			BIOL	216	
General Electives >299		3			
General Electives		6			
<b>TOTAL</b>		<b>27</b>			

\* Scholars Program replaces Breadth Requirements. See Scholars Advisor for details.

**BIOLOGY****BIOLOGY - BSc****BIO-MEDICAL TRACK**

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.

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**RECOMMENDED COURSE SEQUENCE\*\*****BSc BIOLOGY: BIO-MEDICAL TRACK**

PR	Year 1, Fall	Cr	PR	Year 1, Winter	Cr
MJ	BIOL 119	3	MJ	BIOL 120	3
CG	CHEM 111	3	CG	CHEM 112	3
BR	Breadth Requirement	3	BR	Breadth Requirement	3
BR	Breadth Requirement	3	BR	Breadth Requirement	3
BR	Breadth Requirement	3	BR	Breadth Requirement	3
		<b>15</b>			<b>15</b>

PR	Year 2, Fall	Cr	PR	Year 2, Winter	Cr
MJ	BIOL 230	3	MJ	BIOL 277	3
CG	CHEM 241	3	CG/ MJ	MATH 240/BIOL >299*	3
CG	PHYS 111	3	CG	CHEM 242	3
BR	Breadth Requirement	3	CG	PHYS 112	3
EL	Elective	3	EL	Elective	3
		<b>15</b>			<b>15</b>

PR	Year 3, Fall	Cr	PR	Year 3, Winter	Cr
MJ	BIOL 364	3	MJ	One of BIOL 327, 340, 375, 410, 435	3
MJ	BIOL 374	3	MJ	BIOL >299	6
MJ	BIOL 391	3	BR	Breadth Requirement	3
CG/ MJ	MATH 161/ BIOL >299*	3	EL	Electives >299	3
EL	Elective >199	3			<b>15</b>
		<b>15</b>			

PR	Year 4, Fall	Cr	PR	Year 4, Winter	Cr
MJ	BIOL 424	3	MJ	One of BIOL 327, 340, 375, 410, 435	3
MJ	One of 327, 340, 375, 410, 435	3	CG	BCHM 315	3
CG	BCHM 310	3	EL	Electives >199	9
EL	Electives >199	6			<b>15</b>
		<b>15</b>			

\* Must take MATH 161 or MATH 240.

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